

Energy Statistics of THAILAND 2011

รายงานสถิติพลังงาน
ของประเทศไทย 2554



สำนักงานนโยบาย
และแผนพลังงาน
กระทรวงพลังงาน

Energy Statistics of THAILAND 2011

รายงานสถิติพลังงาน
ของประเทศไทย 2554



สำนักงานนโยบาย
และแผนพลังงาน
กระทรวงพลังงาน

บทนำ

สำนักงานนโยบายและแผนพลังงาน (สนพ.) เป็นหน่วยงานหนึ่งที่มีบทบาทสำคัญในกระทรวงพลังงาน มีภารกิจหลักในการวางนโยบายและแผนพลังงาน รวมถึงมาตรการในการบริหารจัดการพลังงานของประเทศ โดยคำนึงถึงการพัฒนาเศรษฐกิจ สังคม ควบคู่ไปกับการรักษาสิ่งแวดล้อม

การดำเนินงานดังกล่าวมีความจำเป็นต้องใช้ข้อมูลสนับสนุนจำนวนมาก เพื่อใช้ในการวิเคราะห์และจัดทำข้อเสนอแนะด้านพลังงานแก่ผู้บริหาร ด้วยเหตุนี้ สนพ. จึงได้จัดทำหนังสือรายงานสถิติพลังงานของประเทศไทยขึ้น เพื่อติดตามสถานการณ์พลังงานของประเทศและของโลกอย่างต่อเนื่อง

หนังสือรายงานสถิติพลังงานของประเทศไทย เป็นหนังสือที่ได้มีการจัดทำขึ้นปีละครั้ง โดยเริ่มมีการจัดทำขึ้นครั้งแรกในปี พ.ศ. 2553 เพื่อเป็นการเพิ่มช่องทางในการให้บริการข้อมูลผ่านทางสื่อสิ่งพิมพ์และแผ่น CD ที่สามารถตอบสนองความต้องการของผู้ใช้ได้อย่างรวดเร็ว และมีประสิทธิภาพ หลังจากที่ สนพ. ดำเนินการเผยแพร่หนังสือดังกล่าวออกไป หน่วยงานต่างๆ ทั้งในและต่างประเทศได้ให้การตอบรับเป็นอย่างดี จึงได้ดำเนินการจัดทำต่อเนื่องเป็นปีที่ 2 โดยครั้งนี้ สนพ. ได้รวบรวมข้อมูลตั้งแต่อดีตจนถึงปัจจุบัน (ค.ศ. 1986 ถึง ค.ศ. 2010) ซึ่งครอบคลุมเรื่องพลังงานทุกด้าน ได้แก่ การผลิต การใช้ การนำเข้า การส่งออก ราคาและมูลค่าพลังงาน รวมทั้งข้อมูลปริมาณการปลดปล่อยก๊าซคาร์บอนไดออกไซด์ (CO₂) จากการใช้พลังงาน ซึ่งข้อมูลดังกล่าวเหล่านี้ถูกนำมาใช้เป็นสารสนเทศทางการบริหารพลังงานของไทย โดยเฉพาะเพื่อสนับสนุนการตัดสินใจของผู้บริหารในการติดตามความเคลื่อนไหวสถานการณ์ทางด้านพลังงาน ตลอดจนใช้ในการวิเคราะห์แนวโน้มเพื่อประเมินผลกระทบที่อาจเกิดขึ้นจากการใช้พลังงาน ซึ่งผลการวิเคราะห์จะนำไปสู่การจัดทำข้อเสนอแนะนโยบายและแผนการบริหาร แผนการพัฒนาพลังงานของประเทศ

สนพ. ได้เล็งเห็นประโยชน์และความสำคัญของการเผยแพร่สถิติพลังงานดังกล่าว จึงได้จัดทำหนังสือ “รายงานสถิติพลังงานของประเทศไทย 2554” ขึ้น เพื่อให้บริการข้อมูลพลังงานที่มีความทันสมัยและต่อเนื่องเป็นประจำทุกปี

Introduction

The Energy Policy and Planning Office (EPPO) is a pivotal agency under the Ministry of Energy, being tasked with the development of national energy policies and planning, including measures to manage and administer the energy sector, with due consideration of economic and social development, concurrently with environmental protection. In order to undertake the mentioned tasks, it is crucial to acquire substantial information and data for analysis and development of recommendation on energy issues to be presented to the management. As a consequence of this, EPPO has published a report on energy statistics of Thailand with a view to following up continuously both national and global energy situations.

This report on energy statistics of Thailand is issued annually, with the first one issued in 2010, to be another channel to provide energy information via printed matters and in the form of CD, which is expected to promptly and efficiently respond to the users' needs. After EPPO's first publication and dissemination of the report, there has been favorable response and feedback from concerned agencies/organizations, both domestic and overseas. Therefore, the second issue of such a report is consecutively prepared by EPPO this year, with data collection from the past up to the present (1986–2010), covering all aspects of energy, i.e. production, consumption, import, export, prices and nominal value of energy, including the information about carbon dioxide (CO₂) emissions from the use of energy. The mentioned information/data has much contributed to energy management of the country, particularly in support of decision making of the management based on close follow-ups on energy situation movements, and to the analysis of energy trends to assess the impact which may occur from energy use. The analysis outcome will form the basis for the development of recommendations on the energy policy and management plan as well as the energy development plan of the country.

Recognizing the benefits and importance of energy statistics dissemination, EPPO, therefore, deems it appropriate to publish this “Energy Statistics of Thailand 2011” so as to regularly provide updated energy information on an annual basis.

Contents

Introduction

CHAPTER 1 : ENERGY SITUATION IN 2010

1.1 Primary Energy

Table 1.1-1 :	Production, Consumption and Import (net) of Primary Commercial Energy (BBL/Day Crude Oil Equivalent)	22
Table 1.1-1Y:	Production, Consumption and Import (net) of Primary Commercial Energy (BBL/Day Crude Oil Equivalent)	23
Table 1.1-2Y:	Primary Commercial Energy Production (Physical Unit)	25
Table 1.1-3Y:	Primary Commercial Energy Production (ktoe)	26
Table 1.1-4Y:	Primary Commercial Energy Import (Net) (Physical Unit)	27
Table 1.1-5Y:	Primary Commercial Energy Import (Net) (ktoe)	28
Table 1.1-6Y:	Primary Commercial Energy Consumption (Physical Unit)	29
Table 1.1-7Y:	Primary Commercial Energy Consumption (ktoe)	30

1.2 Final Energy

Table 1.2-1Y:	Final Modern Energy Consumption (Physical Unit)	31
Table 1.2-2Y:	Final Modern Energy Consumption (ktoe)	32

1.3 Energy Reserves

Table 1.3-1:	Energy Reserves	33

CHAPTER 2 : OIL

2.1 Crude Oil/Condensate

2.1.1	Production	
Table 2.1.1-1Y:	Production of Crude Oil	42
Table 2.1.1-2Y:	Production of Condensate	43
2.1.2	Import	
Table 2.1.2-1Y:	Import of Crude Oil Classified by Sources	44
Table 2.1.2-2Y:	Quantity and Value of Petroleum Products Import	45
2.1.3	Export	
Table 2.1.3-1Y:	Quantity and Value of Petroleum Products Export	47

2.2 Refinery

Table 2.2-1Y:	Refining Capacity	49
Table 2.2-2Y:	Material Intake by Refinery	50

2.3 Petroleum Products

2.3.1	Production	
Table 2.3.1-1Y:	Production of Petroleum Products (Million Litres)	51
Table 2.3.1-2Y:	Production of Petroleum Products (Barrels/Day)	52
2.3.2	Consumption/Sale	
Table 2.3.2-1Y:	Sale of Petroleum Products (Million Litres)	53
Table 2.3.2-2Y:	Sale of Petroleum Products (Barrels/Day)	54
2.3.3	Import	
Table 2.3.3-1Y:	Import of Petroleum Products (Million Litres)	55
Table 2.3.3-2Y:	Import of Petroleum Products (Barrels/Day)	56
2.3.4	Export	
Table 2.3.4-1Y:	Export of Petroleum Products (Million Litres)	57
Table 2.3.4-2Y:	Export of Petroleum Products (Barrels/Day)	58

2.4 Demand and Supply

Table 2.4-1Y:	Demand and Supply of Crude Oil and Oil Products	59
Table 2.4-2Y:	Demand and Supply of LPG, Propane and Butane	60

CHAPTER 3 : NATURAL GAS

3.1 Production/Import

Table 3.1-1Y:	Production and Import of Natural Gas	68

3.2 Consumption/Sale

Table 3.2-1Y:	Distribution of NGL	69
Table 3.2-2Y:	Consumption of Natural Gas by Sector	70
Table 3.2-3Y:	Consumption Share of Natural Gas by Sector	71
Table 3.2-4:	Consumption of Compressed Natural Gas (CNG)	72

CHAPTER 4 : LIGNITE/COAL**4.1 Production/Consumption**

Table 4.1-1Y: Production and Consumption of Lignite	80
Table 4.1-2Y: Consumption of Lignite and Coal Classified by Sector (ktoe)	81
Table 4.1-3Y: Consumption of Lignite and Coal Classified by Sector (1,000 Tons)	82

4.2 Import

Table 4.2-1Y: Coal Import	83

CHAPTER 5 : ELECTRICITY**5.1 Generation**

Table 5.1-1Y: Electricity Generation by Fuel Type	94
Table 5.1-2Y: Electricity Generation Classified by Fuel Type	95
Table 5.1-3Y: Peak, Demand and Load Factor	96
Table 5.1-4Y: EGAT Purchased from SPP	97
Table 5.1-5Y: EGAT Purchased from IPP	97

5.2 Consumption/Sale

Table 5.2-1Y: Electricity Consumption in MEA Service Areas (Classified by Tariff)	98
Table 5.2-2Y: Electricity Consumption in PEA Service Areas (Classified by Tariff)	99
Table 5.2-3Y: Electricity Consumption for the Whole Country (Classified by Tariff)	100
Table 5.2-4Y: Electricity Consumption in MEA Service Areas (Classified by Sector)	101
Table 5.2-5Y: Electricity Consumption in PEA Service Areas (Classified by Sector)	102
Table 5.2-6Y: Electricity Consumption for the Whole Country (Classified by Sector)	103

5.3 Fuel Consumption

Table 5.3-1Y: EGAT Fuel Consumption in Power Generation	104

CHAPTER 6 : ENERGY VALUE

Table 6.1-1Y: Expenditure on Final Energy Consumption	110
Table 6.1-2Y: Expenditure on Petroleum Product Consumption	111
Table 6.1-3Y: Value of Energy Import	112
Table 6.1-4Y: Value of Energy Export	113

CHAPTER 7 : ENERGY AND ECONOMICS**7.1 Economics Data**

Table 7.1-1: GDP at Constant 1988 Prices	124
Table 7.1-2: Population	126
Table 7.1-3: Industrial Index	127
Table 7.1-4: Industrial Capacity Utilization Ratios	128
Table 7.1-5: Sale of Vehicles	129
Table 7.1-6: GDP, Energy, Import and Export of Goods	130

7.2 Analysis

Table 7.2-1: Final Energy Consumption per Capita	132
Table 7.2-2: Electricity Consumption per Capita	135

CHAPTER 8 : PETROLEUM PRICES

Table 8.1-1: Rates of Exchange in Bangkok	142
Table 8.1-2Y: Ex-Refinery Prices of Petroleum Products in Thailand	144
Table 8.1-3Y: Oil Fund Levied on Petroleum Products in Thailand	145
Table 8.1-4: Wholesale Prices of Petroleum Products at Refinery in Thailand	146
Table 8.1-5Y: Retail Prices of Petroleum Products in Bangkok	151
Table 8.1-6: Tax and Oil Fund Revenue in Thailand	152

CHAPTER 9 : AIR POLLUTION EMISSION IN THE ENERGY SECTOR

Table 9.1-1Y: CO ₂ Emission by Energy Type	166
Table 9.1-2Y: CO ₂ Emission from Energy Consumption by Sector	167
Table 9.1-3Y: CO ₂ Emission in Power Generation by Energy Type	168
Table 9.1-4Y: CO ₂ Emission in Transport by Energy Type	169
Table 9.1-5Y: CO ₂ Emission in Industry by Energy Type	170
Table 9.1-6Y: CO ₂ Emission in Other Economic Sectors by Energy Type	171
Table 9.1-7Y: CO ₂ Emission by Sector and Energy Type	172

Appendix

Appendix I Monthly Data

CHAPTER 1 : ENERGY SITUATION IN 2010

1.1 Primary Energy

Table 1.1-1M: Primary Commercial Energy Production (Physical Unit)	177
Table 1.1-2M: Primary Commercial Energy Production (ktoe)	180
Table 1.1-3M: Primary Commercial Energy Import (Net) (Physical Unit)	183
Table 1.1-4M: Primary Commercial Energy Import (Net) (ktoe)	186
Table 1.1-5M: Primary Commercial Energy Consumption (Physical Unit)	189
Table 1.1-6M: Primary Commercial Energy Consumption (ktoe)	191

1.2 Final Energy

Table 1.2-1M: Final Modern Energy Consumption (Physical Unit)	193
Table 1.2-2M: Final Modern Energy Consumption (ktoe)	196

CHAPTER 2 : OIL

2.1 Crude Oil/Condensate

2.1.1 Production	
Table 2.1.1-1M: Production of Crude Oil	200
Table 2.1.1-2M: Production of Condensate	203
2.1.2 Imports	
Table 2.1.2-1M: Import of Crude Oil Classified by Sources	206

2.2 Refinery

Table 2.2-1M: Material Intake by Refinery	207

2.3 Petroleum Products

2.3.1 Production	
Table 2.3.1-1M: Production of Petroleum Products (Million Litres)	210
Table 2.3.1-2M: Production of Petroleum Products (Barrels/Day)	213
2.3.2 Consumption/Sale	
Table 2.3.2-1M: Sale of Petroleum Products (Million Litres)	216
Table 2.3.2-2M: Sale of Petroleum Products (Barrels/Day)	219
2.3.3 Import	
Table 2.3.3-1M: Import of Petroleum Products (Million Litres)	222
Table 2.3.3-2M: Import of Petroleum Products (Barrels/Day)	225
2.3.4 Export	
Table 2.3.4-1M: Export of Petroleum Products (Million Litres)	228
Table 2.3.4-2M: Export of Petroleum Products (Barrels/Day)	231

2.4 Demand and Supply

Table 2.4-1M: Demand and Supply of Crude Oil and Oil Products	234
Table 2.4-2M: Demand and Supply of LPG, Propane and Butane	237

CHAPTER 3 : NATURAL GAS

3.1 Production/Import

Table 3.1-1M: Production and Import of Natural Gas	241

3.2 Consumption/Sale

Table 3.2-1M: Distribution of NGL	244
Table 3.2-2M: Consumption of Natural Gas by sector	247
Table 3.2-3M: Consumption Share of Natural Gas by sector	250

CHAPTER 4 : LIGNITE/COAL

4.1 Production/Consumption

Table 4.1-1M: Production and Consumption of Lignite	254

4.2 Import

Table 4.2-1M: Coal Import	257

CHAPTER 5 : ELECTRICITY**5.1 Generation**

Table 5.1-1M: Electricity Generation by Fuel Type	259
Table 5.1-2M: Electricity Generation Classified by Fuel Type	262
Table 5.1-3M: Peak, Demand and Load Factor	265
Table 5.1-4M: EGAT Purchased from SPP	267
Table 5.1-5M: EGAT Purchased from IPP	269

5.2 Consumption/Sale

Table 5.2-1M: Electricity Consumption in MEA Service Areas (Classified by Tariff)	271
Table 5.2-2M: Electricity Consumption in PEA Service Areas (Classified by Tariff)	274
Table 5.2-3M: Electricity Consumption for the Whole Country (Classified by Tariff)	277
Table 5.2-4M: Electricity Consumption in MEA Service Areas (Classified by Sector)	280
Table 5.2-5M: Electricity Consumption in PEA Service Areas (Classified by Sector)	283
Table 5.2-6M: Electricity Consumption for the Whole Country (Classified by Sector)	286

5.3 Fuel Consumption

Table 5.3-1M: EGAT Fuel Consumption in Power Generation	289

5.4 Import and Export

Table 5.4-1M: Import of Electricity	290
Table 5.4-2M: Export of Electricity	291

CHAPTER 6 : ENERGY VALUE

Table 6.1-1M: Expenditure on Final Energy Consumption	293
Table 6.1-2M: Expenditure on Petroleum Product Consumption	295
Table 6.1-3M: Value of Energy Import	297
Table 6.1-4M: Value of Energy Export	299

CHAPTER 7 : PETROLEUM PRICES

Table 7.1-1M: Ex-Refinery Prices of Petroleum Products in Thailand	302
Table 7.1-2M: Oil Fund Levied on Petroleum Products in Thailand	304
Table 7.1-3M: Retail Prices of Petroleum Products in Bangkok	306

CHAPTER 8 : AIR POLLUTION EMISSION IN THE ENERGY SECTOR

Table 8.1-1M: CO ₂ Emission by Energy Type	312
Table 8.1-2M: CO ₂ Emission from Energy Consumption by Sector	314
Table 8.1-3M: CO ₂ Emission in Power Generation by Energy Type	316
Table 8.1-4M: CO ₂ Emission in Transport by Energy Type	318
Table 8.1-5M: CO ₂ Emission in Industry by Energy Type	320
Table 8.1-6M: CO ₂ Emission in Other Economic Sectors by Energy Type	322

Appendix II Conversion Factors and Abbreviations

Conversion Factors	326
Abbreviations	328

*Note : M = Monthly
Y = Yearly





● ● Chapter 1

ENERGY SITUATION IN 2010

● ● บทที่ 1

สถานการณ์พลังงานปี 2553



บทที่ 1

สถานการณ์พลังงานปี 2553

ภาพรวมพลังงานปี 2553 จากรายงานของสำนักงานคณะกรรมการเศรษฐกิจและสังคมแห่งชาติ (สศช.) ในปี 2553 ขยายตัวร้อยละ 7.8 โดยมีแรงสนับสนุนจากการฟื้นตัวของเศรษฐกิจโลก และความมั่นใจของนักลงทุน ทำให้การส่งออก การลงทุน และการบริโภคของภาคเอกชนยังคงขยายตัว ส่งผลให้การใช้พลังงานเชิงพาณิชย์ขั้นต้นเพิ่มขึ้นร้อยละ 7.2 อยู่ที่ระดับ 1,783 เทียบเท่าพันบาร์เรล น้ำมันดิบต่อวัน การใช้ก๊าซธรรมชาติเพิ่มขึ้นร้อยละ 15.0 เนื่องจากการนำไปใช้ในภาคอุตสาหกรรมและในรถยนต์ NGV เพิ่มขึ้นอย่างมาก ส่วนการใช้น้ำมันมีการใช้เพิ่มขึ้นเพียงร้อยละ 1.5 เนื่องจากการใช้ก๊าซ NGV ทดแทนน้ำมันเบนซินและดีเซล การใช้ถ่านหินเพิ่มขึ้นร้อยละ 3.1 การใช้ลิกไนต์เพิ่มขึ้นเพียงเล็กน้อยคือร้อยละ 0.7 ไฟฟ้าพลังน้ำและไฟฟ้านำเข้ามีการใช้เพิ่มขึ้นร้อยละ 2.8 เนื่องจากในปีนี้มีไฟฟ้านำเข้าจากแหล่งน้ำเกิน 2 ใน สปป.ลาวเข้ามาในระบบตั้งแต่เดือนมีนาคม จำนวน 948 เมกะวัตต์

การใช้พลังงานเชิงพาณิชย์ขั้นต้น

หน่วย : เทียบเท่าพันบาร์เรลน้ำมันดิบ/วัน

	2549	2550	2551	2552	2553
การใช้	1,545	1,604	1,618	1,663	1,783
น้ำมัน	674	667	634	643	652
ก๊าซธรรมชาติ	579	615	648	682	784
ถ่านหิน	140	180	199	205	211
ลิกไนต์	108	99	101	98	99
พลังน้ำ/ไฟฟ้านำเข้า	44	43	36	35	36
อัตราการเปลี่ยนแปลง (%)					
การใช้	1.6	3.8	0.9	2.8	7.2
น้ำมัน	-2.3	-1.0	-5.0	1.4	1.5
ก๊าซธรรมชาติ	2.3	6.2	5.4	5.2	15.0
ถ่านหิน	30.9	28.5	10.6	2.9	3.1
ลิกไนต์	-14.0	-7.8	2.4	-3.4	0.7
พลังน้ำ/ไฟฟ้านำเข้า	35.2	-2.5	-17.4	-1.1	2.8

น้ำมันดิบ การนำเข้าอยู่ที่ระดับ 816 พันบาร์เรลต่อวัน เพิ่มขึ้นร้อยละ 1.6 คิดเป็นมูลค่า 751 พันล้านบาท คิดเป็นมูลค่าที่เพิ่มขึ้นร้อยละ 20.6 เนื่องจากราคาน้ำมันดิบเพิ่มขึ้นร้อยละ 28.4 จากราคาเฉลี่ยน้ำมันดิบนำเข้า 61.90 เหรียญสหรัฐต่อบาร์เรลในปี 2552 มาอยู่ที่ระดับ 79.48 เหรียญสหรัฐต่อบาร์เรล ในปี 2553

Chapter 1

Energy Situation in 2010



Overview of Energy Situation in 2010. According to the report of the Office of the National Economic and Social Development Board (NESDB), Thailand's economic growth rate in 2010 was 7.8% owing to the global economic recovery and investors' confidence, which boosted exports, investment as well as consumption of the private sector, and hence an increase of 7.2% in commercial primary energy consumption, accounting for a demand of 1,783 thousand barrels of crude oil equivalent per day. Natural gas consumption highly increased by 15.0% as the use in the industrial sector and by automobiles using NGV (natural gas for vehicles or compressed natural gas) substantially increased, while oil consumption increased only by 1.5% because of greater use of NGV in place of gasoline and diesel. Coal consumption increased by 3.1% and lignite consumption slightly increased by 0.7% whereas hydropower & imported electricity consumption increased by 2.8% as early in the year, as from March, a new source of imported electricity, i.e. Namthuen 2 project in Lao PDR, started supplying to the grid, with an imported capacity of 948 MW.

Primary Commercial Energy Consumption

Unit : KBD (Crude Oil Equivalent)

	2006	2007	2008	2009	2010
Consumption	1,545	1,604	1,618	1,663	1,783
Petroleum	674	667	634	643	652
Natural Gas	579	615	648	682	784
Coal	140	180	199	205	211
Lignite	108	99	101	98	99
Hydro/Imported Electricity	44	43	36	35	36
Growth rate (%)					
Consumption	1.6	3.8	0.9	2.8	7.2
Petroleum	-2.3	-1.0	-5.0	1.4	1.5
Natural Gas	2.3	6.2	5.4	5.2	15.0
Coal	30.9	28.5	10.6	2.9	3.1
Lignite	-14.0	-7.8	2.4	-3.4	0.7
Hydro/Imported Electricity	35.2	-2.5	-17.4	-1.1	2.8

Crude Oil. The volume of crude oil import stood at 816 thousand barrels per day (KBD), an increase of 1.6%. The import was worth 751 billion Baht (approx. US\$ 24.2 billion, at a rate of 31THB/US\$), an increase in nominal value by 20.6% because crude oil prices highly increased by 28.4%, from an average import price of US\$ 61.90/barrel in 2009 to US\$ 79.48/barrel in 2010.

การนำเข้าน้ำมันดิบเพิ่มขึ้น 1.6%

	2551	2552	2553	อัตราการเปลี่ยนแปลง (%)		
				2551	2552	2553
ปริมาณ (พันบาร์เรล/วัน)	812	803	816	0.9	-1.0	1.6
มูลค่า (พันล้านบาท)	1,003	623	751	40.1	-37.9	20.6
ราคา (ดอลลาร์/บาร์เรล)	101.44	61.90	79.48	43.8	-39.0	28.4

น้ำมันสำเร็จรูป การใช้น้ำมันสำเร็จรูปเพิ่มขึ้นร้อยละ 1.9 โดยดีเซลเพิ่มขึ้นร้อยละ 0.1 เนื่องจากการขยายตัวของภาคเศรษฐกิจ การใช้ LPG เพิ่มขึ้นร้อยละ 10.0 เนื่องจากการใช้ของภาคอุตสาหกรรมเพิ่มขึ้น น้ำมันเครื่องบินเพิ่มขึ้นร้อยละ 6.3 เนื่องจากการส่งเสริมการท่องเที่ยวมากขึ้นในปีนี้ ในขณะที่การใช้เบนซินลดลงร้อยละ 1.4 อันเป็นผลจากราคาขายปลีกเฉลี่ยในปีนี้สูงกว่าปี 2552 และปริมาณการใช้น้ำมันเตาใกล้เคียงกับปีที่ผ่านมา โดยมีการใช้ลดลงเล็กน้อยคิดเป็นอัตราที่ลดลงร้อยละ 4.2

การใช้น้ำมันสำเร็จรูป

หน่วย : ล้านลิตร

ชนิด	2550	2551	2552	2553	อัตราการเปลี่ยนแปลง (%)			
					2550	2551	2552	2553
เบนซิน	7,336.8	7,120.6	7,524.4	7,416.8	1.6	-2.9	5.6	-1.4
ธรรมดา 91	4,711.6	4,311.4	4,291.6	4,509.2	3.3	-8.4	-0.4	5.0
พิเศษ	2,625.2	2,809.2	3,232.8	2,907.6	-1.1	7.0	15.0	-10.0
- แก๊สโซฮอล์	1,518.5	2,468.2	3,055.7	2,831.0	28.1	62.5	23.8	-7.3
- 95	1,106.7	341.0	177.1	76.6	-24.7	-69.1	-48.0	-56.7
ก๊าด	18.2	15.7	17.6	15.3	-7.5	-13.7	12.5	-13.5
ดีเซล	18,709.7	17,643.0	18,465.3	18,480.1	1.8	-5.7	4.6	0.1
เครื่องบิน	4,931.8	4,636.5	4,431.5	4,711.7	9.1	-5.9	-4.4	6.3
น้ำมันเตา	4,221.5	3,287.3	2,730.9	2,615.2	-27.8	-22.1	-16.9	-4.2
LPG**	5,812.4	6,828.4	6,894.3	7,587.3	14.5	17.4	0.9	10.0
รวม	41,030.4	39,531.4	40,063.9	40,826.2	0.01	-3.6	1.3	1.9

** ไม่รวมการใช้ LPG ที่เป็น Feed stocks ในปิโตรเคมี

Crude Oil Import Increased by 1.6%

	2008	2009	2010	Growth Rate (%)		
				2008	2009	2010
Quantity (KBD/day)	812	803	816	0.9	-1.0	1.6
Worth (Billion Baht)	1,003	623	751	40.1	-37.9	20.6
Price (US\$/BBL)	101.44	61.90	79.48	43.8	-39.0	28.4

Petroleum Products. The overall demand of petroleum products increased by 1.9%. Diesel consumption increased by 0.1% due to the economic growth, while LPG consumption rose by 10.0% resulting from growing demand in the industrial sector. Similarly, jet petroleum demand increased by 6.3% due to successful tourism promotion in this year. However, gasoline consumption decreased by 1.4% as its average detail price in 2010 was higher than that in 2009; while fuel oil consumption was close to that in the previous year, with a slight decrease by 4.2%.

Petroleum Product Consumption

Unit : Million Litres

Energy Type	2007	2008	2009	2010	Growth Rate (%)			
					2007	2008	2009	2010
Gasoline	7,336.8	7,120.6	7,524.4	7,416.8	1.6	-2.9	5.6	-1.4
Regular 91	4,711.6	4,311.4	4,291.6	4,509.2	3.3	-8.4	-0.4	5.0
Premium	2,625.2	2,809.2	3,232.8	2,907.6	-1.1	7.0	15.0	-10.0
– Gasohol	1,518.5	2,468.2	3,055.7	2,831.0	28.1	62.5	23.8	-7.3
– 95	1,106.7	341.0	177.1	76.6	-24.7	-69.1	-48.0	-56.7
Kerosene	18.2	15.7	17.6	15.3	-7.5	-13.7	12.5	-13.5
Diesel	18,709.7	17,643.0	18,465.3	18,480.1	1.8	-5.7	4.6	0.1
Jet	4,931.8	4,636.5	4,431.5	4,711.7	9.1	-5.9	-4.4	6.3
Fuel oil	4,221.5	3,287.3	2,730.9	2,615.2	-27.8	-22.1	-16.9	-4.2
LPG**	5,812.4	6,828.4	6,894.3	7,587.3	14.5	17.4	0.9	10.0
Total	41,030.4	39,531.4	40,063.9	40,826.2	0.01	-3.6	1.3	1.9

** Excluding LPG use as feedstock in petrochemical industry

● **น้ำมันเบนซิน** การใช้น้ำมันเบนซินเฉลี่ยอยู่ที่ระดับ 20.3 ล้านลิตรต่อวัน หรือลดลงร้อยละ 1.4 ทั้งนี้ปริมาณการใช้น้ำมันเบนซินน้อยที่สุดในเดือนพฤษภาคม 2553 ซึ่งเป็นช่วงเดือนที่มีการชุมนุมทางการเมืองที่รุนแรง อีกทั้งราคาน้ำมันเบนซินเฉลี่ยในปีนี้สูงกว่าปี 2552 และผู้ใช้รถบางส่วนเปลี่ยนไปใช้ NGV แทน ซึ่งเป็นสาเหตุสำคัญที่ทำให้การใช้น้ำมันเบนซินในปีนี้ลดลง โดยในปี 2553 การใช้เบนซินธรรมดา มีสัดส่วนร้อยละ 61 และเบนซินพิเศษ มีสัดส่วนร้อยละ 39

● **แก๊สโซฮอล์** ในปี 2553 มีสัดส่วนการใช้มากที่สุด คิดเป็นร้อยละ 59 ของปริมาณการใช้เบนซินทั้งหมด โดยมีปริมาณการใช้อยู่ที่ระดับ 12.0 ล้านลิตรต่อวัน หรือลดลงร้อยละ 2.0 เป็นการใช้อีก 95 อยู่ที่ระดับ 7.7 ล้านลิตรต่อวัน ลดลงร้อยละ 7.3 ส่วนการใช้แก๊สโซฮอล์ 91 เพิ่มขึ้นสูงมาก เนื่องจากรัฐบาลได้มีนโยบายส่งเสริมการใช้แก๊สโซฮอล์ 91 รวมทั้งในช่วงปลายปีรัฐบาลมีนโยบายส่งเสริมการใช้พลังงานทดแทนเพื่อลดการนำเข้าโดยปรับลดเงินส่งเข้ากองทุนน้ำมันเชื้อเพลิง มีผลให้ราคาขายปลีกแก๊สโซฮอล์ 91 และ แก๊สโซฮอล์ 95 (E20) ถูกลง เพื่อเป็นการจูงใจผู้ใช้น้ำมัน

● **น้ำมันดีเซล** มีการใช้เฉลี่ย 50.6 ล้านลิตรต่อวัน เพิ่มขึ้นร้อยละ 0.1 โดยปริมาณการใช้ช่วงต้นปี อยู่ที่ระดับใกล้เคียงกับปลายปี 2552 ต่อเนื่องมาจนถึงช่วงกลางปีจึงมีแนวโน้มลดลง เนื่องจากสิ้นสุดช่วงฤดูการเก็บเกี่ยวและเป็นช่วงฤดูฝน การใช้น้ำมันดีเซลเริ่มปรับตัวสูงขึ้นอีกครั้งในช่วงเดือนพฤศจิกายน เนื่องจากในช่วงปลายปีรัฐบาลได้มีนโยบายช่วยเหลือเพื่อลดภาระภาคประชาชนโดยลดเงินจัดส่งเข้ากองทุนน้ำมันเชื้อเพลิงในช่วงดังกล่าว ซึ่งราคาน้ำมันแพงขึ้น ประกอบกับเป็นช่วงฤดูหนาวซึ่งเป็นฤดูกาลแห่งการท่องเที่ยว

● **ไบโอดีเซล (B5)** ปริมาณการจำหน่ายอยู่ที่ระดับ 19.3 ล้านลิตรต่อวัน หรือลดลงร้อยละ 13.4 โดยปริมาณการใช้ช่วงต้นปีอยู่ที่ระดับใกล้เคียงกับปลายปี 2552 ต่อเนื่องมาจนถึงช่วงกลางปีจึงมีแนวโน้มลดลง เนื่องจากการเกิดปัญหาความไม่สงบทางการเมืองในเดือนพฤษภาคม ทำให้การเดินทางของประชาชนลดลง ประกอบกับราคาน้ำมันไบโอดีเซล (B5) ปีนี้ไม่แตกต่างจากราคาดีเซลมากนัก จึงไม่เกิดแรงจูงใจต่อประชาชนที่จะหันไปใช้น้ำมันไบโอดีเซล (B5)

● **LPG โพรเพน และบิวเทน** ปริมาณการใช้เพิ่มขึ้นร้อยละ 14.1 อยู่ที่ระดับ 20.8 ล้านลิตรต่อวัน โดยมีการใช้เพิ่มขึ้นในทุกสาขา สาเหตุหนึ่งมาจากการที่รัฐบาลยังคงมาตรการตรึงราคา LPG ให้อยู่ในระดับคงที่ ประกอบกับภาวะเศรษฐกิจที่ดี จึงทำให้ปริมาณการใช้ในอุตสาหกรรมเพิ่มสูงขึ้นถึงร้อยละ 31.3 และใช้เป็นวัตถุดิบในอุตสาหกรรมปิโตรเคมีเพิ่มขึ้นร้อยละ 23.5 ในขณะที่การใช้ LPG ในรถยนต์ปี 2553 เพิ่มขึ้นเล็กน้อยคิดเป็นร้อยละ 2.1

● **Gasoline.** The volume of gasoline consumption was at an average of 20.3 million litres/day, a decrease of 1.4%. The demand was lowest in May 2010 due to the eruption of political riots in that month. In addition, the average retail price in 2010 was higher than that in 2009, causing a number of car users to shift to use NGV instead, which was a major factor of the drop in gasoline demand. In 2010, regular gasoline demand accounted for a share of 61% and premium gasoline demand accounted for the remaining 39%.

● **Gasohol.** In 2010, this product accounted for the largest share of the total gasoline consumption, i.e. 59%, with a demand of 12.0 million litres/day, or a decrease of 2.0%. The demand of Gasohol 95 (Octane 95 gasohol) was at a rate of 7.7 million litres/day, a decrease of 7.3%, while the use of Gasohol 91 (Octane 91 gasohol) highly increased owing to the government's promotion policy. Moreover, towards the end of the year, the government intensified the promotion of alternative energy utilization to reduce oil import, by reducing the rates of contributions (collected from domestic oil distribution) to the Oil Fund, resulting in cheaper retail prices of Gasohol 91 and Gasohol 95 (E20) – with ethanol 20% by volume – to induce oil consumers to opt for gasohol.

● **Diesel.** The average consumption was at a rate of 50.6 million litres/day, an increase of 0.1%. In early 2010, the demand was close to that in late 2009 and remained constant till the middle of the year when the demand began to drop because the harvest time ended and the rainy season began. Diesel demand rose again in November due to the government's policy introduced during that period to alleviate the impact of oil price hikes on people's cost of living by reducing the rates of contributions to the Oil Fund, coupled with the high season of tourism during the wintertime.

● **Biodiesel (B5).** The distribution volume of biodiesel B5 was at a rate of 19.3 million litres/day, decreasing by 13.4%. Early in the year the demand was close to that in the last quarter of 2009 and remained constant till the middle of the year when the demand began to drop due to the political unrest in May, causing people to travel less. Another factor was that the price of biodiesel B5 this year was not much different from the diesel price, which was not encouraging for people to shift to use biodiesel B5.

● **LPG, Propane and Butane.** The demand growth rate was 14.1%, accounting for a consumption volume of 20.8 million litres/day, as the demand increased in all sectors. This was partly due to the LPG price stabilization by the government coupled with good economic conditions; hence a considerable increase of 31.3% in the industrial sector demand and 23.5% in the use as petrochemical feedstock, while LPG demand in the transport sector in 2010 slightly increased by 2.1%.

อุปทานและอุปสงค์ของ LPG โพรเพน และบิวเทน

หน่วย : พันตัน

	2549	2550	2551	2552	2553	อัตราการเปลี่ยนแปลง(%)		สัดส่วน (%)
						2552	2553	2553
อุปทาน	4,159	4,469	4,803	5,217	6,061	8.6	16.2	100.0
- การผลิต	4,159	4,469	4,351	4,463	4,412	2.6	-1.1	72.8
- นำเข้า			452	753	1,649	66.6	118.9	27.2
อุปสงค์	4,094	4,393	4,810	5,223	5,968	8.6	14.3	
(การใช้ + ส่งออก)								
- การใช้	3,518	4,116	4,788	5,208	5,943	8.8	14.1	100.0
ครัวเรือน	1,721	1,884	2,124	2,231	2,435	5.0	9.2	41.0
อุตสาหกรรม	511	602	658	586	769	-11.0	31.3	12.9
รถยนต์	459	572	776	666	680	-14.1	2.1	11.4
อุตสาหกรรมปิโตรเคมี	708	807	903	1,289	1,592	42.8	23.5	26.8
ใช้เอง	119	251	328	435	466	32.5	7.1	7.8
- ส่งออก	576	278	21	15	25	-29.0	63.3	
สมดุล (อุปทาน - อุปสงค์)	65	76	-6	-6	94			

● การใช้น้ำมันในภาคขนส่งทางบก อยู่ที่ระดับ 64.7 ล้านลิตรต่อวันเทียบเท่าน้ำมันดิบ เพิ่มขึ้นจากปีก่อนร้อยละ 6.9 โดยการใช้ น้ำมันดีเซลอยู่ในระดับใกล้เคียงกับ ปี 2552 ในขณะที่การใช้ น้ำมันเบนซินลดลงร้อยละ 1.4 ตามปัจจัยราคาขายปลีกน้ำมันเบนซินปีนี้ที่สูงกว่าปี 2552 ก่อนข้างมาก ประกอบกับในช่วงปลายปีเกิดภาวะอุทกภัยในบางพื้นที่ จึงมีผลทำให้ปริมาณการใช้ลดลง ส่วนการใช้ LPG เพิ่มขึ้นมากเมื่อเทียบกับปีที่ผ่านมา และมีการใช้ NGV เพิ่มขึ้นอย่างมากถึงร้อยละ 26.7 เนื่องจากนโยบาย ส่งเสริมการใช้ NGV ของภาครัฐ ประกอบกับปัจจัยเสริมจากราคาน้ำมันเบนซินและดีเซลที่เพิ่มสูงขึ้นตั้งแต่ ต้นปี 2552 ซึ่งส่งผลให้ประชาชนบางส่วนหันมาติดตั้งเครื่องยนต์ NGV มากขึ้น

● ก๊าซธรรมชาติ ปริมาณการใช้อยู่ที่ระดับ 4,039 ล้านลูกบาศก์ฟุตต่อวัน เพิ่มขึ้นร้อยละ 13.3 เนื่องจากมีการใช้ในทุกสาขาเพิ่มขึ้น โดยก๊าซธรรมชาติถูกนำไปใช้ในภาคการผลิตต่างๆ ได้แก่ การผลิต ไฟฟ้า คิดเป็นสัดส่วนร้อยละ 68 ใช้ในโรงแยกก๊าซร้อยละ 16 ใช้ในอุตสาหกรรมร้อยละ 12 และใช้ใน รถยนต์ร้อยละ 4

Supply and Demand of LPG, Propane and Butane

Unit : Thousand Tons

	2006	2007	2008	2009	2010	Growth Rate (%)		Share (%)
						2009	2010	2010
Supply	4,159	4,469	4,803	5,217	6,061	8.6	16.2	100.0
– Production	4,159	4,469	4,351	4,463	4,412	2.6	-1.1	72.8
– Import			452	753	1,649	66.6	118.9	27.2
Demand	4,094	4,393	4,810	5,223	5,968	8.6	14.3	
(Consumption + Export)								
– Consumption	3,518	4,116	4,788	5,208	5,943	8.8	14.1	100.0
Household	1,721	1,884	2,124	2,231	2,435	5.0	9.2	41.0
Industry	511	602	658	586	769	-11.0	31.3	12.9
Automobile	459	572	776	666	680	-14.1	2.1	11.4
Petrochemical	708	807	903	1,289	1,592	42.8	23.5	26.8
Own use	119	251	328	435	466	32.5	7.1	7.8
– Export	576	278	21	15	25	-29.0	63.3	
Balance (Supply-Demand)	65	76	-6	-6	94			

● **Oil Consumption in Land Transport.** The consumption in this sector was at a rate of 64.7 million litres of crude oil equivalent per day, increasing by 6.9% compared with the previous year. The volume of diesel consumption was close to that in 2009 while gasoline consumption dropped by 1.4% as retail gasoline prices in this year were much higher than the prices in 2009; besides, there were floods in certain areas, causing the drop in demand. As for LPG, the demand sharply increased when compared with the demand in the previous year. NGV demand also increased highly by 26.7% as a result of the government's promotion policy. Furthermore, the impact of increasing prices of gasoline and diesel since early 2009 also contributed to a greater number of consumers shifting to installation of NGV engines.

● **Natural Gas.** The consumption was at a rate of 4,039 million cubic feet per day (MMscfd), an increase of 13.3%, as the demand increased in all sectors. Natural gas was used in various manufacturing sectors, i.e. electricity generation, holding a share of 68%; gas separation plants, 16%; industry, 12%; and transportation (NGV), 4%.

การใช้ก๊าซธรรมชาติรายสาขา

หน่วย : ล้านลูกบาศก์ฟุต/วัน

สาขา	2548	2549	2550	2551	2552	2553
ผลิตไฟฟ้า	2,242	2,257	2,346	2,423	2,435	2,728
โรงแยกก๊าซ	491	527	572	583	599	652
อุตสาหกรรม	258	291	347	361	387	478
รถยนต์ (NGV)	6	11	24	77	143	181
รวม	2,997	3,086	3,288	3,444	3,564	4,039

สัดส่วนการใช้ก๊าซธรรมชาติ

หน่วย : %

สาขา	2548	2549	2550	2551	2552	2553
ผลิตไฟฟ้า	75	73	71	70	68	68
โรงแยกก๊าซ	16	17	17	17	17	16
อุตสาหกรรม	9	9	11	11	11	12
รถยนต์ (NGV)	0.2	0.4	1	2	4	4
รวม	100	100	100	100	100	100

● **ลิแกไนต์/ถ่านหิน** การใช้อยู่ที่ระดับ 35 ล้านตัน เพิ่มขึ้นจากปี 2552 (คิดจากค่าความร้อน) ร้อยละ 2.3 ประกอบด้วยการใช้ลิแกไนต์ 18 ล้านตัน และถ่านหินนำเข้า 17 ล้านตัน เป็นการใช้ลิแกไนต์ในภาคการผลิตไฟฟ้าของ กฟผ. จำนวน 16 ล้านตัน ที่เหลือจำนวน 2 ล้านตัน ถูกนำไปใช้ในภาคอุตสาหกรรมต่างๆ ได้แก่ การผลิตปูนซีเมนต์ กระดาษ อุตสาหกรรมอาหาร และอื่นๆ

● **กำลังการผลิตติดตั้งไฟฟ้า** ณ เดือนธันวาคม 2553 อยู่ที่ 30,920 เมกะวัตต์ ความต้องการไฟฟ้าสูงสุดเกิดขึ้นเมื่อวันจันทร์ที่ 10 พฤษภาคม เวลา 14.00 น. ที่ระดับ 24,630 เมกะวัตต์ สูงกว่าความต้องการไฟฟ้าสูงสุดของปี 2552 ซึ่งอยู่ที่ระดับ 22,596 เมกะวัตต์ อยู่ 2,034 เมกะวัตต์ หรือคิดเป็นร้อยละ 9.0

● **การผลิตไฟฟ้า** ปริมาณการผลิตและการรับซื้อของ กฟผ. มีจำนวน 163,668 กิกะวัตต์ชั่วโมง เพิ่มขึ้นจากปีก่อนร้อยละ 10.3 โดยมีสัดส่วนการผลิตไฟฟ้าจากเชื้อเพลิงชนิดต่างๆ ดังนี้ ก๊าซธรรมชาติ ร้อยละ 72 ลิแกไนต์/ถ่านหิน ร้อยละ 18 พลังน้ำ ร้อยละ 3 นำเข้า ร้อยละ 4 พลังงานหมุนเวียน ร้อยละ 2 และน้ำมัน ร้อยละ 0.3

Natural Gas Consumption by sector

Unit : MMscfd

Sector	2005	2006	2007	2008	2009	2010
Power Generation	2,242	2,257	2,346	2,423	2,435	2,728
GSP	491	527	572	583	599	652
Industry	258	291	347	361	387	478
Transportation (NGV)	6	11	24	77	143	181
Total	2,997	3,086	3,288	3,444	3,564	4,039

Consumption Share

Unit : %

Sector	2005	2006	2007	2008	2009	2010
Power Generation	75	73	71	70	68	68
GSP	16	17	17	17	17	16
Industry	9	9	11	11	11	12
Transportation (NGV)	0.2	0.4	1	2	4	4
Total	100	100	100	100	100	100

● **Lignite/Coal.** The demand in 2010 totaled 35 million tons, increasing by 2.3% from the previous year (based on the calorific value), divided into lignite and imported coal at 18 and 17 million tons respectively. The use of lignite for power generation by EGAT totaled 16 million tons, and the remaining two million tons were used in various industries, i.e. cement manufacturing, paper, food industry, etc.

● **Installed Electricity Capacity.** As of December 2010, the total installed capacity stood at 30,920 megawatts (MW). The peak load occurred on Monday, 10 May, at 14.00 hrs, reaching 24,630 MW – an increase of 2,034 MW or 9.0% from the peak load in 2009 which was at 22,596 MW.

● **Electricity Generation.** The generation and purchase of electricity by EGAT in 2010 totaled 163,668 gigawatt-hours (GWh), increasing by 10.3% from the previous year. The shares of fuel used for electricity generation were as follows: natural gas, 72%; lignite/coal, 18%; hydropower, 3%; imported electricity, 4%; renewable energy, 2%; and oil, 0.3%.

● **การใช้ไฟฟ้า** อยู่ที่ระดับ 149,301 กิกะวัตต์ชั่วโมง เพิ่มขึ้นร้อยละ 10.5 โดยการใช้ไฟฟ้าตั้งแต่ต้นปีมีแนวโน้มเพิ่มขึ้น เนื่องจากในช่วงต้นปีเศรษฐกิจฟื้นตัวต่อเนื่องจากปลายปี 2552 และเริ่มชะลอตัวลงในไตรมาสที่สองและสามจากการบริโภคภาคเอกชนและการส่งออกที่ได้รับผลกระทบจากค่าเงินบาทที่แข็งค่าขึ้น ผลกระทบจากการชุมนุมทางการเมืองที่ทำให้การใช้ไฟฟ้าในกลุ่มห้างสรรพสินค้าลดลง อุตสาหกรรมการผลิตอาหารชะลอตัวลงเนื่องจากวัตถุดิบในการผลิตจากภาคการเกษตรลดลงตามฤดูกาล และในช่วงปลายปีมีอุทกภัยเกิดขึ้นในหลายพื้นที่ทำให้การใช้ไฟฟ้าลดลง ประกอบกับเริ่มเข้าสู่ช่วงฤดูหนาว

ปริมาณการใช้ไฟฟ้ารายสาขา

หน่วย : กิกะวัตต์ชั่วโมง

สาขา	2550	2551	2552	2553	อัตราการเปลี่ยนแปลง(%)	
					2552	2553
บ้านและที่อยู่อาศัย	27,938	28,691	30,257	33,217	5.5	9.8
ธุรกิจ	19,991	21,052	21,341	23,004	1.4	7.8
อุตสาหกรรม	64,553	64,148	60,874	67,952	-5.1	11.7
เกษตรกรรม	268	281	318	335	12.9	5.5
อื่นๆ	20,363	21,348	22,391	24,793	4.9	10.7
รวม	133,113	135,520	135,181	149,301	-0.3	10.5

● **ค่าเอฟที** ในปีนี้ไม่มีการเปลี่ยนแปลงเนื่องจากนโยบายของรัฐบาล ค่าเอฟทีจึงยังคงอยู่ที่ระดับเดิมคือ 92.55 สตางค์/หน่วย

● **Electricity Consumption.** The consumption in 2010 stood at 149,301 GWh, an increase of 10.5%. The demand had been on the rise since the beginning of the year due to the economic recovery which continued from the end of 2009 and then began to slow down in the second and third quarters of the year as a result of the drop in the private sector consumption and exports caused by the appreciation of Thai Baht as well as inner-city political riots which caused a decrease in electricity demand by the department store cluster. Moreover, there was a slowdown in the food manufacturing industry as a result of seasonal decrease in agricultural feedstock coupled with floods in many areas during the last quarter of the year. Additionally, the period was the beginning of winter, so the overall electricity consumption decreased

Electricity Consumption by Sector

Unit : GWh

Sector	2007	2008	2009	2010	Growth rate (%)	
					2009	2010
Residential	27,938	28,691	30,257	33,217	5.5	9.8
Commercial	19,991	21,052	21,341	23,004	1.4	7.8
Industry	64,553	64,148	60,874	67,952	-5.1	11.7
Agriculture	268	281	318	335	12.9	5.5
Others	20,363	21,348	22,391	24,793	4.9	10.7
Total	133,113	135,520	135,181	149,301	-0.3	10.5

● **Ft Value** (the Automatic Power Tariff Adjustment Mechanism). There was no change in the Ft value in 2010 pursuant to the government policy; it remained at a rate of 92.55 satangs (100 satangs = 1 Baht).

Table 1.1-1 Production, Consumption and Import (Net) of Primary Commercial Energy

Unit : BBL/Day (Crude Oil Equivalent)

	2005					2006					2007					2008					2009					12 MONTHS					GROWTH RATE (%)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	2005					2006					2007					2008					2009					2008					2009					2009					2010																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

Table 1.1-1Y Production, Consumption and Import (Net) of Primary Commercial Energy

Unit : BBL/Day (Crude Oil Equivalent)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Production	151,549	176,356	198,155	221,339	250,465	290,923	309,599	331,936	368,138	392,644	450,073	523,408
Crude	20,039	16,733	19,181	21,351	23,968	24,503	26,317	24,940	26,553	23,763	26,419	27,463
Condensate	12,983	13,820	16,308	16,784	17,538	19,799	24,146	26,192	27,863	27,271	32,436	40,774
Natural Gas	62,886	87,956	103,910	104,075	113,361	140,605	149,430	168,747	186,479	197,527	227,592	281,002
Lignite	31,085	39,841	42,296	54,660	73,846	86,017	91,295	96,021	107,695	114,816	131,686	142,732
Hydro	24,556	18,006	16,460	24,469	21,752	19,999	18,411	16,036	19,548	29,267	31,940	31,437
Import (Net)	182,828	224,765	234,734	301,538	354,756	371,980	419,731	492,902	540,526	640,253	739,280	709,378
Crude	145,335	161,404	154,906	204,186	210,001	220,739	277,501	323,859	372,885	452,114	633,170	728,757
Condensate	-9,943	-8,931	-13,511	-14,459	-15,157	-17,039	-14,532	-10,227	-16,662	-12,871	-21,935	-21,452
Petroleum Products	43,515	67,687	88,089	104,985	154,493	161,350	149,664	166,417	163,753	170,416	77,912	-40,379
Coal	2,773	3,896	4,504	5,691	4,264	5,871	6,247	11,704	19,001	29,356	48,717	41,133
Electricity	1,148	709	746	1,135	1,155	1,059	851	1,149	1,549	1,238	1,416	1,319
Natural Gas												
Stock Change	-7,329	8,511	-8,096	8,755	439	-7,222	-2,954	3,222	-6,985	8,397	32,823	-36,720
Consumption	337,889	389,099	437,456	510,109	600,472	664,612	718,553	804,947	899,880	1,007,874	1,120,759	1,175,656
Petroleum Products	218,092	237,400	270,068	323,925	386,018	410,794	451,899	509,873	566,110	635,902	685,204	681,331
Natural Gas	62,886	87,956	103,910	104,075	113,361	140,605	149,430	168,747	186,479	197,527	227,592	281,003
Coal	2,773	3,896	4,504	5,691	4,265	5,872	6,248	11,704	19,001	29,356	48,717	41,133
Lignite	28,434	41,132	41,768	50,814	73,921	86,283	91,714	97,438	107,193	114,584	125,890	139,433
Hydro & Imported Elec.	25,704	18,715	17,206	25,604	22,907	21,058	19,262	17,185	21,097	30,505	33,356	32,756
Import/Consumption	54	58	54	59	59	56	58	61	60	64	66	60
Non-Energy Use	3,817	3,511	3,529	4,013	4,310	5,513	13,731	16,669	15,769	16,626	35,771	93,850

Table 1.1-1Y Production, Consumption and Import (Net) of Primary Commercial Energy (Cont.)

Unit : BBL/Day (Crude Oil Equivalent)

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Production	524,089	547,787	588,596	594,367	631,698	666,413	676,286	737,579	765,110	793,721	850,175	894,765	989,227
Crude	29,420	34,006	57,937	61,914	75,567	96,322	85,516	113,890	128,950	134,563	143,935	154,041	153,174
Condensate	42,177	45,171	47,528	47,188	48,897	57,032	62,075	63,243	68,488	71,760	77,265	76,361	80,663
Natural Gas	305,034	334,169	350,069	341,406	356,897	373,241	387,695	411,849	422,782	451,905	499,246	537,370	630,858
Lignite	124,868	119,305	106,981	116,451	117,635	107,822	114,898	123,422	109,599	100,152	98,959	96,072	100,797
Hydro	22,590	15,136	26,081	27,408	32,702	31,996	26,102	25,175	35,291	35,341	30,770	30,921	23,735
Import (Net)	621,827	657,303	684,592	750,732	797,089	868,283	988,292	979,920	978,121	997,646	951,993	922,035	1,001,977
Crude	679,728	698,895	643,063	674,211	682,197	709,070	813,422	762,121	763,858	752,196	765,697	762,294	786,243
Condensate	-16,405	-11,749	-4,423	-3,482	-4,560								
Petroleum Products	-65,105	-75,020	-40,892	-76,091	-66,411	-57,345	-55,733	-51,047	-91,285	-105,481	-166,682	-193,992	-161,632
Coal	20,424	40,997	52,177	61,850	70,025	88,931	94,170	107,164	140,264	180,274	199,304	204,976	211,422
Electricity	2,796	3,910	5,088	4,973	4,856	4,278	5,795	7,494	8,873	7,700	4,789	4,239	12,425
Natural Gas	389	270	29,579	89,271	110,982	123,349	130,638	154,188	156,411	162,957	148,885	144,518	153,519
Stock Change	-30,508	-41,584	-10,736	8,762	-4,167	-32,091	-12,553	-21,588	-17,339	-44,686	-35,953	-93,372	-80,153
Consumption	1,086,464	1,118,679	1,147,162	1,199,134	1,282,157	1,348,049	1,450,894	1,520,122	1,544,741	1,603,870	1,617,994	1,662,586	1,782,948
Petroleum Products	610,785	611,174	578,832	560,322	589,160	623,627	686,612	689,418	673,786	666,775	633,720	642,701	652,464
Natural Gas	305,423	334,439	379,610	430,562	467,743	496,438	518,173	565,854	579,007	614,667	647,953	681,717	784,184
Coal	20,424	40,997	52,177	61,850	70,025	88,931	94,170	107,157	140,264	180,274	199,304	204,976	211,422
Lignite	124,446	113,023	105,374	114,019	117,671	102,779	120,042	125,024	107,520	99,113	101,458	98,032	98,718
Hydro & Imported Elec.	25,386	19,046	31,169	32,381	37,558	36,274	31,897	32,669	44,164	43,041	35,559	35,160	36,160
Import/Consumption	57	59	60	63	62	64	68	64	63	62	59	55	56
Non-Energy Use	89,960	127,995	136,762	137,203	150,797	218,738	226,237	218,965	215,829	232,183	220,127	247,586	288,409

Table 1.1-2Y Primary Commercial Energy Production (Physical Unit)

Year	Hydro (GWh)	Lignite (Ton)				NG (MMSCF)	Condensate (1 000 BBL)	Crude Oil (1 000 BBL)						
		EGAT		Others	Total			Benjamas	Sirikit	Tantawan	Fang	Others	Total	
		Mae-Moh	Krabi											
1986	5,532	4,551,921	212,000	4,763,921	774,163	5,538,084	127,735	5,207	7,314					7,314
1987	4,056	5,564,537	191,000	5,755,537	1,175,721	6,931,257	178,658	5,542	6,108					6,108
1988	3,718	5,717,250	237,396	5,954,646	1,340,413	7,295,059	211,641	6,558	6,549				472	7,020
1989	5,512	6,541,191	318,585	6,859,776	2,150,146	9,009,922	211,399	6,731	7,372			421		7,793
1990	4,900	9,652,991	156,262	9,809,254	2,629,219	12,438,473	230,261	7,034	8,307			441		8,748
1991	4,505	11,513,775	242,699	11,756,475	2,889,540	14,646,015	285,599	7,940	8,308			450	186	8,944
1992	4,159	11,844,352	253,950	12,098,302	3,290,259	15,388,561	304,356	9,710	8,601			489	542	9,632
1993	3,613	11,221,088	211,800	11,432,888	4,105,039	15,537,927	342,762	10,504	8,054			469	580	9,103
1994	4,404	11,906,553	225,065	12,131,618	4,963,253	17,094,871	378,779	11,174	8,119			531	1,042	9,692
1995	6,593	13,191,880	144,232	13,336,112	5,084,686	18,420,798	401,221	10,937	6,435			514	1,724	8,674
1996	7,215	16,381,301		16,381,301	5,309,093	21,690,394	463,555	13,044	6,844			472	2,353	9,669
1997	7,082	17,692,415		17,692,415	5,746,141	23,438,556	570,777	16,352	6,450	1,962		483	1,129	10,024
1998	5,089	14,419,327		14,419,327	5,576,868	19,996,195	619,591	16,914	7,540	2,268		376	554	10,738
1999	3,410	12,021,265		12,021,265	6,240,043	18,261,308	678,770	18,115	1,176	8,535		363	492	12,412
2000	5,891	13,621,615	30,000	13,651,615	4,134,132	17,785,747	713,015	19,113	8,914	8,595		321	647	21,205
2001	6,174	15,314,436	133,000	15,447,436	4,159,559	19,606,995	693,469	18,924	10,551	7,742		240	1,168	22,598
2002	7,367	14,994,739	187,000	15,181,739	4,420,245	19,601,984	724,936	19,609	12,823	7,516		241	4,940	27,582
2003	7,208	15,591,841	146,000	15,737,841	3,105,554	18,843,395	758,134	22,872	17,985	6,982		309	7,986	35,158
2004	5,896	16,561,572	95,868	16,657,440	3,402,404	20,059,844	789,651	24,963	14,412	6,240		291	8,707	31,299
2005	5,671	16,534,142	36,522	16,570,664	4,307,512	20,878,176	836,555	25,363	16,724	6,252		292	15,875	41,570
2006	7,950	15,763,798	56,000	15,819,798	3,250,810	19,070,608	858,763	27,466	18,251	6,853		354	18,580	47,067
2007	7,961	16,117,809	27,112	16,144,921	2,094,255	18,239,176	917,917	28,778	15,378	7,486		354	23,085	49,115
2008	6,951	16,420,847	23,248	16,444,095	1,842,390	18,286,485	1,016,856	31,071	16,455	7,665		431	25,748	52,680
2009	6,966	15,631,766		15,631,766	1,934,334	17,566,100	1,091,516	30,623	10,609	7,783		454	35,116	56,225
2010	5,347	15,987,263		15,987,263	2,244,149	18,231,412	1,281,410	32,349	9,733	7,960		421	36,386	55,909

Table 1.1- 3Y Primary Commercial Energy Production

Unit : ktoe

Year	Hydro	Lignite			NG	Condensate	Crude Oil				Grand Total			
		EGAT		Total			Benjamas	Sirikit	Tantawan	Fang		Others		
		Mae-Moh	Krabi											
1986	1,225	1,128	55	1,183	337	1,520	3,138	648	1,000			1,000	7,531	
1987	899	1,378	49	1,427	513	1,940	4,390	690	835			835	8,754	
1988	824	1,416	61	1,477	584	2,061	5,200	816	895			64	9,861	
1989	1,221	1,620	82	1,702	937	2,639	5,194	838	1,008	58		1,066	10,958	
1990	1,086	2,391	40	2,431	1,146	3,577	5,658	875	1,136	60		1,196	12,392	
1991	998	2,852	63	2,915	1,260	4,175	7,017	988	1,136	62	25	1,223	14,401	
1992	921	2,934	65	2,999	1,434	4,433	7,478	1,208	1,176	67	74	1,317	15,357	
1993	800	2,779	55	2,834	1,790	4,624	8,422	1,307	1,101	64	79	1,245	16,398	
1994	976	2,949	58	3,007	2,164	5,171	9,307	1,391	1,110	73	142	1,325	18,170	
1995	1,461	3,268	37	3,305	2,217	5,522	9,858	1,361	880	70	236	1,186	19,388	
1996	1,598	4,058		4,058	2,314	6,372	11,390	1,623	936	65	322	1,322	22,305	
1997	1,569	4,382		4,382	2,505	6,887	14,024	2,035	882	66	154	1,371	25,886	
1998	1,127	3,572		3,572	2,431	6,003	15,223	2,105	1,031	310	51	76	1,468	25,926
1999	755	2,978		2,978	2,720	5,698	16,677	2,254	161	1,167	252	67	1,697	27,081
2000	1,305	3,374	8	3,382	1,802	5,184	17,519	2,378	1,219	1,175	373	44	88	29,285
2001	1,368	3,793	34	3,827	1,813	5,640	17,039	2,355	1,443	1,059	396	33	160	29,492
2002	1,632	3,714	48	3,762	1,927	5,689	17,812	2,440	1,753	1,028	282	33	675	31,344
2003	1,597	3,862	38	3,900	1,354	5,254	18,627	2,846	2,459	955	259	42	1,092	33,131
2004	1,306	4,102	25	4,127	1,483	5,610	19,402	3,106	1,971	853	225	40	1,190	33,704
2005	1,256	4,096	9	4,105	1,878	5,983	20,554	3,156	2,287	855	332	40	2,171	36,633
2006	1,761	3,905	14	3,919	1,417	5,336	21,100	3,418	2,496	937	414	48	2,541	38,050
2007	1,764	3,992	7	3,999	913	4,912	22,553	3,581	2,103	1,024	384	48	3,156	39,526
2008	1,540	4,067	6	4,073	803	4,876	24,984	3,867	2,250	1,048	326	59	3,521	42,470
2009	1,543	3,872		3,872	843	4,715	26,819	3,811	1,451	1,064	309	62	4,802	44,576
2010	1,185	3,960		3,960	978	4,938	31,484	4,026	1,331	1,088	193	58	4,975	49,277

Table 1.1-4Y Primary Commercial Energy Import (Net) (Physical Unit)

Year	Coal (Ton)	Crude Oil (M. Litres)	Condensate (BBL)	Petroleum Products (M. Litres)						Electricity (GWh)	NG & LNG (MMSCF)		
				Gasoline	Diesel	JP&KERO	Fuel Oil	LPG	Others		NG	LNG	Total
1986	221,699	8,434	-3,987,709		2,155	209	82	105		673			2,551
1987	311,495	9,367	-3,581,598	223	2,680	368	487	227		415			3,985
1988	361,076	9,014	-5,433,155	375	3,763	545	286	270		438			5,240
1989	455,031	11,849	-5,798,632	610	4,304	495	247	695		665			6,351
1990	340,897	12,187	-6,078,577	643	5,576	524	1,777	519	-5	676			9,035
1991	469,422	12,810	-6,833,180	786	5,144	580	2,665	191	-94	620			9,272
1992	500,854	16,148	-5,843,959	953	4,271	679	3,175	-56	-551	500			8,472
1993	935,759	18,794	-4,101,385	635	5,328	648	3,331	-6	-566	673			9,370
1994	1,519,212	21,639	-6,682,085	594	4,715	515	3,499	131	-176	907			9,278
1995	2,347,159	26,237	-5,161,711	379	5,729	178	3,701	-112	-368	725			9,507
1996	3,905,824	36,844	-8,820,929	-885	4,063	-163	1,727	-218	-401	832			4,123
1997	3,288,765	42,291	-8,602,987	-1,881	52	-231	231	-870	-187	773			-2,885
1998	1,632,980	39,446	-6,578,884	-1,691	-1,487	-261	462	-870	-510	1,637	791		-4,358
1999	3,277,890	40,558	-4,711,795	-1,657	-891	-1,119	598	-1,346	-727	2,290	549		-5,142
2000	4,183,196	37,420	-1,778,593	-1,073	-1,031	-1,205	-147	-1,240	2,076	2,988	60,247		-2,620
2001	4,945,205	39,125	-1,396,547	-1,336	-1,324	-879	-1,504	-1,403	1,823	2,913	181,330		-4,624
2002	5,598,838	39,589	-1,828,900	-1,006	-1,625	-1,188	-767	-1,270	1,784	2,844	225,429		-4,072
2003	7,110,436	41,148	41	-969	-1,543	-625	-569	-1,426	1,523	2,506	250,548		-3,609
2004	7,549,953	47,333	-110	-1,167	-1,668	-376	-325	-1,643	1,566	3,403	266,082		-3,613
2005	8,568,291	44,227		-2,022	-1,090	-601	539	-1,755	1,196	4,389	313,190		-3,732
2006	11,214,797	44,328	124	-1,922	-2,576	-1,017	-314	-1,067	1,017	5,197	317,705		-5,879
2007	14,413,796	43,651	51	-1,417	-2,498	-443	-1,942	-514	511	4,510	331,002		-6,304
2008	15,979,001	44,556		-1,478	-3,717	-1,407	-3,370	798	-320	2,812	303,246		-9,495
2009	16,388,840	44,237		-1,337	-4,411	-1,618	-3,795	1,367	-1,121	2,483	293,548		-10,915
2010	16,904,205	45,627		-1,342	-5,444	-1,827	-3,133	3,008	232	7,277	311,830		-8,506

Table 1.1-5Y Primary Commercial Energy Import (Net)

Unit : ktoe

Year	Coal	Crude Oil	Condensate	Petroleum Products						Electricity	NG & LNG		Grand Total
				Gasoline	Diesel	JP&KERO	Fuel Oil	LPG	Others		NG	LNG	
1986	138	7,253	-496		1,857	170	77	66		2,170	57		9,122
1987	194	8,055	-446	166	2,310	301	458	143		3,378	35		11,216
1988	225	7,752	-676	280	3,244	446	269	170		4,409	37		11,747
1989	284	10,190	-722	454	3,710	405	233	438		5,240	57		15,049
1990	213	10,481	-756	479	4,806	429	1,673	327	-4	7,710	58		17,706
1991	293	11,016	-850	585	4,434	474	2,508	120	-70	8,051	53		18,563
1992	313	13,887	-727	710	3,682	555	2,989	-35	-411	7,490	43		21,006
1993	584	16,163	-510	473	4,593	530	3,135	-4	-421	8,306	57		24,600
1994	948	18,610	-832	442	4,064	421	3,293	83	-131	8,172	77		26,975
1995	1,465	22,564	-642	282	4,938	146	3,484	-70	-275	8,505	62		31,954
1996	2,438	31,686	-1,098	-659	3,502	-133	1,626	-137	-299	3,900	71		36,997
1997	2,053	36,370	-1,071	-1,401	45	-189	217	-548	-139	-2,015	66		35,403
1998	1,019	33,923	-819	-1,260	-1,282	-214	435	-548	-380	-3,249	140	19	31,033
1999	2,046	34,880	-586	-1,234	-768	-915	563	-848	-542	-3,744	195	13	32,804
2000	2,611	32,181	-221	-800	-889	-985	-138	-782	1,547	-2,047	255	1,480	34,259
2001	3,087	33,648	-174	-996	-1,142	-718	-1,415	-884	1,358	-3,797	248	4,455	37,467
2002	3,495	34,046	-228	-750	-1,401	-971	-722	-800	1,330	-3,314	242	5,539	39,780
2003	4,438	35,388		-722	-1,330	-511	-536	-899	1,135	-2,863	214	6,156	43,333
2004	4,713	40,707		-869	-1,438	-307	-306	-1,035	1,167	-2,788	290	6,538	49,460
2005	5,348	38,035		-1,506	-939	-491	508	-1,106	987	-2,547	374	7,695	48,905
2006	7,000	38,122		-1,432	-2,220	-832	-295	-672	896	-4,555	443	7,806	48,816
2007	8,997	37,540		-1,056	-2,154	-362	-1,828	-324	459	-5,265	384	8,133	49,789
2008	9,974	38,318		-1,101	-3,204	-1,150	-3,172	503	-217	-8,341	240	7,451	47,642
2009	10,230	38,044		-996	-3,802	-1,322	-3,572	861	-850	-9,681	212	7,212	46,017
2010	10,551	39,239		-1,000	-4,693	-1,494	-2,949	1,895	173	-8,068	620	7,662	50,004

Table 1.1-6Y Primary Commercial Energy Consumption (Physical Unit)

Year	Hydro/ Import (GWh)	Lignite (Ton)					NG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Ton)
		EGAT		Total	Others	Total			
		Mae-Moh	Krabi						
1986	6,204	4,084,231	221,552	4,305,784	734,351	5,040,135	127,735	13,109	221,699
1987	4,472	6,061,425	183,694	6,245,120	1,056,771	7,301,891	178,658	14,299	311,495
1988	4,156	5,681,773	213,978	5,895,751	1,316,064	7,211,815	211,641	16,302	361,076
1989	6,177	6,545,092	219,112	6,764,205	1,799,380	8,563,585	211,399	19,409	455,031
1990	5,576	9,619,613	255,710	9,875,323	2,600,686	12,476,010	230,261	22,957	340,987
1991	5,125	11,504,708	219,982	11,724,690	2,934,444	14,659,135	285,599	24,379	469,513
1992	4,659	12,129,274	241,265	12,370,539	3,193,113	15,563,652	304,356	26,856	500,946
1993	4,285	11,239,942	249,845	11,489,787	4,222,965	15,712,752	342,762	30,202	935,759
1994	5,311	11,908,173	247,711	12,155,884	4,897,708	17,053,592	378,779	33,523	1,519,212
1995	7,318	13,374,488	193,005	13,567,493	4,939,136	18,506,629	401,221	37,660	2,347,159
1996	8,047	16,405,340		16,405,340	4,688,467	21,093,807	463,555	40,793	3,905,842
1997	7,855	18,010,806		18,010,806	5,235,658	23,246,464	570,777	40,600	3,288,780
1998	6,726	15,388,095		15,388,095	5,029,499	20,417,594	620,381	36,521	1,632,970
1999	5,700	13,893,584		13,893,584	4,610,512	18,504,096	679,318	36,585	3,277,940
2000	8,879	14,120,569		14,120,569	3,722,528	17,843,097	773,183	35,027	4,183,209
2001	9,087	15,744,116		15,744,116	3,753,746	19,497,862	874,564	34,150	4,945,198
2002	10,211	15,035,329		15,035,329	4,503,816	19,539,145	950,087	35,908	5,598,850
2003	9,713	15,406,532		15,406,532	2,753,088	18,159,620	1,008,373	37,949	7,110,439
2004	9,300	16,536,694		16,536,694	4,006,700	20,543,394	1,055,404	41,650	7,549,950
2005	10,060	16,571,091		16,571,091	4,475,747	21,046,838	1,149,371	41,725	8,567,691
2006	13,147	15,815,374		15,815,374	3,036,745	18,852,119	1,176,088	41,051	11,214,800
2007	12,471	15,811,050		15,811,050	2,159,379	17,970,429	1,248,521	41,031	14,413,800
2008	9,763	16,407,465		16,407,465	2,124,087	18,531,552	1,319,738	39,532	15,978,998
2009	9,448	15,818,265		15,818,265	2,042,528	17,860,793	1,384,714	40,065	16,388,840
2010	12,624	16,004,196		16,004,196	2,017,685	18,021,881	1,592,846	40,827	16,904,200

Table 1.1-7Y Primary Commercial Energy Consumption

Unit : ktoe

Year	Hydro/ Import Electricity	Lignite					NG	Petroleum	Imported Coal	Total
		EGAT			Others	Total				
		Mae-Moh	Krabi	Total						
1986	1,282	1,012	57	1,069	350	1,419	3,138	10,884	138	16,861
1987	934	1,501	47	1,548	504	2,052	4,390	11,848	194	19,418
1988	861	1,407	55	1,462	628	2,090	5,200	13,515	225	21,891
1989	1,278	1,621	56	1,677	858	2,535	5,194	16,166	284	25,457
1990	1,144	2,383	66	2,449	1,241	3,690	5,658	19,265	213	29,970
1991	1,051	2,850	57	2,907	1,400	4,307	7,017	20,501	293	33,169
1992	964	3,004	62	3,066	1,523	4,589	7,478	22,615	313	35,959
1993	857	2,784	64	2,848	2,014	4,862	8,422	25,446	584	40,171
1994	1,053	2,950	64	3,014	2,336	5,350	9,307	28,253	948	44,911
1995	1,523	3,313	50	3,363	2,356	5,719	9,858	31,736	1,465	50,301
1996	1,669	4,064		4,064	2,236	6,300	11,390	34,290	2,438	56,087
1997	1,635	4,461		4,461	2,497	6,958	14,024	34,003	2,053	58,673
1998	1,267	3,812		3,812	2,399	6,211	15,243	30,482	1,019	54,222
1999	950	3,441		3,441	2,199	5,640	16,691	30,502	2,046	55,829
2000	1,560	3,498		3,498	1,776	5,274	18,997	28,967	2,611	57,409
2001	1,616	3,900		3,900	1,791	5,691	21,488	27,964	3,087	59,846
2002	1,874	3,724		3,724	2,148	5,872	23,344	29,403	3,495	63,988
2003	1,811	3,816		3,816	1,313	5,129	24,776	31,123	4,438	67,277
2004	1,596	4,096		4,096	1,911	6,007	25,931	34,361	4,713	72,608
2005	1,630	4,105		4,105	2,135	6,240	28,240	34,407	5,348	75,865
2006	2,204	3,917		3,917	1,449	5,366	28,896	33,627	7,000	77,093
2007	2,148	3,916		3,916	1,030	4,946	30,676	33,277	8,997	80,044
2008	1,780	4,064		4,064	1,013	5,077	32,426	31,714	9,974	80,971
2009	1,755	3,918		3,918	974	4,892	34,022	32,075	10,230	82,974
2010	1,805	3,964		3,964	962	4,926	39,136	32,563	10,551	88,981

Table 1.2-1Y Final Modern Energy Consumption (Physical Unit)

Year	Solid Fossil Fuel (Thousand Tons)			Petroleum Products (M. Litres)							Electricity (GWh)*		NG in Industry (MMSCF)	
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel Oil	Total	Energy	NPC	Total
1986	222	734	956	1,179	933	1,336	1,370	143	5,729	1,544	12,234	22,034	6,774	6,774
1987	312	1,057	1,368	1,259	1,113	1,484	1,490	129	6,424	1,821	13,719	24,894	2,603	2,603
1988	361	1,316	1,677	1,401	1,299	1,623	1,832	126	7,280	1,905	15,466	28,110	3,306	3,306
1989	455	1,799	2,254	1,571	1,526	1,796	2,112	119	8,632	2,439	18,196	32,772	3,512	4,442
1990	341	2,601	2,942	1,716	1,746	1,941	2,292	123	9,765	2,679	20,262	38,203	5,551	10,541
1991	470	2,804	3,273	1,845	1,885	2,005	2,468	111	9,889	2,950	21,153	44,239	7,685	13,748
1992	501	3,141	3,641	2,059	2,217	2,118	2,724	112	10,282	3,553	23,065	49,331	11,873	18,135
1993	936	4,223	5,159	2,224	2,748	2,164	2,899	107	11,746	3,705	25,592	55,231	14,543	20,644
1994	1,519	4,898	6,417	2,404	3,419	2,173	3,134	114	12,814	4,202	28,259	62,545	19,211	24,400
1995	2,335	4,939	7,275	2,629	4,087	2,206	3,295	101	14,863	4,464	31,645	70,609	26,093	32,703
1996	3,840	4,688	8,528	2,902	4,842	2,076	3,393	98	16,507	4,585	34,404	78,366	28,057	34,727
1997	3,197	5,236	8,432	2,985	5,382	1,973	3,543	86	16,807	4,429	35,205	83,331	34,886	42,628
1998	1,528	5,030	6,558	2,757	4,969	2,199	3,315	55	14,979	3,688	31,962	82,573	33,514	39,817
1999	2,205	4,611	6,816	2,983	4,685	2,340	3,298	52	15,160	4,169	32,688	83,850	44,002	52,182
2000	2,053	3,723	5,776	3,375	3,427	3,335	3,494	49	14,945	4,009	32,634	90,407	66,281	73,985
2001	2,603	3,754	6,357	3,728	3,001	3,856	3,717	57	15,151	3,917	33,427	96,037	68,782	79,722
2002	3,197	4,504	7,700	3,882	2,985	4,341	3,778	62	16,036	4,283	35,366	102,584	76,205	86,836
2003	4,885	2,753	7,638	3,975	3,085	4,550	3,761	36	17,528	4,386	37,321	109,672	82,732	93,711
2004	5,356	4,007	9,363	4,035	3,029	4,631	4,242	23	19,569	4,768	40,298	118,477	98,784	110,416
2005	6,495	4,476	10,971	4,364	2,886	4,362	4,293	21	19,545	4,354	39,825	125,155	99,772	112,489
2006	7,265	3,037	10,302	5,074	2,656	4,559	4,519	20	18,350	3,956	39,134	130,789	107,803	120,427
2007	8,665	2,159	10,825	5,812	2,625	4,712	4,932	18	18,702	3,441	40,242	136,712	135,136	149,896
2008	10,045	2,124	12,169	6,828	2,809	4,311	4,636	16	17,635	3,038	39,274	138,870	162,535	177,530
2009	10,460	2,043	12,503	6,894	3,233	4,292	4,431	18	18,452	2,620	39,940	138,904	197,533	214,375
2010	11,026	2,018	13,043	7,587	2,908	4,509	4,712	15	18,468	2,475	40,674	153,291	234,578	250,379

* Including Power Generation from SPP

Table 1.2-2Y Final Modern Energy Consumption

Unit : ktoe

Year	Solid Fossil Fuel		Petroleum Products							Electricity*		Natural Gas		Total
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel Oil	Total	Energy	NPC	Total
1986	138	350	488	743	695	996	1,120	117	4,938	1,454	10,063	1,878	166	12,595
1987	194	504	698	793	829	1,106	1,218	105	5,537	1,714	11,302	2,121	64	14,185
1988	225	628	853	883	968	1,210	1,497	103	6,275	1,793	12,729	2,395	81	16,058
1989	284	858	1,142	990	1,137	1,338	1,727	97	7,441	2,296	15,026	2,793	86	19,070
1990	213	1,241	1,454	1,082	1,301	1,446	1,874	101	8,417	2,521	16,742	3,255	136	21,710
1991	293	1,337	1,630	1,163	1,405	1,494	2,017	91	8,524	2,777	17,471	3,770	189	23,209
1992	313	1,498	1,811	1,297	1,652	1,578	2,227	92	8,863	3,344	19,053	4,204	292	25,514
1993	584	2,014	2,598	1,401	2,047	1,612	2,369	88	10,124	3,487	21,128	4,706	357	28,939
1994	948	2,336	3,284	1,515	2,547	1,619	2,562	93	11,046	3,955	23,337	5,329	472	32,549
1995	1,458	2,356	3,814	1,656	3,045	1,644	2,693	82	12,812	4,202	26,134	6,017	641	36,768
1996	2,397	2,236	4,633	1,829	3,608	1,547	2,773	80	14,229	4,315	28,381	6,678	689	40,545
1997	1,995	2,497	4,492	1,881	4,010	1,470	2,896	70	14,487	4,169	28,983	7,101	857	41,623
1998	954	2,399	3,353	1,737	3,702	1,639	2,709	45	12,912	3,471	26,215	7,036	823	37,582
1999	1,376	2,199	3,575	1,880	3,491	1,744	2,696	42	13,068	3,924	26,845	7,145	1,081	38,847
2000	1,282	1,776	3,058	2,127	2,553	2,484	2,856	40	12,882	3,774	26,716	7,704	1,629	39,296
2001	1,625	1,791	3,416	2,349	2,236	2,873	3,039	46	13,060	3,687	27,290	8,183	1,690	40,848
2002	1,995	2,148	4,143	2,446	2,224	3,235	3,088	51	13,822	4,032	28,898	8,741	1,872	43,915
2003	3,049	1,313	4,362	2,505	2,298	3,390	3,074	29	15,109	4,128	30,533	9,345	2,033	46,543
2004	3,343	1,911	5,254	2,543	2,257	3,451	3,467	19	16,868	4,488	33,093	10,095	2,427	51,155
2005	4,054	2,135	6,189	2,750	2,150	3,250	3,509	17	16,847	4,098	32,621	10,664	2,451	52,237
2006	4,535	1,449	5,984	3,198	1,979	3,397	3,693	16	15,817	3,723	31,823	11,145	2,649	51,911
2007	5,409	1,030	6,439	3,663	1,956	3,510	4,031	15	16,120	3,239	32,534	11,649	3,320	54,305
2008	6,270	1,013	7,283	4,303	2,093	3,212	3,790	13	15,201	2,859	31,471	11,833	3,993	54,948
2009	6,529	974	7,503	4,344	2,409	3,198	3,622	14	15,906	2,466	31,959	11,836	4,853	56,565
2010	6,882	962	7,844	4,781	2,166	3,360	3,851	12	15,919	2,330	32,419	13,062	5,764	59,477

* Including Power Generation from SPP

Table 1.3-1 Energy Reserves (Preliminary Data)

31 December 2010

Energy Type (Original Unit)	Reserves*			Production 2010	Available for Use (Year)		
	P1	P1+P2	P1+P2+P3		P1	P1+P2	P1+P2+P3
Petroleum							
- Crude Oil (MMBBL)	197	659	906	55	4	12	16
- Condensate (MMBBL)	245	581	710	32	8	18	22
- Natural Gas (BCF)	10,589	22,068	28,455	1,044	10	21	27
Lignite (M. Tons)	1,181	2,007	2,007	18	65	110	110
Energy Type (ktoe)	Reserves*			Production 2010	Available for Use (Year)		
	P1	P1+P2	P1+P2+P3		P1	P1+P2	P1+P2+P3
Petroleum							
- Crude Oil	317,649	704,564	911,434	37,264			
- Condensate	26,974	90,102	123,920	7,586	4	12	16
- Natural Gas	30,515	72,259	88,386	4,026	8	18	22
Lignite	260,160	542,203	699,129	25,652	10	21	27
Total	339,752	577,222	577,222	5,244	65	110	110
Total							
657,401 1,281,785 1,488,656 42,509							
Energy Type (MMBBL Crude Oil Equivalent)	Reserves*			Production 2010	Available for Use (Year)		
	P1	P1+P2	P1+P2+P3		P1	P1+P2	P1+P2+P3
Petroleum							
- Crude Oil	2,323	5,153	6,666	273			
- Condensate	197	659	906	55	4	12	16
- Natural Gas	223	528	646	29	8	18	22
Lignite	1,903	3,965	5,113	188	10	21	27
Total	2,485	4,222	4,222	38	65	110	110
Total							
4,808 9,374 10,887 311							

Remarks : P1 = Proved Reserves, P2 = Probable Reserves, P3 = Possible Reserves

Source : * Department of Mineral Fuels (DMF)





● ● Chapter 2 OIL

● ● บทที่ 2 น้ำมัน



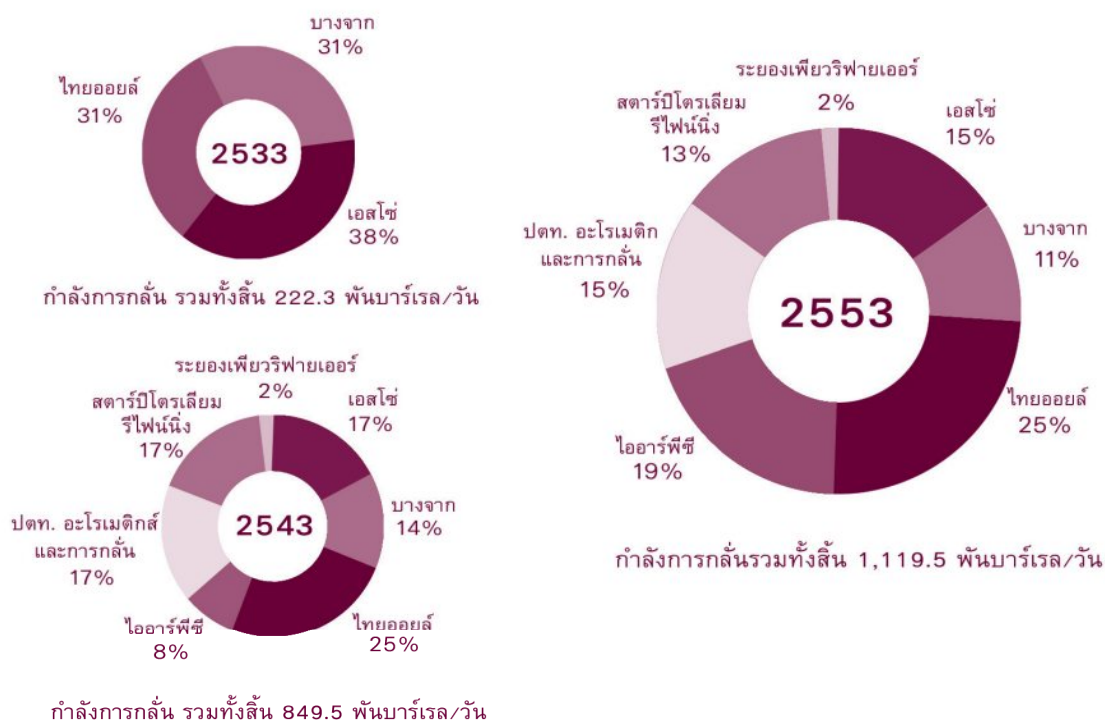
บทที่ 2 น้ำมัน

การผลิตน้ำมันดิบ ในปี 2553 มีปริมาณการผลิตน้ำมันดิบในประเทศรวมทั้งสิ้น 153,174 บาร์เรลต่อวัน โดยแหล่งน้ำมันดิบที่สำคัญของไทย ได้แก่ แหล่งเบญจมาศ สิริกิติ์ ทานตะวัน จัสมิน และบิกออยล์โปรเจกต์ ของบริษัทยูโนแคล ประเทศไทย จำกัด เป็นต้น

การนำเข้าและส่งออกน้ำมันดิบ การนำเข้าส่วนใหญ่มาจากกลุ่มประเทศตะวันออกกลาง ร้อยละ 73 กลุ่มประเทศตะวันออกไกล ร้อยละ 8 และแหล่งอื่นๆ ร้อยละ 19 ในขณะที่ไทยก็มีการส่งออกน้ำมันดิบไปยังต่างประเทศเช่นกัน อาทิ เกาหลี สหรัฐอเมริกา และสิงคโปร์ เป็นต้น

การกลั่นน้ำมัน ในปี 2553 ประเทศไทยมีโรงกลั่นน้ำมันจำนวนทั้งสิ้น 8 โรง ประกอบด้วย บริษัท เอสโซ่ ประเทศไทย จำกัด (มหาชน) บริษัท บางจากปิโตรเลียม จำกัด (มหาชน) บริษัท ไทยออยล์ จำกัด (มหาชน) บริษัท ปตท. อะโรเมติกส์และการกลั่น จำกัด (มหาชน) บริษัท สตาร์ปิโตรเลียม รีไฟน์นิ่ง จำกัด บริษัท ไออาร์พีซี จำกัด (มหาชน) บริษัท ระยองเพียวรีฟายเออร์ จำกัด (มหาชน) และ โรงกลั่นน้ำมันผาง โดยมีกำลังการกลั่นรวมทั้งสิ้น 1,119,500 บาร์เรลต่อวัน

กำลังการกลั่นน้ำมันของประเทศไทย ปี 2533 2543 และ 2553



Chapter 2 oil



oil

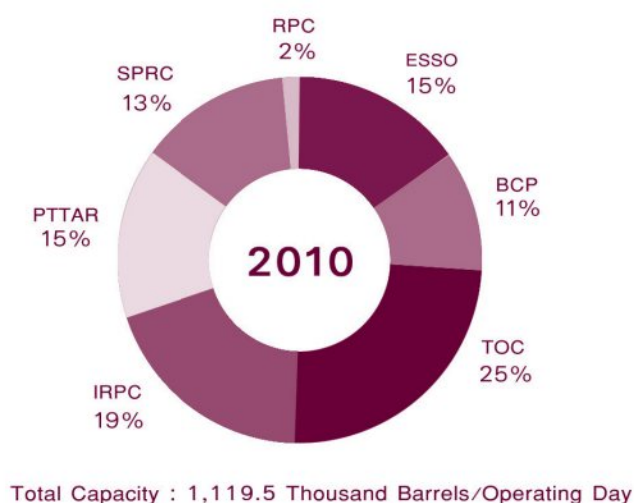
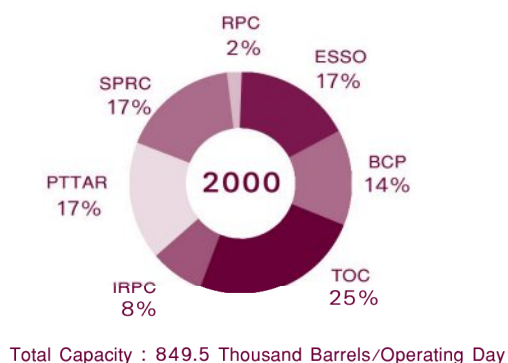
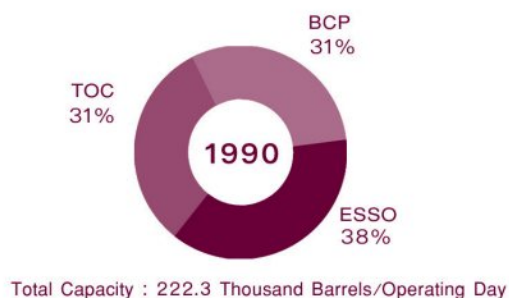
Crude Oil Production. The accumulated domestic oil production in 2010 totaled 153,174 barrels per day (BBL/D). Major crude oil fields in Thailand comprise Benjamas, Sirikit, Tantanwan, Jasmin and Big Oil Project of Unocal (Thailand) Co., Ltd.

Crude Oil Import and Export. Most of the imports were from the Middle East, holding a share of 73%; the remainder was from the Far East, accounting for 8%, and from other sources, 19%. Concurrently, Thailand also exported crude oil to such countries as Korea, the USA and Singapore.

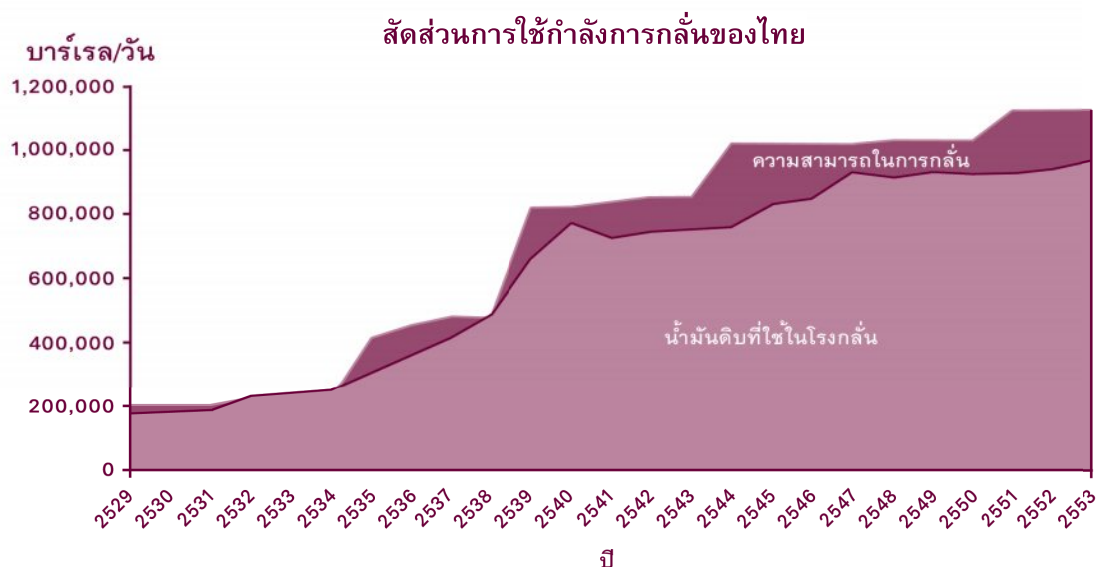
Oil Refining. As of 2010, there are eight oil refineries in Thailand, with a total refining capacity of 1,119,500 BBL/D, comprising:

1) ESSO Thailand Co., Ltd.	2) Bangchak Petroleum Public Co., Ltd.
3) Thai Oil Public Co., Ltd.	4) PTT Aromatics and Refining Public Co., Ltd.
5) Star Petroleum Refining Co., Ltd.	6) IRPC Public Co., Ltd.
7) Rayong Purifier Public Co., Ltd., and	8) Fang Oil Refinery.

Thailand's Refining Capacity in 1990, 2000 and 2010



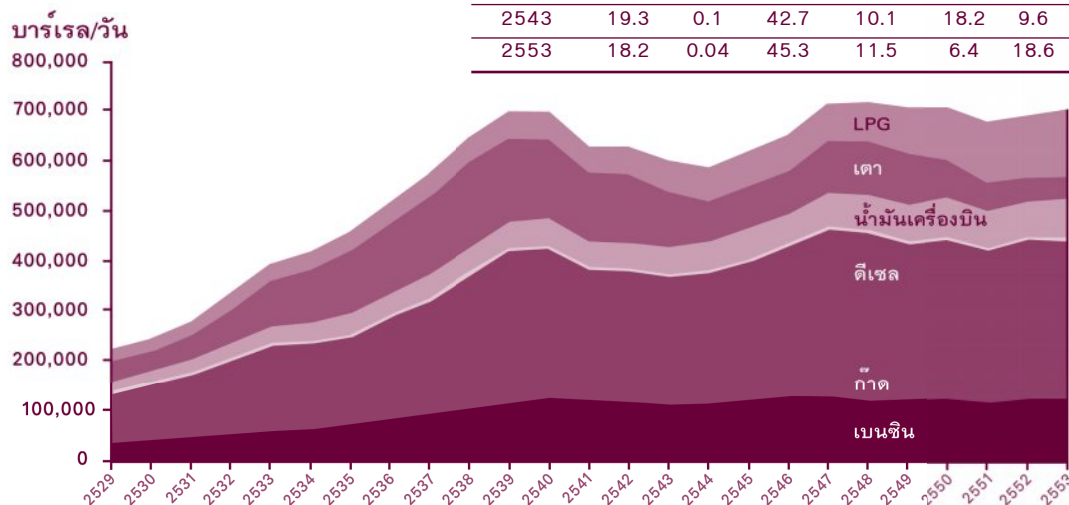
การใช้น้ำมันดิบเพื่อการกลั่นในปี 2553 อยู่ที่ระดับ 953,577 บาร์เรลต่อวัน คิดเป็นสัดส่วนร้อยละ 89 ของความสามารถในการกลั่นของประเทศ



การผลิตและการใช้น้ำมันสำเร็จรูป ในปี 2553 การผลิตน้ำมันสำเร็จรูปอยู่ที่ระดับ 952 พันบาร์เรลต่อวัน ในขณะที่การใช้น้ำมันสำเร็จรูปอยู่ที่ระดับ 703 พันบาร์เรลต่อวัน โดยการใช้ น้ำมันดีเซล มีสัดส่วนมากที่สุดคือร้อยละ 45 รองลงมาเป็นก๊าซปิโตรเลียมเหลว (LPG) ร้อยละ 19 น้ำมันเบนซิน ร้อยละ 18 น้ำมันเครื่องบิน ร้อยละ 12 น้ำมันเตา ร้อยละ 6 และน้ำมันก๊าด ร้อยละ 0.04

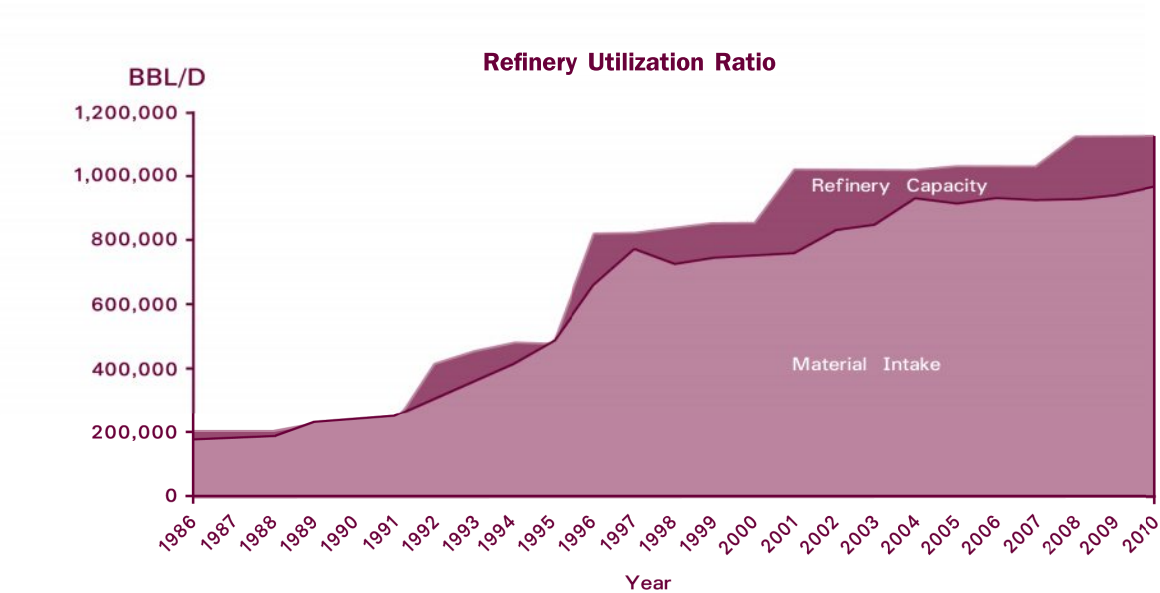
สัดส่วนการใช้น้ำมันสำเร็จรูป

สัดส่วน %	เบนซิน	ก๊าด	ดีเซล	เครื่องบิน	เตา	LPG
2533	16.1	0.5	43.2	10.0	22.7	7.5
2543	19.3	0.1	42.7	10.1	18.2	9.6
2553	18.2	0.04	45.3	11.5	6.4	18.6

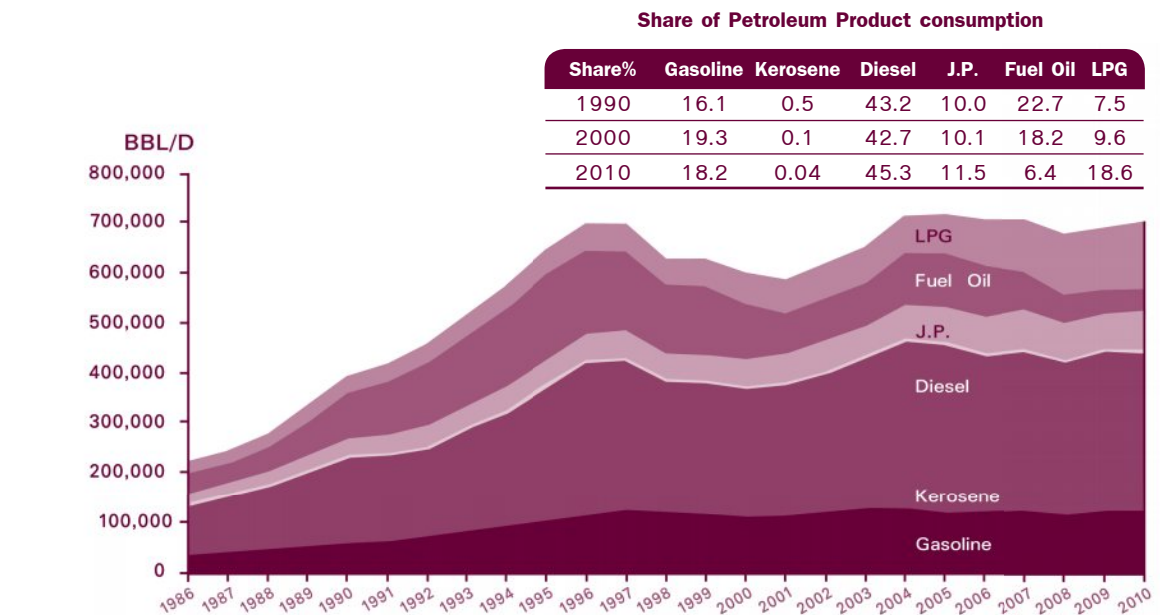


การใช้ LPG โพรเพน และบิวเทน ในปี 2553 สาขาครัวเรือนมีสัดส่วนการใช้ LPG โพรเพน และบิวเทน อยู่ที่ร้อยละ 41 ซึ่งแนวโน้มการใช้ในสาขานี้มีสัดส่วนลดลงเมื่อเทียบกับอดีตที่ผ่านมา ในขณะที่การใช้สาขาอุตสาหกรรมปิโตรเคมีและสาขาขนส่งเพิ่มขึ้น อยู่ที่ร้อยละ 27 และ 11 ตามลำดับ สัดส่วนที่เหลือเป็นการใช้ในสาขาอุตสาหกรรมและใช้เองอยู่ที่ร้อยละ 13 และ 8 ตามลำดับ

The refinery intake of crude oil in 2010 was at a volume of 953,577 BBL/D, accounting for 89% of the total domestic refining capacity.

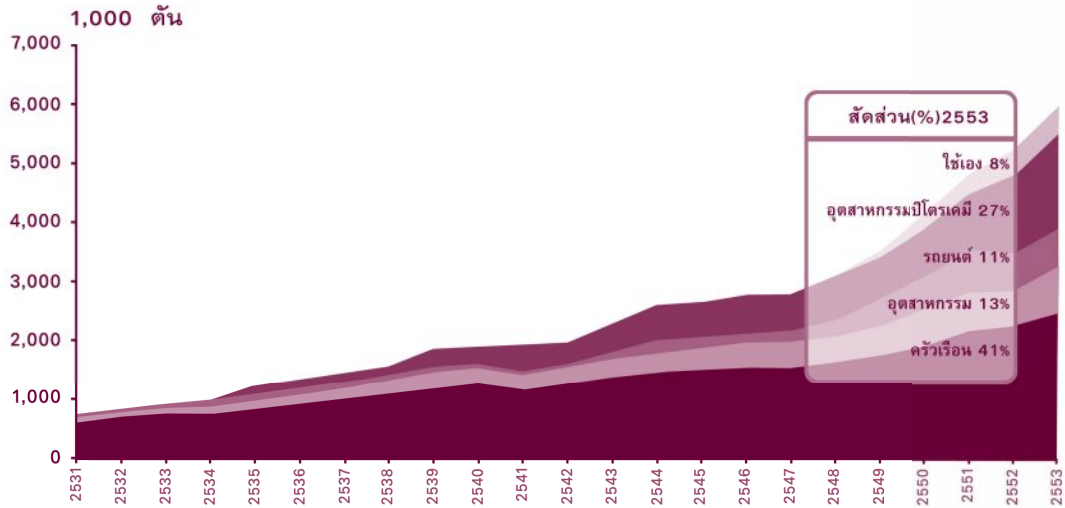


Production and Consumption of Petroleum Products. In 2010, the production of petroleum products was at a volume of 952 KBD while the consumption was at 703 KBD. Diesel consumption accounted for the largest share of 45%; others comprised liquefied petroleum gas (LPG), 19%; gasoline, 18%; jet petroleum, 12%; fuel oil, 6%; and kerosene, 0.04%.

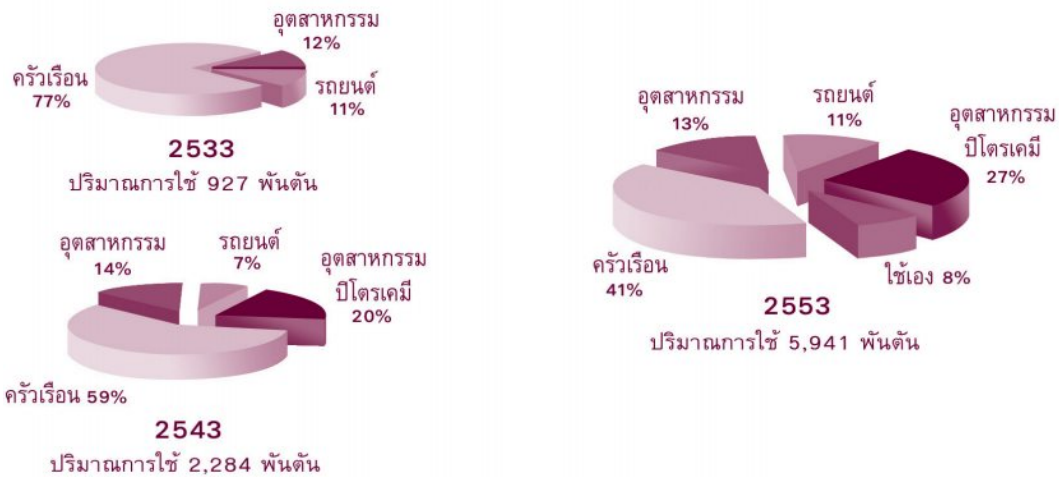


LPG, Propane and Butane Consumption. In 2010, the share of LPG, propane and butane consumption in the household sector was 41%, decreasing from the consumption share of this sector in the previous year, while that in the petrochemical and transport sectors increased to 27% and 11% respectively. The industrial sector and own (on-site) use accounted for the remaining share of 13% and 8% respectively.

การใช้ LPG โพรเพน และบิวเทน รายสาขา



การใช้ LPG โพรเพน และบิวเทน รายสาขาในปี 2533 2543 และ 2553

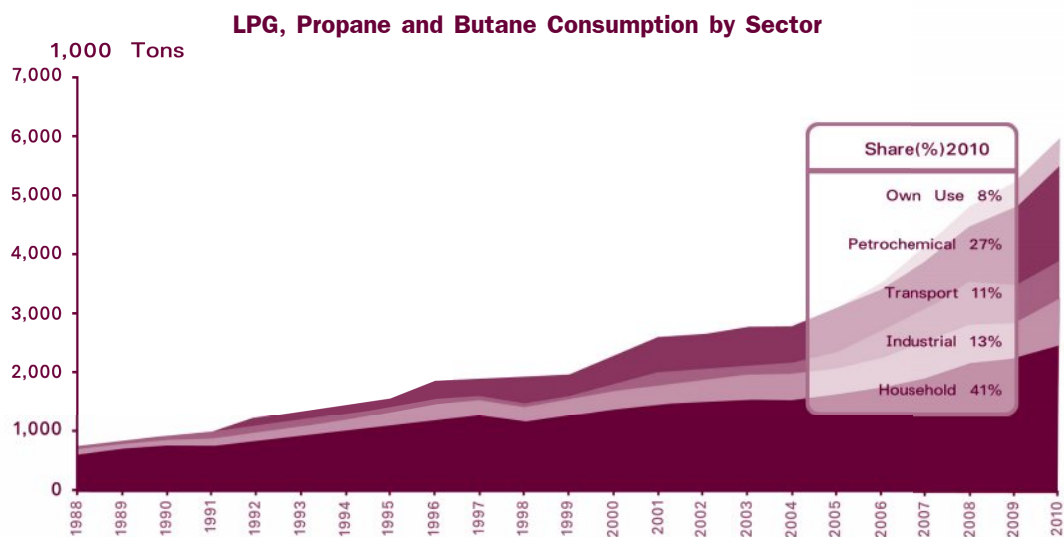


การส่งออก LPG โพรเพน และบิวเทน ในปี 2553 การส่งออก LPG โพรเพน และบิวเทน มีสัดส่วนเพียงเล็กน้อยคือร้อยละ 0.4 เท่านั้นเมื่อเทียบกับปริมาณการใช้ทั้งหมด ทั้งนี้เนื่องจากความต้องการใช้ในประเทศมีปริมาณเพิ่มสูงขึ้น

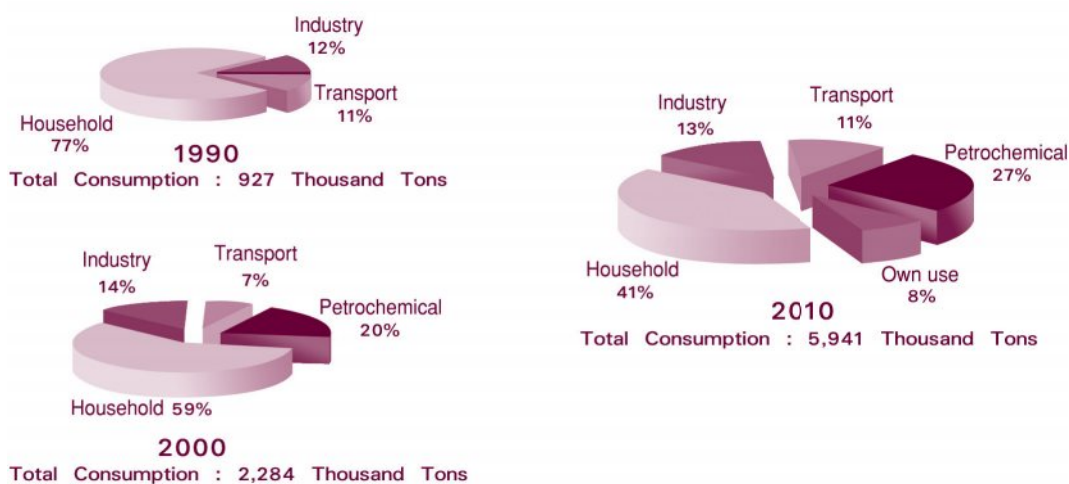
สัดส่วนการใช้และการส่งออก LPG โพรเพน และบิวเทน



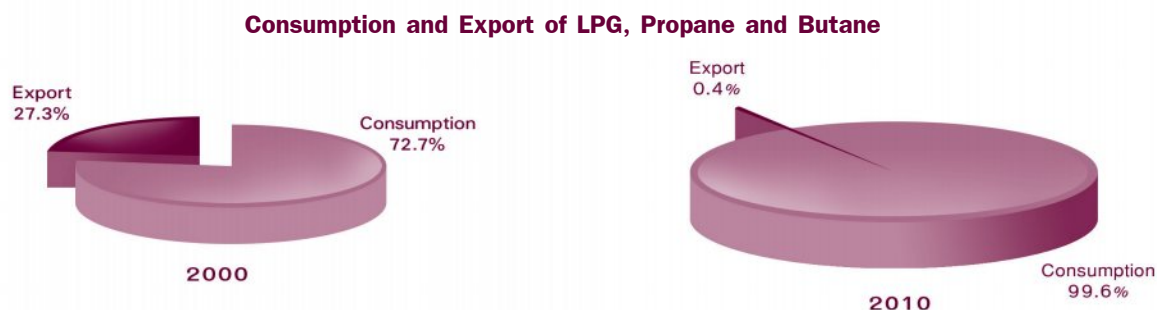
การนำเข้าและส่งออกน้ำมันสำเร็จรูป ในปี 2553 มีการส่งออก 206 พันบาร์เรลต่อวัน โดยน้ำมันดีเซลมีสัดส่วนการส่งออกมากที่สุด ร้อยละ 46 ของการส่งออกน้ำมันสำเร็จรูปทั้งหมด ในขณะที่การนำเข้าน้ำมันสำเร็จรูปมีปริมาณเพียง 55 พันบาร์เรลต่อวัน ทั้งนี้ปริมาณ LPG มีสัดส่วนการนำเข้ามากที่สุดถึงร้อยละ 95 ของการนำเข้าน้ำมันสำเร็จรูปทั้งหมด



LPG, Propane and Butane Consumption by Sector in 1990, 2000, 2010



LPG, Propane and Butane Export. Due to growing domestic demand of LPG, propane and butane in 2010, there was only a small export volume of these products, accounting for 0.4% of the total consumption.



Import and Export of Petroleum Products. In 2010, the export volume of petroleum products was 206 KBD, with diesel accounting for the largest share, i.e. 46%, of the total export; while the petroleum product import volume was only 55 KBD, with LPG accounting for the largest share of 95% of the total import.

Table 2.1.1-1Y Production of Crude Oil

Unit : Barrels/Day

Year	Chaba	Bualaung	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
1986					20,039							20,039
1987					16,733							16,733
1988					17,892						1,289	19,181
1989					20,197						1,153	21,351
1990					22,759						1,209	23,968
1991					22,762						1,741	24,503
1992					23,500						2,817	26,317
1993					22,065						2,875	24,940
1994					22,245						4,309	26,553
1995					17,631						6,132	23,763
1996					18,701						7,719	26,419
1997					17,672		5,374				4,417	27,463
1998					20,658		6,213				2,548	29,420
1999					23,384		5,056			3,223	2,343	34,006
2000					23,483		7,454			24,354	2,646	57,937
2001				1,149	21,212		7,938			28,906	2,708	61,914
2002				11,634	20,591	2	5,649			35,132	2,560	75,567
2003				20,231	19,127		5,193			49,275	2,496	96,322
2004				22,021	17,050		4,503			39,378	2,564	85,516
2005				29,794	17,129		6,650	5,768		45,819	8,729	113,890
2006				38,679	18,775		8,296	8,649		50,004	4,547	128,950
2007				39,215	20,511	1,202	7,703	19,267		42,132	4,533	134,563
2008		3,324	287	35,559	20,942	8,222	6,505	18,292	1,445	44,960	4,399	143,935
2009	3,862	8,916	5,063	33,766	21,324	8,346	6,196	13,637	6,596	29,067	17,269	154,041
2010	3,739	8,327	7,926	36,998	21,808	6,689	3,860	13,868	3,891	26,665	19,403	153,174

Source : Department of Mineral Fuels (DMF)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.1-2Y Production of Condensate

Unit : Barrels/Day

Year	Pailin	Erawan	Bannpot	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Trat	Others	Total
1986		6,676		3,365							4,224	14,265
1987		6,362	424	4,764							3,635	15,185
1988		6,257	2,296	5,436							3,930	17,919
1989		7,325	1,863	5,409							3,845	18,441
1990		7,885	1,172	5,506							4,707	19,270
1991		9,691	599	6,152							5,313	21,753
1992		8,476	362	6,990			6,571				4,130	26,530
1993		9,271	389	6,465			7,296	1,557			3,800	28,778
1994		8,978	565	7,245			6,381	3,410			4,035	30,615
1995		9,152	176	6,922	261		5,480	4,150			3,823	29,964
1996		7,999	385	6,944	3,349		4,843	7,803			4,316	35,639
1997		9,529	865	7,261	2,499		6,748	10,103			7,794	44,800
1998		9,601	566	7,420	1,026		7,438	10,830			9,459	46,341
1999	3,261	9,936	553	6,409	789		6,610	13,581		824	7,668	49,631
2000	9,207	8,569	359	4,607	1,410		6,307	13,393		2,198	6,170	52,220
2001	8,272	8,928	233	3,823	607		6,926	16,208		2,589	4,261	51,847
2002	11,330	9,029	393	3,353	647		8,260	16,111		2,306	2,296	53,724
2003	16,975	12,070	237	3,226	4,798		5,568	15,729		2,473	1,587	62,663
2004	19,003	11,726	1,358	3,917	4,505		6,683	17,665		2,047	1,298	68,204
2005	21,620	11,599	1,779	3,586	4,022		6,247	17,839		1,984	811	69,487
2006	25,269	11,101	3,414	2,497	1,219	32	8,302	17,685		4,928	803	75,250
2007	25,276	11,291	3,829	3,931	550	464	11,746	17,869		3,111	778	78,845
2008	23,268	10,594	2,645	4,136	800	458	10,240	18,505	12,610	969	669	84,893
2009	22,106	12,496	1,759	2,937	753	409	6,591	18,300	17,520	647	380	83,900
2010	22,435	11,180	3,789	2,730	2,519	428	6,733	19,568	17,508	1,567	170	88,627

Source : Department of Mineral Fuels (DMF)
Compiled by : Energy Policy and Planning Office (EPPO)



Table 2.1.2-1Y Import of Crude Oil Classified by Sources

Unit : Million Litres

Year	Middle East	Far East	Others	Total
1986	4,010	4,328	96	8,434
1987	4,467	4,582	317	9,367
1988	5,690	3,020	304	9,014
1989	8,264	3,358	228	11,849
1990	7,726	4,357	104	12,187
1991	7,375	5,220	214	12,810
1992	9,468	5,789	891	16,148
1993	10,822	7,435	537	18,794
1994	13,190	8,035	415	21,639
1995	16,605	8,951	681	26,237
1996	26,534	9,669	642	36,844
1997	32,597	8,226	1,468	42,291
1998	33,307	5,717	421	39,446
1999	32,281	6,309	1,969	40,558
2000	28,980	8,086	2,104	39,170
2001	32,011	7,320	2,011	41,342
2002	31,453	7,957	2,867	42,278
2003	35,482	8,153	1,390	45,025
2004	40,966	7,278	2,378	50,621
2005	38,233	6,409	3,391	48,033
2006	38,913	5,724	3,489	48,125
2007	36,747	4,222	5,703	46,671
2008	39,145	3,344	4,736	47,225
2009	36,601	6,025	3,995	46,620
2010	34,553	4,250	8,563	47,365

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.2-2Y Quantity and Value of Petroleum Products Import

Description	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1. Crude Oil												
- Value (M. Baht)	21,374.7	26,833.1	21,413.9	32,592.6	42,792.3	39,854.6	48,644.4	51,024.4	55,362.6	72,121.9	121,936.8	166,545.2
- Quantity (M. Litres)	8,434.0	9,366.5	9,014.1	11,849.2	12,186.7	12,809.8	16,147.9	18,794.0	21,639.1	26,236.8	36,844.4	42,290.8
- Quantity (BBL/D)	145,335.0	161,404.0	154,906.0	204,186.0	210,001.0	220,739.0	277,502.0	323,859.0	372,886.0	452,115.0	633,170.0	728,758.0
- Value (M.US\$)	810.0	1,040.3	844.5	1,263.3	1,673.3	1,560.0	1,910.8	2,013.1	2,199.0	2,889.9	4,798.3	5,312.2
- Price (\$/BBL)	15.3	17.7	14.9	17.0	21.8	19.4	18.8	17.0	16.2	17.5	20.7	20.0
2. Petroleum Products												
- Value (M. Baht)	7,686.9	13,447.0	15,638.8	22,329.4	38,170.7	37,910.3	32,295.0	35,032.1	29,449.4	33,148.4	32,620.4	12,960.8
- Quantity (M. Litres)	2,551.0	3,984.7	5,239.7	6,360.3	9,063.2	9,400.9	9,217.3	10,408.5	9,826.5	10,483.0	8,445.9	3,083.5
- Quantity (BBL/D)	43,958.0	68,665.0	90,043.0	109,600.0	156,178.0	161,998.0	158,399.0	179,359.0	169,330.0	180,644.0	145,143.0	53,134.0
- Value (M.US\$)	291.2	521.3	617.6	866.9	1,489.9	1,484.9	1,267.2	1,380.6	1,168.8	1,328.8	1,285.9	451.6
- Price (\$/BBL)	18.2	20.8	18.7	21.7	26.1	25.1	21.9	21.1	18.9	20.2	24.2	23.3
3. Others												
- Value (M. Baht)	12.3	38.1	568.1	790.9	892.9	1,129.1	1,162.5	2,221.8	3,389.4	4,054.5	4,480.4	7,811.2
- Quantity (M. Litres)	63.4	65.3	87.2	87.6	108.8	127.2	161.4	357.5	651.4	733.1	747.0	1,382.6
- Quantity (BBL/D)	1,092.0	1,126.0	1,499.0	1,510.0	1,874.0	2,192.0	2,773.0	6,160.0	11,225.0	12,633.0	12,838.0	23,825.0
- Value (M.US\$)	0.5	1.5	22.3	30.7	34.8	44.2	45.7	87.6	134.6	162.4	176.5	258.1
- Price (\$/BBL)	1.2	3.6	40.7	55.8	50.9	55.3	45.0	39.0	32.9	35.2	37.6	29.7
4. Total Petroleum												
- Value (M. Baht)	29,073.8	40,318.2	37,620.8	55,712.8	81,855.9	78,894.0	82,102.0	88,278.3	88,201.4	109,324.9	159,037.6	187,317.2
- Quantity (M. Litres)	11,048.3	13,416.6	14,340.9	18,297.0	21,358.6	22,338.0	25,526.6	29,559.9	32,116.9	37,452.9	46,037.3	46,756.8
- Quantity (BBL/D)	190,385.0	231,195.0	246,448.0	315,296.0	368,054.0	384,929.0	438,674.0	509,379.0	553,441.0	645,391.0	791,151.0	805,716.0
- Value (M.US\$)	1,101.6	1,563.1	1,484.4	2,160.9	3,198.0	3,089.1	3,223.6	3,481.3	3,502.4	4,381.1	6,260.7	6,021.9
- Price (\$/BBL)	15.9	18.5	16.5	18.8	23.8	22.0	20.1	18.7	17.3	18.6	21.6	20.5

Source : Department of Energy Business (DOEB)
 Compiled by : Energy Policy and Planning Office (EPPO)
 Remarks : Excluding Lube Oil and Grease

Table 2.1.2-2Y Quantity and Value of Petroleum Products Import (Cont.)

Description	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
1. Crude Oil													
- Value (M. Baht)	137,100.4	169,633.0	285,862.0	284,373.3	286,952.7	346,056.8	486,627.4	644,933.3	753,782.9	715,789.3	1,002,667.3	623,023.9	751,496.0
- Quantity (M. Litres)	39,445.6	40,557.9	39,169.9	41,341.6	42,277.7	45,024.8	50,621.2	48,032.7	48,125.4	46,671.3	47,225.0	46,620.2	47,365.3
- Quantity (BBL/D)	679,729.0	698,896.0	673,134.0	712,401.0	728,532.0	775,870.0	869,925.0	827,702.0	829,300.0	804,242.0	811,561.0	803,362.0	816,201.0
- Value (M.US\$)	3,277.2	4,442.9	7,042.7	6,365.4	6,663.7	8,309.6	12,037.8	15,932.4	19,824.4	20,706.9	30,131.3	18,150.4	23,676.9
- Price (\$/BBL)	13.2	17.4	28.6	24.5	25.1	29.3	37.8	52.7	65.5	70.5	101.4	61.9	79.5
2. Petroleum Products													
- Value (M. Baht)	5,189.6	9,727.8	9,160.4	3,910.6	7,391.2	8,909.1	15,774.5	29,362.6	23,513.8	15,409.3	21,353.8	21,749.7	43,078.0
- Quantity (M. Litres)	1,406.9	2,069.5	1,300.2	469.5	981.5	998.0	1,715.0	2,164.7	1,503.7	932.2	1,229.0	1,887.8	3,219.4
- Quantity (BBL/D)	24,243.0	35,661.0	22,344.0	8,090.0	16,913.0	17,197.0	29,473.0	37,303.0	25,912.0	16,063.0	21,120.0	32,530.0	55,476.0
- Value (M.US\$)	127.7	254.7	237.2	87.4	171.0	214.0	394.6	728.6	615.0	445.4	640.4	635.4	1,359.0
- Price (\$/BBL)	14.4	19.6	29.0	29.6	27.7	34.1	36.6	53.5	65.0	76.0	82.8	53.5	67.1
3. Other													
- Value (M. Baht)	5,348.3	5,394.1	29,867.2	26,757.0	20,462.4	24,259.1	28,902.3	30,462.2	38,867.3	34,841.6	19,708.8	7,366.4	25,419.6
- Quantity (M. Litres)	921.1	1,148.4	4,141.5	3,924.8	3,011.1	2,999.5	2,837.2	2,417.5	2,630.6	2,208.8	1,039.3	699.7	1,768.9
- Quantity (BBL/D)	15,873.0	19,789.0	71,172.0	67,632.0	51,888.0	51,687.0	48,756.0	41,659.0	45,330.0	38,061.0	17,860.0	12,058.0	30,483.0
- Value (M.US\$)	129.4	141.4	747.1	601.9	475.4	580.8	716.0	755.0	1,019.7	1,008.0	598.4	212.0	800.3
- Price (\$/BBL)	22.3	19.6	28.7	24.4	25.1	30.8	40.1	49.7	61.6	72.6	91.5	48.2	71.9
4. Total Petroleum													
- Value (M. Baht)	147,638.4	184,754.9	324,889.5	315,040.9	314,806.3	379,225.0	531,304.2	704,758.1	816,164.0	766,040.2	1,043,729.9	652,140.0	819,993.5
- Quantity (M. Litres)	41,773.6	43,775.7	44,611.6	45,735.8	46,270.3	49,022.3	55,173.4	52,614.9	52,259.7	49,812.2	49,493.3	49,207.6	52,353.6
- Quantity (BBL/D)	719,845.0	754,346.0	766,649.0	788,123.0	797,333.0	844,755.0	948,154.0	906,663.0	900,542.0	858,367.0	850,541.0	847,949.0	902,160.0
- Value (M.US\$)	3,534.4	4,839.0	8,027.0	7,054.7	7,310.1	9,104.4	13,148.4	17,416.0	21,459.2	22,160.3	31,370.0	18,997.9	25,836.1
- Price (\$/BBL)	13.5	17.6	28.6	24.5	25.1	29.5	37.9	52.6	65.3	70.7	100.8	61.4	78.5

Source : Department of Energy Business (DOEB)
 Compiled by : Energy Policy and Planning Office (EPPO)
 Remarks : Excluding Lube Oil and Grease

Table 2.1.3-1Y Quantity and Value of Petroleum Products Export

Description	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
1. Crude Oil											
- Value (M. Baht)											
- Quantity (M. Litres)											
- Quantity (BBL/D)											
- Value (M.US\$)											
- Price (\$/BBL)											
2. Petroleum Products											
- Value (M. Baht)											
- Quantity (M. Litres)	9.47	23.75	34.56	194.51	472.50	412.75	810.40	4,399.43	6,350.68	5,851.66	7,100.70
- Quantity (BBL/D)	163.00	409.00	596.00	3,343.00	8,142.00	7,112.00	13,965.00	75,604.00	109,435.00	100,836.00	122,360.00
- Value (M.US\$)											
- Price (\$/BBL)											
3. Others											
- Value (M. Baht)											
- Quantity (M. Litres)			9.04	399.66	480.85	308.65	456.87	415.90	451.32	410.85	718.39
- Quantity (BBL/D)			156.00	6,868.00	8,286.00	5,319.00	7,873.00	7,147.00	7,777.00	7,080.00	12,379.00
- Value (M.US\$)											
- Price (\$/BBL)											
4. Total Petroleum											
- Value (M. Baht)											
- Quantity (M. Litres)	9.47	23.75	43.60	594.16	953.35	721.39	1,267.27	4,955.29	6,802.00	6,262.51	7,839.15
- Quantity (BBL/D)	163.00	409.00	751.00	10,211.00	16,428.00	12,431.00	21,838.00	85,157.00	117,212.00	107,916.00	135,085.00
- Value (M.US\$)											
- Price (\$/BBL)											

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.3-1Y Quantity and Value of Petroleum Products Export (Cont.)

Description	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
1. Crude Oil											
- Value (M. Baht)	14,448.50	18,075.02	29,355.84	33,883.08	52,858.33	56,834.78	45,811.90	56,575.07	27,409.67	26,107.31	
- Quantity (M. Litres)	1,749.75	2,216.18	3,876.48	3,287.85	3,805.71	3,797.65	3,020.28	2,668.79	2,383.15	1,738.44	
- Quantity (BBL/D)	30,069.00	38,189.00	66,800.00	56,502.00	65,580.00	65,441.00	52,046.00	45,863.00	41,067.00	29,957.00	
- Value (M.US\$)	324.22	420.60	703.76	836.35	1,300.09	1,494.26	1,324.73	1,703.53	797.72	821.84	
- Price (\$/BBL)	23.26	24.87	28.86	40.44	54.31	62.56	69.73	101.49	53.22	75.16	
2. Petroleum Products											
- Value (M. Baht)				70,954.44	99,398.18	138,062.55	127,171.65	225,446.99	174,515.78	198,590.18	
- Quantity (M. Litres)	6,393.56	6,916.20	7,132.47	6,129.89	7,004.38	7,092.74	7,746.61	10,403.64	11,681.60	11,957.35	
- Quantity (BBL/D)	109,873.00	119,180.00	122,907.00	105,631.00	120,370.00	144,739.00	133,490.00	178,786.00	201,298.00	206,050.00	
- Value (M.US\$)				1,753.33	2,440.45	3,637.40	3,683.57	6,765.35	5,089.58	6,284.87	
- Price (\$/BBL)				39.80	54.70	68.85	75.60	103.39	69.27	83.57	
3. Others											
- Value (M. Baht)				15,504.54	12,135.82	22,863.33	31,904.92	34,936.97	30,770.25	33,273.94	
- Quantity (M. Litres)	1,026.48	1,009.63	963.81	1,342.06	1,473.34	1,019.77	1,527.38	2,128.50	2,268.05	2,239.99	
- Quantity (BBL/D)	17,640.00	17,398.00	16,608.00	23,127.00	25,319.00	17,573.00	26,320.00	36,678.00	38,976.00	34,715.00	
- Value (M.US\$)				384.48	299.71	602.41	923.28	1,042.18	899.58	1,050.85	
- Price (\$/BBL)				41.49	46.73	62.71	68.97	73.06	63.85	82.93	
4. Total Petroleum											
- Value (M. Baht)	14,448.50	18,075.02	29,355.84	120,342.06	164,392.34	217,760.66	204,888.47	316,959.02	232,695.70	257,971.43	
- Quantity (M. Litres)	9,169.79	10,142.01	10,785.15	11,348.43	11,765.57	11,918.21	13,724.41	12,895.39	15,340.48	16,304.74	
- Quantity (BBL/D)	157,583.00	174,768.00	185,850.00	195,557.00	202,191.00	205,375.00	222,214.00	263,626.00	280,964.00	270,722.00	
- Value (M.US\$)	324.22	420.60	703.76	2,974.16	4,040.26	5,734.06	5,931.58	9,511.06	6,786.89	8,157.55	
- Price (\$/BBL)	5.08	6.20	9.86	40.19	53.90	66.43	73.13	98.57	66.18	82.55	

Source : Department of Energy Business (DOEB)
 Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.2-1Y Refining Capacity

Unit : Barrels/Day

Company	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
ESSO	69,680	69,680	69,680	69,680	69,680	69,680	145,000	145,000	145,000	145,000	145,000	145,000
BCP	65,000	65,000	65,000	68,000	68,000	68,000	80,000	120,000	120,000	120,000	120,000	120,000
TOC	65,000	65,000	65,000	83,500	83,500	83,500	183,500	183,500	210,000	210,000	210,000	210,000
FANG	1,000	1,000	1,000	1,100	1,100	1,100	1,200	1,400	1,700	1,700	2,500	2,500
IRPC/TPI											65,000	65,000
PTTAR / RRC											145,000	145,000
STRC											130,000	130,000
RPC												
Total	200,680	200,680	200,680	222,280	222,280	222,280	409,700	449,900	476,700	476,700	817,500	817,500

Company	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
ESSO	145,000	145,000	145,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	170,000	170,000	170,000
BCP	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000
TOC	210,000	210,000	210,000	210,000	210,000	210,000	210,000	220,000	220,000	220,000	275,000	275,000	275,000
FANG	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
IRPC/TPI	65,000	65,000	65,000	215,000	215,000	215,000	215,000	215,000	215,000	215,000	215,000	215,000	215,000
PTTAR / RRC	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	170,000	170,000	170,000
STRC	130,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	150,000	150,000	150,000
RPC	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000
Total	834,500	849,500	849,500	1,014,500	1,014,500	1,014,500	1,014,500	1,024,500	1,024,500	1,024,500	1,119,500	1,119,500	1,119,500

Source by : Department of Mineral Fuels (DMF)

Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.2-2Y Material Intake by Refinery

Unit : BBLD

Year	Thai Oil	Bangchak	ESSO	IRPC/TPI	PTTAR/RRC	SPRC	RPC	Total
1986	69,765	42,772	61,632					174,169
1987	68,442	43,969	65,991					178,401
1988	69,263	48,994	65,929					184,186
1989	96,972	50,732	77,716					225,420
1990	103,611	64,837	72,354					240,803
1991	105,693	69,242	73,691					248,626
1992	150,198	77,025	78,409					305,631
1993	192,327	90,489	74,903					357,719
1994	209,436	107,774	96,810					414,020
1995	214,493	110,400	150,404	10,192				485,490
1996	194,645	97,795	150,675	36,179	104,224	75,488		659,006
1997	205,889	98,563	144,951	49,631	132,081	136,346		767,461
1998	187,864	91,296	120,497	56,076	129,590	130,875	5,611	721,808
1999	164,056	95,091	118,480	58,917	147,630	150,265	7,518	741,957
2000	169,385	85,597	134,558	65,953	142,983	142,948	8,205	749,629
2001	192,555	73,819	135,659	66,769	138,253	138,253	10,706	756,014
2002	204,849	72,709	126,901	129,884	142,159	142,159	9,028	827,688
2003	225,616	74,655	136,917	127,116	135,347	135,347	11,093	846,091
2004	223,125	90,113	129,869	178,104	146,469	147,073	11,097	925,850
2005	226,465	62,738	152,965	178,124	138,709	138,709	11,487	909,198
2006	229,326	57,070	150,485	169,417	153,689	153,689	11,822	925,498
2007	208,907	65,827	148,266	189,299	147,782	147,702	12,976	920,759
2008	272,648	73,540	141,046	171,788	127,455	127,455	11,498	925,432
2009	268,177	85,098	137,506	140,469	142,634	152,514	10,234	936,633
2010	255,423	88,575	124,933	173,097	146,312	162,738	10,686	961,764

Remark : Since mid of December 2007 RRC merged with ATC to form PTTAR.

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.1-1Y Production of Petroleum Products

Unit : Million Litres

Year	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
1986	2,245.3	1,319.9	925.4	130.1	3,588.1	75.4	1,151.2	2,183.8	1,078.5	10,452.3
1987	2,425.2	1,418.3	1,006.9	135.8	3,642.1	93.8	1,140.8	2,202.3	1,026.4	10,666.4
1988	2,533.5	1,443.9	1,089.6	120.4	3,366.6	93.1	1,307.1	2,575.4	1,120.8	11,116.8
1989	2,757.1	1,601.3	1,155.8	131.0	4,075.0	127.6	1,662.6	3,403.4	882.5	13,039.2
1990	3,044.9	1,777.2	1,267.7	140.1	4,305.4	121.6	1,778.1	3,540.1	1,347.1	14,277.2
1991	3,106.1	1,919.5	1,186.6	100.2	4,655.4	139.2	1,856.0	3,587.6	1,817.3	15,261.7
1992	3,751.3	2,270.6	1,480.6	121.6	5,936.3	157.3	2,083.5	4,328.7	2,113.1	18,491.7
1993	4,603.2	2,442.2	2,161.0	124.6	7,069.9	204.0	2,321.4	4,739.5	2,304.0	21,366.6
1994	5,025.0	2,034.7	2,990.3	120.6	8,218.6	214.3	2,700.4	5,763.6	2,264.7	24,307.2
1995	6,181.6	2,247.4	3,934.2	113.0	9,866.5	207.2	3,138.3	6,000.6	2,852.4	28,359.5
1996	7,969.5	2,693.4	5,276.1	189.3	13,754.5	175.4	3,572.0	8,354.1	3,493.0	37,507.7
1997	9,419.5	2,879.6	6,539.9	122.7	17,128.3	144.3	3,810.8	8,701.9	4,231.1	43,558.6
1998	8,722.1	2,798.9	5,923.2	114.9	16,326.4	111.0	3,567.4	7,846.2	4,064.0	40,751.9
1999	8,631.5	2,762.7	5,868.8	346.7	15,948.2	131.1	4,119.0	7,828.8	4,587.3	41,461.4
2000	8,086.5	3,792.3	4,294.2	491.2	15,991.3	114.4	4,347.8	6,990.7	5,168.9	41,190.8
2001	8,327.2	4,131.3	4,195.9	587.1	16,558.7	108.1	4,237.2	6,465.9	5,893.2	42,177.4
2002	8,250.8	4,305.3	3,945.5	549.6	17,418.6	101.4	4,669.9	5,979.6	5,893.6	42,863.4
2003	8,639.7	4,662.2	3,977.4	697.3	19,072.2	104.6	4,257.3	6,080.9	6,180.2	45,032.1
2004	8,957.2	4,846.3	4,110.9	1,119.5	21,127.1	116.1	4,630.8	6,721.5	6,601.2	49,273.5
2005	9,232.7	5,076.1	4,156.6	1,016.7	20,713.0	84.2	4,836.6	6,159.2	7,192.8	49,235.0
2006	9,089.9	5,034.7	4,055.2	1,041.1	21,095.3	54.0	5,602.9	6,308.1	7,230.0	50,421.2
2007	8,702.9	5,068.1	3,634.8	123.4	21,963.5	31.4	5,322.6	6,452.0	7,752.2	50,348.0
2008	8,449.0	4,900.1	3,548.9	194.9	20,765.4	3.7	6,001.9	6,873.3	8,560.3	50,848.3
2009	8,852.1	5,190.3	3,661.8	92.9	22,489.0		5,975.0	6,884.2	9,146.7	53,439.8
2010	8,763.9	5,305.0	3,458.9	466.7	23,304.8		6,196.1	5,999.8	10,521.8	55,253.0

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.1-2Y Production of Petroleum Products

Unit : Barrels/Day

Year	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
1986	38,691.1	22,744.6	15,946.5	2,241.8	61,830.3	1,299.2	19,837.5	37,631.3	18,584.7	180,115.5
1987	41,791.2	24,440.2	17,350.9	2,340.1	62,760.9	1,616.3	19,658.3	37,950.1	17,686.9	183,805.0
1988	43,538.1	24,813.3	18,724.7	2,069.0	57,854.9	1,599.9	22,462.4	44,258.2	19,260.9	191,043.6
1989	47,510.5	27,593.7	19,916.8	2,257.4	70,220.6	2,198.8	28,650.0	58,647.6	15,207.2	224,693.8
1990	52,469.9	30,624.8	21,845.0	2,414.2	74,190.9	2,095.4	30,640.3	61,003.2	23,213.3	246,026.7
1991	53,524.5	33,076.9	20,447.5	1,726.6	80,222.1	2,398.7	31,982.7	61,821.7	31,315.8	262,991.7
1992	64,466.0	39,020.2	25,444.0	2,089.6	102,015.2	2,703.1	35,804.9	74,388.6	36,313.5	317,780.1
1993	79,322.6	42,084.1	37,238.4	2,147.1	121,828.9	3,515.3	40,002.5	81,671.3	39,702.6	368,190.8
1994	86,591.1	35,062.0	51,529.0	2,078.1	141,623.4	3,692.8	46,533.4	99,318.7	39,025.4	418,863.6
1995	106,521.7	38,727.3	67,794.3	1,947.2	170,020.1	3,570.4	54,079.3	103,402.7	49,152.7	488,694.3
1996	136,955.7	46,286.0	90,669.6	3,253.1	236,370.8	3,014.2	61,384.7	143,565.0	60,027.1	644,569.9
1997	162,317.4	49,621.4	112,695.9	2,114.3	295,155.9	2,486.5	65,667.9	149,951.7	72,910.5	750,605.3
1998	150,299.7	48,230.8	102,068.9	1,979.9	283,248.6	1,912.7	61,473.6	135,206.2	70,031.1	702,241.0
1999	148,738.5	47,607.0	101,131.5	5,974.3	274,820.4	2,259.1	70,978.8	134,906.3	79,048.6	714,466.5
2000	138,966.3	65,170.6	73,795.7	8,441.2	274,810.2	1,965.9	74,716.8	120,135.0	88,827.4	707,863.6
2001	143,494.8	71,190.8	72,304.0	10,116.9	285,340.5	1,862.7	73,015.7	111,420.8	101,552.0	726,805.0
2002	142,178.3	74,189.2	67,989.1	9,470.7	300,158.4	1,747.3	80,472.0	103,040.8	101,558.8	738,625.0
2003	148,879.8	80,339.3	68,538.8	12,015.9	328,653.3	1,802.4	73,362.0	104,786.4	106,497.6	775,997.2
2004	153,929.3	83,283.5	70,645.7	19,238.5	363,068.8	1,995.1	79,580.2	115,508.8	113,441.5	846,764.4
2005	159,098.4	87,471.6	71,626.8	17,519.8	356,927.7	1,450.9	83,344.6	106,135.7	123,946.7	848,421.8
2006	156,637.7	86,758.2	69,879.4	17,940.3	363,515.5	930.5	96,549.5	108,701.5	124,587.8	868,862.9
2007	149,968.9	87,333.8	62,635.1	2,126.4	378,476.4	541.0	91,719.3	111,181.2	133,586.4	867,600.4
2008	145,195.9	84,208.1	60,987.7	3,349.3	356,914.9	63.5	103,142.5	118,117.5	147,108.6	873,828.6
2009	152,539.9	89,439.5	63,100.3	1,600.8	387,531.9		102,961.5	118,628.9	157,616.5	920,879.0
2010	151,020.0	91,416.1	59,603.9	8,042.2	401,589.8		106,771.5	103,388.9	181,312.3	952,124.9

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.2-1Y Sale of Petroleum Products

Unit : Million Litres

Year	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD				
1986	2,268.9	1,336.2	932.8	143.1	5,666.7	70.3	1,369.7	2,410.2	1,179.1	13,108.0
1987	2,596.7	1,483.8	1,112.9	129.0	6,335.5	93.0	1,490.1	2,395.7	1,258.7	14,298.6
1988	2,922.9	1,623.4	1,299.5	125.6	7,187.4	97.2	1,831.7	2,735.9	1,400.7	16,301.3
1989	3,321.7	1,795.8	1,525.9	119.2	8,520.2	129.5	2,112.3	3,634.1	1,571.5	19,408.5
1990	3,686.9	1,940.6	1,746.3	123.0	9,811.1	117.0	2,292.3	5,210.1	1,716.3	22,956.6
1991	3,890.4	2,005.1	1,885.3	111.3	9,811.1	139.5	2,467.9	6,113.7	1,844.8	24,378.7
1992	4,335.0	2,117.7	2,217.3	112.3	10,194.8	158.9	2,724.2	7,271.0	2,058.5	26,854.8
1993	4,911.8	2,163.9	2,747.9	107.5	11,833.7	199.6	2,898.6	8,026.8	2,223.9	30,201.8
1994	5,591.2	2,172.6	3,418.6	113.7	13,069.1	219.7	3,133.7	8,991.1	2,403.6	33,522.0
1995	6,293.3	2,206.2	4,087.1	100.9	15,424.1	194.9	3,294.5	9,722.4	2,628.8	37,658.9
1996	6,918.1	2,076.1	4,842.0	98.4	17,665.5	161.1	3,393.0	9,653.1	2,902.5	40,791.5
1997	7,355.3	1,973.0	5,382.3	85.9	17,387.8	147.4	3,542.7	9,094.4	2,985.4	40,598.8
1998	7,168.3	2,199.2	4,969.2	55.1	15,167.2	117.8	3,314.5	7,940.5	2,757.1	36,520.4
1999	7,025.6	2,340.1	4,685.4	51.7	15,159.5	135.4	3,297.7	7,931.1	2,983.3	36,584.3
2000	6,761.6	3,334.5	3,427.1	48.8	14,868.1	105.6	3,493.7	6,373.4	3,375.4	35,026.5
2001	6,857.1	3,856.0	3,001.0	56.5	15,121.0	104.8	3,717.4	4,563.8	3,728.4	34,148.9
2002	7,326.0	4,341.4	2,984.7	61.8	15,963.6	113.2	3,777.7	4,782.7	3,881.9	35,906.9
2003	7,635.1	4,550.3	3,084.8	35.8	17,450.8	99.5	3,761.3	4,990.6	3,975.2	37,948.2
2004	7,660.7	4,631.3	3,029.3	23.3	19,519.3	104.6	4,241.9	6,064.2	4,035.1	41,648.9
2005	7,248.1	4,362.1	2,886.0	21.3	19,516.6	77.2	4,292.7	6,204.8	4,363.9	41,724.5
2006	7,215.1	4,558.9	2,656.3	19.7	18,311.8	59.2	4,518.5	5,851.3	5,074.4	41,050.0
2007	7,336.8	4,711.6	2,625.2	18.2	18,676.9	32.8	4,931.8	4,221.5	5,812.4	41,030.4
2008	7,120.6	4,311.4	2,809.2	15.7	17,633.6	9.4	4,636.5	3,287.3	6,828.4	39,531.4
2009	7,524.4	4,291.6	3,232.8	17.6	18,465.3		4,431.5	2,730.9	6,894.3	40,063.9
2010	7,416.8	4,509.2	2,907.6	15.3	18,480.1		4,711.7	2,615.2	7,587.3	40,826.2

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

* Excluding LPG used as Feedstock in Petrochemical Industry

Table 2.3.2-2Y Sale of Petroleum Products

Unit : Barrels/Day

Year	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD				
1986	39,097.8	23,025.4	16,074.0	2,465.9	97,648.9	1,211.4	23,602.7	41,532.7	20,318.3	225,878.9
1987	44,746.5	25,568.9	19,177.5	2,222.9	109,173.7	1,602.5	25,677.5	41,282.8	21,690.0	246,395.7
1988	50,229.9	27,898.1	22,331.8	2,158.4	123,515.3	1,670.3	31,477.7	47,016.3	24,071.0	280,137.8
1989	57,239.7	30,945.3	26,294.4	2,054.0	146,820.6	2,231.5	36,399.2	62,623.0	27,080.1	334,448.6
1990	63,532.9	33,440.5	30,092.3	2,119.5	169,065.5	2,016.1	39,501.0	89,780.7	29,575.3	395,589.7
1991	67,039.6	34,552.0	32,487.6	1,917.9	169,065.5	2,403.8	42,527.0	105,351.6	31,789.7	420,095.9
1992	74,496.9	36,392.6	38,104.2	1,929.8	175,197.4	2,730.6	46,815.3	124,952.0	35,375.2	461,500.5
1993	84,640.4	37,288.4	47,351.9	1,852.4	203,919.0	3,439.5	49,948.8	138,318.3	38,322.3	520,440.4
1994	96,347.9	37,438.3	58,909.5	1,959.2	225,207.5	3,785.8	54,000.1	154,935.2	41,418.9	577,654.2
1995	108,446.5	38,017.3	70,429.1	1,738.7	265,789.0	3,358.5	56,771.0	167,537.0	45,299.6	648,940.8
1996	118,887.4	35,677.7	83,209.6	1,691.0	303,581.3	2,768.5	58,308.6	165,888.3	49,879.4	701,002.8
1997	126,747.0	33,998.8	92,748.1	1,480.2	299,627.7	2,540.0	61,048.0	156,715.2	51,444.6	699,601.4
1998	123,524.6	37,896.7	85,629.5	949.4	263,392.1	2,029.9	57,115.6	136,831.2	47,510.5	629,323.5
1999	121,065.5	40,324.7	80,739.1	890.8	263,562.7	2,333.2	56,826.1	136,669.2	51,408.4	630,424.2
2000	116,197.9	57,303.3	58,894.6	838.6	257,322.7	1,814.7	60,039.1	109,526.7	58,006.1	601,929.8
2001	118,161.9	66,446.8	51,713.4	973.6	262,373.6	1,805.9	64,058.4	78,643.6	64,248.0	588,457.5
2002	126,242.1	74,811.2	51,432.5	1,064.9	277,038.1	1,950.6	65,097.5	82,415.7	66,893.1	618,751.4
2003	131,568.5	78,411.0	53,157.4	616.9	302,427.9	1,714.5	64,814.9	85,998.3	68,500.9	653,927.5
2004	131,648.9	79,588.8	52,058.4	400.4	337,236.3	1,797.5	72,896.9	104,213.1	69,343.1	715,737.2
2005	124,899.7	75,167.9	49,731.7	367.0	337,641.6	1,330.3	73,972.0	106,921.5	75,199.0	718,999.6
2006	124,331.0	78,559.2	45,773.5	339.4	316,570.2	1,020.1	77,863.0	100,829.9	87,442.3	707,376.9
2007	126,428.2	81,190.5	45,237.6	313.6	322,406.7	565.2	84,985.0	72,745.1	100,159.6	707,038.8
2008	122,367.3	74,091.3	48,276.0	269.8	303,194.6	161.5	79,678.1	56,492.1	117,345.9	679,346.7
2009	129,660.9	73,953.1	55,707.8	303.2	318,195.2	318,195.2	76,363.8	47,059.0	118,803.0	690,385.4
2010	127,806.7	77,702.8	50,103.9	263.6	318,450.2	318,450.2	81,192.3	45,065.2	130,744.8	703,520.6

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

* Excluding LPG used as Feedstock in Petrochemical Industry

Table 2.3.3-1Y Import of Petroleum Products

Unit : Million Litres

Year	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD				
1986				2,154.9	2,150.4	4.5	208.6	82.3	105.2	2,550.9
1987	223.2	101.6	121.6	2,679.5	2,678.5	1.0	368.0	486.6	227.4	3,984.7
1988	375.2	195.4	179.8	3,763.4	3,763.4		545.1	285.7	270.3	5,239.6
1989	613.6	206.9	406.7	4,309.6	4,309.6		495.3	247.2	694.6	6,360.2
1990	652.7	180.3	472.4	5,590.2	5,590.2		524.2	1,777.5	518.5	9,063.2
1991	802.5	105.2	697.3	5,161.7	5,161.7		580.7	2,664.9	191.2	9,400.9
1992	1,058.7	71.2	987.6	4,294.7	4,294.7		685.2	3,175.4	3.3	9,217.3
1993	938.8	109.3	829.6	5,382.6	5,382.6		655.5	3,350.1	81.4	10,408.4
1994	833.1	416.0	417.1	4,786.4	4,786.4		524.9	3,524.1	157.9	9,826.4
1995	653.2	289.1	364.1	5,815.9	5,815.9		192.1	3,745.8	76.1	10,482.9
1996	351.9	119.9	232.1	5,133.8	5,133.8		71.9	2,741.8	146.4	8,445.8
1997	68.1	47.7	20.5	37.2	2,005.5		23.2	945.9	3.6	3,083.4
1998	25.0	16.8	8.2	716.0	716.0		1.6	661.4	2.8	1,406.8
1999	51.8	18.7	33.1	1,084.5	1,084.5		4.0	929.1		2,069.4
2000	29.1	17.7	11.4	645.5	645.5		3.0	622.6		1,300.2
2001	144.2	144.2		321.7	321.7		3.6			469.4
2002	224.2	217.4	6.9	706.5	706.5		50.8			981.4
2003	139.3	139.3		605.3	605.3		42.5	210.9		997.9
2004	192.7	169.8	22.9	713.5	713.5		49.8	753.1	5.9	1,715.0
2005				719.4	719.4		2.6	1,442.8		2,164.7
2006				364.8	364.8		33.9	1,105.0		1,503.7
2007	162.1	135.2	26.9	191.0	191.0		42.8	536.3		932.1
2008				89.6	89.6		47.9	254.3	837.2	1,229.0
2009	14.1	14.1		385.3	385.3		10.5	83.2	1,394.7	1,887.7
2010				61.2	61.2		3.3	101.2	3,053.6	3,219.3

Source: Department of Energy Business (DOEB)
 Compiled by : Energy Policy and Planning Office (EPPO)
 *Including Propane and Butane

Table 2.3.3-2Y Import of Petroleum Products

Unit : Barrels/Day

Year	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD				
1986				37,133.3	37,055.8	77.5	3,594.6	1,418.1	1,812.8	43,958.4
1987	3,846.1	1,750.7	2,095.4	46,173.3	46,156.0	17.2	6,341.4	8,385.1	3,918.5	68,664.7
1988	6,447.8	3,357.9	3,089.8	64,673.9	64,673.9		9,367.5	4,909.7	4,645.1	90,043.3
1989	10,573.5	3,565.3	7,008.2	74,263.3	74,263.3		8,535.0	4,259.7	11,969.3	109,600.2
1990	11,247.3	3,106.9	8,140.4	96,330.6	96,330.6		9,033.0	30,629.9	8,934.8	156,178.0
1991	13,828.7	1,812.8	12,015.9	88,946.7	88,946.7		10,006.6	45,921.7	3,294.7	161,997.6
1992	18,193.7	1,223.5	16,971.8	73,804.3	73,804.3		11,775.1	54,569.1	56.7	158,399.4
1993	16,177.4	1,883.4	14,295.7	92,753.3	92,753.3		11,295.6	57,729.1	1,402.6	179,359.2
1994	14,356.0	7,168.5	7,187.4	82,479.5	82,479.5		9,045.1	60,727.5	2,720.9	169,330.2
1995	11,255.9	4,981.7	6,274.1	100,219.9	100,219.9		3,310.2	64,547.8	1,311.3	180,643.5
1996	6,047.3	2,060.4	3,988.6	88,224.2	88,224.2		1,235.6	47,117.7	2,515.8	145,142.4
1997	1,173.5	821.9	353.2	34,558.9	34,558.9		399.7	16,299.8	62.0	53,134.2
1998	430.8	289.4	141.3	12,338.1	12,338.1		27.5	11,397.2	48.2	24,242.8
1999	892.6	322.2	570.3	18,688.1	18,688.1		68.9	16,010.3		35,661.3
2000	500.0	304.1	195.9	11,092.9	11,092.9		51.5	10,699.3		22,343.9
2001	2,484.8	2,484.8		5,543.5	5,543.5		62.0			8,089.8
2002	3,863.4	3,746.2	118.9	12,174.4	12,174.4		875.3			16,913.0
2003	2,400.4	2,400.4		10,430.5	10,430.5		732.3	3,634.2		17,197.1
2004	3,311.5	2,918.0	393.5	12,261.4	12,261.4		855.8	12,942.0	101.3	29,472.5
2005				12,396.7	12,396.7		44.8	24,862.4		37,302.8
2006				6,286.2	6,286.2		584.1	19,041.4		25,911.9
2007	2,793.3	2,329.7	463.5	3,291.3	3,291.3		737.5	9,241.5		16,062.7
2008				1,539.7	1,539.7		823.1	4,370.1	14,387.2	21,120.3
2009	242.9	242.9		6,639.5	6,639.5		180.9	1,433.7	24,033.5	32,529.7
2010				1,054.6	1,054.6		56.8	1,743.8	52,619.8	55,476.0

Source: Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

*Including Propane and Butane

Table 2.3.4-1Y Export of Petroleum Products

Unit : Million Litres

Year	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD				
1989	4.1	3.9	0.2	5.4	5.4					9.4
1990	9.3	8.5	0.8	14.5	14.5					23.7
1991	16.7	16.0	0.7	17.4	17.4		0.3		0.2	34.5
1992	105.6	104.5	1.1	23.3	23.3		6.2		59.4	194.5
1993	304.2	301.5	2.7	54.1	54.1		7.2	19.5	87.2	472.5
1994	239.4	235.1	4.2	71.2	71.2		9.6	25.5	27.0	373.0
1995	274.0	255.8	18.2	87.3	87.3		13.6	44.5	187.9	607.5
1996	1,236.8	705.3	531.5	1,071.1	1,071.1		195.4	1,014.8	364.5	3,921.5
1997	1,948.7	935.0	1,013.6	1,953.1	1,953.1		277.5	715.2	873.6	5,781.7
1998	1,716.1	635.8	1,080.3	26.3	2,203.2		236.8	199.4	873.3	5,255.0
1999	1,708.5	486.3	1,222.3	302.2	1,976.0		820.8	330.8	1,346.1	6,484.3
2000	1,102.3	329.9	772.4	391.7	1,676.8		816.4	769.3	1,240.5	5,996.9
2001	1,480.6	382.8	1,097.8	394.7	1,642.8	3.5	487.8	1,503.6	1,403.3	6,916.2
2002	1,230.4	220.9	1,009.5	318.5	2,331.6		920.7	766.8	1,269.9	6,837.8
2003	1,108.3	251.1	857.3	109.4	2,148.2		558.0	779.9	1,426.1	6,129.8
2004	1,359.5	316.5	1,043.0	58.9	2,381.6		367.1	1,078.3	1,648.6	6,893.9
2005	2,021.9	738.5	1,283.4	3.8	1,809.0		599.3	903.4	1,755.3	7,092.7
2006	1,921.9	514.4	1,407.5	34.0	2,940.5		1,017.3	1,418.6	1,067.2	8,399.3
2007	1,578.9	543.2	1,035.7	37.2	2,689.5		449.0	2,478.0	514.0	7,746.6
2008	1,478.4	648.0	830.4	108.6	3,806.3		1,346.8	3,624.3	39.3	10,403.6
2009	1,351.1	903.9	447.2	19.0	4,796.5		1,609.3	3,878.0	27.8	11,681.6
2010	1,341.8	801.8	539.9	426.1	5,505.3		1,404.5	3,234.0	45.7	11,957.3

Source: Department of Energy Business (DOEB)
 Compiled by : Energy Policy and Planning Office (EPPO)
 *Including Propane and Butane

Table 2.3.4-2Y Export of Petroleum Products

Unit : Barrels/Day

Year	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD				
1989	70.6	67.2	3.4	93.0	93.0					163.1
1990	160.2	146.4	13.7	249.8	249.8					409.3
1991	287.7	275.7	12.0	299.8	299.8		5.1		3.4	595.5
1992	1,814.7	1,795.8	18.9	400.4	400.4		106.5		1,020.7	3,342.5
1993	5,241.9	5,195.4	46.5	5.1	932.2		124.0	336.0	1,502.6	8,142.2
1994	4,125.3	4,051.2	72.3	6.8	1,226.9		165.4	439.4	465.2	6,428.9
1995	4,721.5	4,407.9	313.6	5.1	1,504.3		234.3	766.8	3,237.9	10,468.9
1996	21,254.3	12,120.5	9,133.8	671.9	18,406.8		3,357.9	17,439.3	6,263.9	67,391.3
1997	33,580.1	16,111.9	17,466.4	236.0	33,655.9		4,781.8	12,324.3	15,053.9	99,631.5
1998	29,571.9	10,956.1	18,615.8	453.2	37,965.6		4,080.5	3,436.0	15,048.7	90,555.1
1999	29,440.9	8,379.9	21,062.7	5,207.5	34,050.5		14,144.0	5,700.3	23,196.0	111,739.2
2000	18,943.0	5,669.3	13,273.6	6,731.3	28,815.7		14,029.8	13,220.4	21,317.9	103,056.6
2001	25,513.7	6,596.4	18,917.3	6,801.4	28,367.4	60.3	8,405.8	25,910.1	24,181.7	119,180.4
2002	21,202.3	3,806.5	17,395.7	5,488.4	40,178.2		15,865.5	13,213.5	21,882.9	117,830.0
2003	19,098.2	4,326.9	14,773.0	1,885.1	37,017.9		9,615.4	13,439.2	24,574.6	105,630.5
2004	23,362.9	5,439.0	17,923.9	1,012.1	40,927.7		6,308.6	18,530.5	28,331.1	118,471.6
2005	34,841.5	12,725.8	22,115.6	65.4	31,172.8		10,327.1	15,567.4	30,247.4	122,222.5
2006	33,118.3	8,864.1	24,254.1	585.8	50,670.8		17,530.1	24,445.4	18,390.0	144,738.6
2007	27,207.7	9,360.4	17,847.2	641.0	46,345.6		7,737.1	42,701.0	8,857.2	133,490.1
2008	25,406.2	11,135.8	14,270.4	1,866.2	65,411.2		23,144.7	62,283.5	675.3	178,786.3
2009	23,282.2	15,576.0	7,706.1	327.4	82,653.6		27,731.5	66,825.9	479.0	201,298.1
2010	23,121.9	13,816.6	9,303.5	7,342.5	94,867.6		24,202.4	55,728.4	787.5	206,049.7

Source: Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

*Including Propane and Butane

Table 2.4-1Y Demand and Supply of Crude Oil and Oil Products

Unit : Barrels/Day

Year	Crude Oil Balance			Oil Products			Oil Products						
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others	Export	Demand
1986	34,304	145,335		174,169	183,904	45,050	228,954	231,709	39,098	98,860	93,750		231,709
1987	31,917	161,404		178,401	187,458	69,790	257,249	252,520	44,746	110,775	96,998		252,520
1988	37,099	154,906		184,185	194,912	91,542	286,454	286,767	50,230	125,185	111,352		286,767
1989	39,792	204,185		225,420	228,735	111,109	339,845	341,587	57,240	149,051	135,295	169	341,756
1990	43,238	210,001		240,803	250,755	158,052	408,808	411,876	63,533	171,080	177,262	415	412,291
1991	46,256	220,739		248,626	268,647	164,190	432,837	437,149	67,038	171,469	198,640	760	437,909
1992	52,846	277,501		305,631	343,165	161,172	504,338	485,489	74,496	177,929	233,063	10,240	495,730
1993	53,718	323,859		357,718	399,453	185,519	584,972	548,503	84,640	207,358	256,504	16,488	564,991
1994	57,167	372,885	683	414,020	449,449	180,554	630,004	605,282	96,347	228,993	279,940	11,831	617,113
1995	53,727	452,114	3,495	485,490	524,431	193,276	717,707	676,847	108,446	269,148	299,252	18,448	695,296
1996	62,057	633,170	8,212	659,005	692,378	157,980	850,358	749,315	118,886	306,349	324,078	77,036	826,351
1997	72,263	728,757	9,803	767,460	807,783	76,958	884,742	799,152	126,747	302,167	370,237	103,970	903,123
1998	75,760	679,728	10,281	721,808	761,043	40,115	801,159	727,514	123,525	263,391	340,597	93,930	821,445
1999	83,636	698,895	10,620	741,956	795,171	55,450	850,621	762,447	121,065	263,562	377,819	121,228	883,675
2000	110,157	673,133	36,885	749,629	822,770	93,515	916,285	741,781	116,198	257,322	368,260	122,707	864,489
2001	113,760	712,400	38,189	756,013	842,636	75,722	918,358	727,146	118,161	262,373	346,612	138,653	865,800
2002	129,291	728,532	51,411	827,688	855,821	68,800	924,622	758,288	126,242	277,037	355,007	135,555	893,844
2003	158,985	775,870	66,799	846,091	906,018	68,884	974,902	804,224	131,569	302,428	370,227	126,489	930,714
2004	153,719	869,924	58,400	925,850	930,528	78,228	1,008,757	857,237	131,648	337,236	388,352	140,161	997,399
2005	183,377	827,701	65,580	909,197	916,713	78,961	995,675	860,396	124,899	337,641	397,856	137,029	997,426
2006	204,199	829,300	65,441	925,497	939,220	71,241	1,010,462	847,874	124,331	316,570	406,972	171,896	1,019,770
2007	213,408	804,242	52,045	920,759	944,775	54,124	998,899	845,859	126,427	322,406	397,025	169,540	1,015,399
2008	228,828	811,560	45,863	925,432	957,292	38,980	996,273	805,770	122,368	303,194	380,208	210,711	1,016,482
2009	237,941	803,361	41,066	936,633	1,016,306	44,587	1,060,894	828,472	129,660	318,195	380,617	240,405	1,068,878
2010	241,801	816,201	29,956	961,763	1,053,276	85,958	1,139,235	880,692	127,806	318,449	434,436	241,321	1,122,014

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.4-2Y Demand and Supply of LPG, Propane and Butane

Unit : Thousand Tons

Description	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Total Supply	639	677	751	852	1,007	1,085	1,273	1,478	1,455	1,743	2,110	2,513
- Production	582	554	605	477	727	981	1,272	1,434	1,369	1,702	2,031	2,511
GSP	445	405	438	287	520	778	965	1,043	915	978	1,070	1,170
Refinery	137	150	168	190	207	203	307	391	455	673	888	1,002
Others										52	73	340
- Import	57	123	146	375	280	103	2	44	85	41	79	2
Total Demand	637	680	756	849	927	996	1,229	1,351	1,439	1,639	2,031	2,368
- Consumption	637	680	756	849	927	996	1,197	1,304	1,424	1,538	1,834	1,896
Cooking	388	459	582	666	717	717	787	864	953	1,056	1,171	1,225
Industry	62	71	79	95	108	125	156	176	206	235	262	275
Automobile	187	150	96	88	102	154	169	160	139	128	134	112
Feedstock							85	103	126	118	266	284
Own Use												
- Feedstock												
- Energy												
- Export							32	47	15	101	197	472
Balance (Supply-Demand)	2	-3	-5	3	81	88	45	126	16	104	80	145

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.4-2Y Demand and Supply of LPG, Propane and Butane (Cont.)

Unit : Thousand Tons

Description	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Total Supply	2,417	2,692	3,011	3,428	3,434	3,607	3,821	4,177	4,159	4,469	4,803	5,217	6,061
- Production	2,415	2,692	3,011	3,428	3,434	3,607	3,818	4,177	4,159	4,469	4,351	4,463	4,412
GSP	1,186	1,232	1,401	1,785	1,850	1,918	1,960	2,297	2,260	2,571	2,574	2,622	2,603
Refinery	924	1,083	1,283	1,480	1,421	1,478	1,650	1,581	1,585	1,567	1,684	1,766	1,726
Others	305	377	327	164	163	211	208	298	314	332	93	75	83
- Import	2						3				452	753	1,649
Total Demand	2,372	2,663	2,954	3,339	3,310	3,505	3,662	4,047	4,094	4,393	4,810	5,223	5,968
- Consumption	1,901	1,936	2,284	2,569	2,624	2,735	2,772	3,099	3,518	4,116	4,788	5,208	5,943
Cooking	1,130	1,206	1,348	1,430	1,468	1,502	1,513	1,604	1,721	1,884	2,124	2,231	2,435
Industry	266	314	313	335	399	435	441	450	511	602	658	586	769
Automobile	93	91	162	248	229	210	225	303	459	572	776	666	680
Feedstock	412	325	461	556	528	588	593	720	708	807	903	1,289	1,592
Own Use								22	119	251	328	435	466
- Feedstock								22	69	170	198	195	254
- Energy									49	81	130	240	213
- Export	472	727	670	770	686	770	890	948	576	278	21	15	25
Balance (Supply-Demand)	45	29	57	89	124	102	159	130	65	76	-6	-6	94

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)





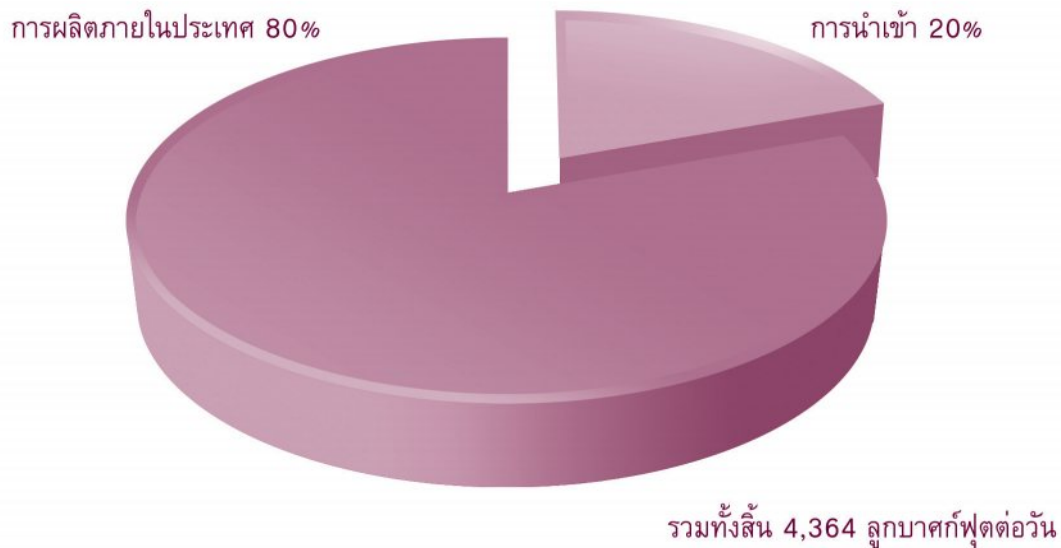
● ● Chapter 3
NATURAL GAS

● ● บทที่ 3
ก๊าซธรรมชาติ



บทที่ 3 ก๊าซธรรมชาติ

การจัดหาก๊าซธรรมชาติ ประเทศไทยเริ่มผลิตก๊าซธรรมชาติในปี 2524 จากแหล่งเอราวัณ แต่ในปัจจุบันมีแหล่งก๊าซธรรมชาติที่สำคัญเพิ่มขึ้น ได้แก่ แหล่งบงกช เจดีเอ อาทิตย และไพลิน โดยในปี 2553 การผลิตในประเทศอยู่ที่ระดับ 3,511 ล้านลูกบาศก์ฟุตต่อวัน คิดเป็นสัดส่วนร้อยละ 80 ส่วนที่เหลือร้อยละ 20 เป็นการนำเข้าจากพม่า รวมเป็นการจัดหาทั้งสิ้นอยู่ที่ระดับ 4,364 ล้านลูกบาศก์ฟุตต่อวัน

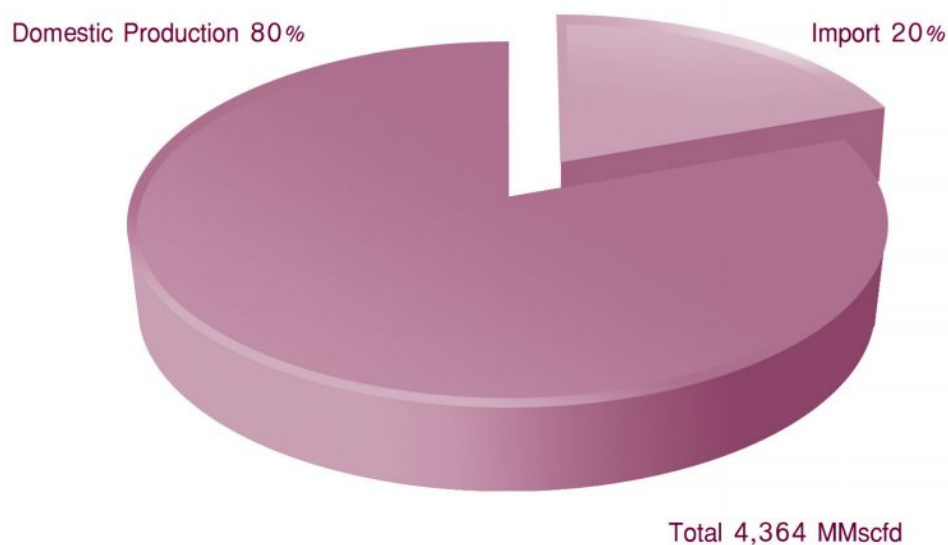


การใช้ก๊าซธรรมชาติ ในปี 2553 มีปริมาณการใช้ทั้งสิ้น 4,039 ล้านลูกบาศก์ฟุตต่อวัน ก๊าซธรรมชาติจะถูกนำไปใช้ในการผลิตไฟฟ้ามากที่สุดคือร้อยละ 68 ส่วนที่เหลือเป็นการใช้ในโรงแยกก๊าซ ร้อยละ 16 อุตสาหกรรมร้อยละ 12 และใช้ในการขนส่ง (CNG) ร้อยละ 4

Chapter 3 Natural Gas

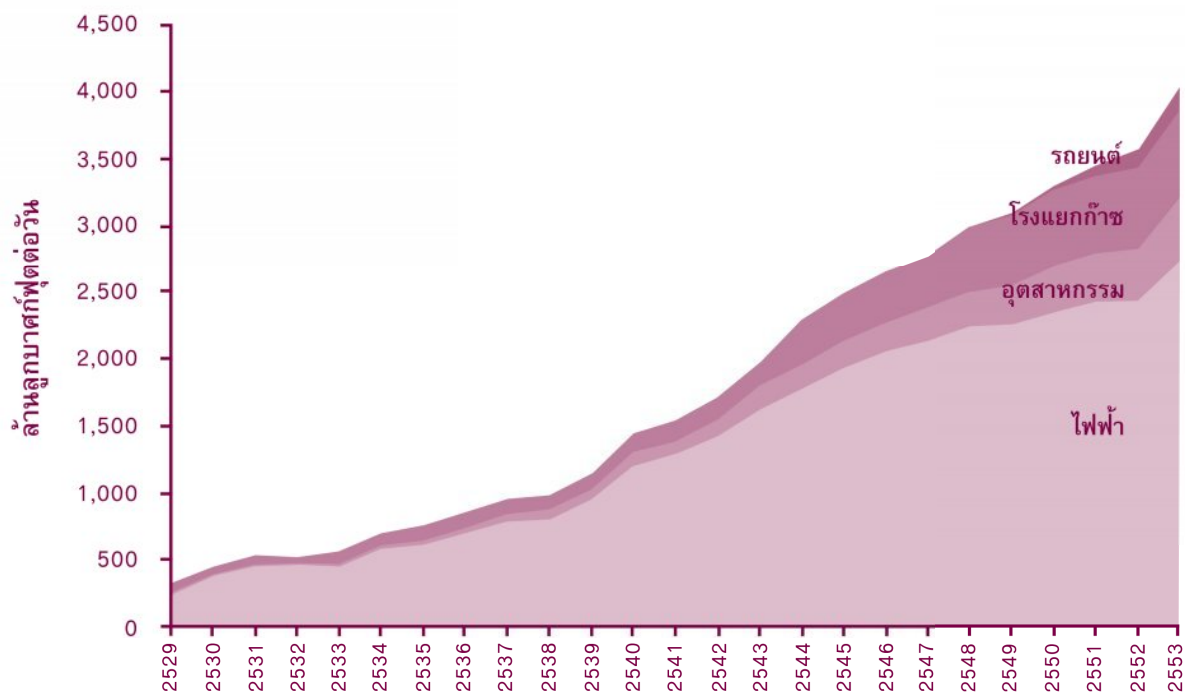


Natural Gas Supply. Natural gas production in Thailand began in 1981 from Erawan field; to date, additional major gas fields have been discovered, comprising Bong Kot, JDA (Thailand–Malaysia Joint Development Area), Arthit and Pailin. In 2010, domestic natural gas production was at a level of 3,511 million standard cubic feet per day (MMscfd), accounting for a share of 80%; the remaining 20% was imported from Myanmar, making a total natural gas supply of the country at 4,364 MMscfd.



Natural Gas Consumption. The total volume of natural gas consumption in 2010 was 4,039 MMscfd. Natural gas was mainly used as fuel in power generation, holding a share of 68% of the total consumption in the year. The remainder was used in the following: gas separation plants, at a share of 16%; the industrial sector, 12%; and the transport (CNG), 4%.

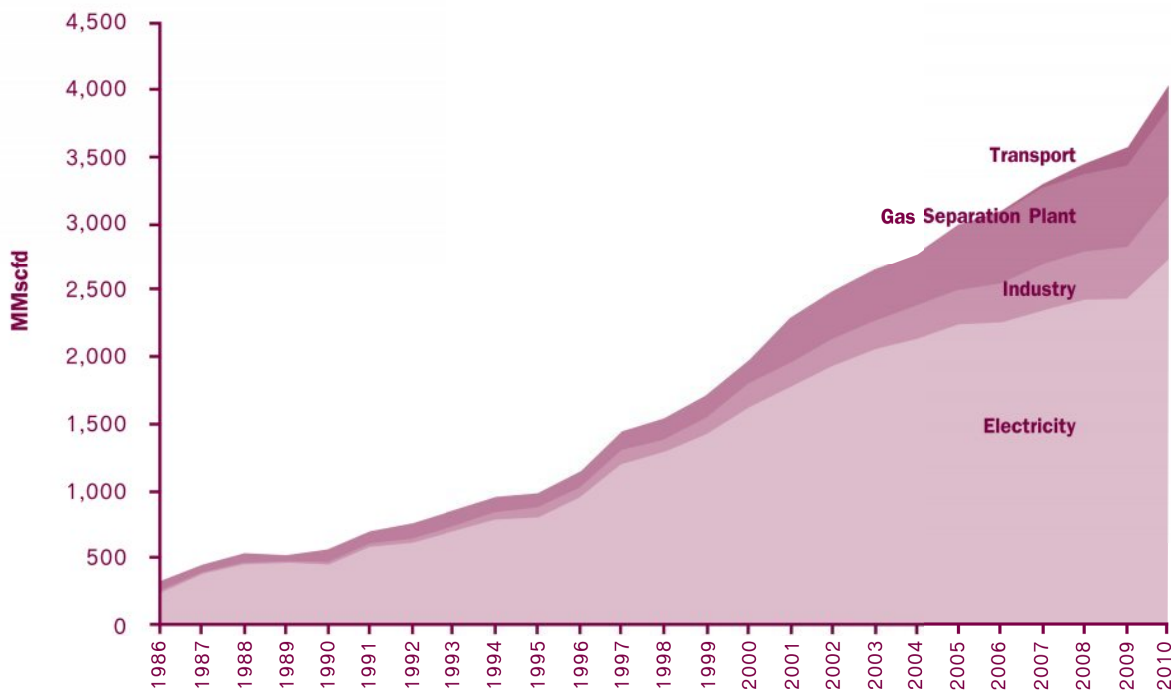
การใช้ก๊าซธรรมชาติรายสาขา



สัดส่วนการใช้ก๊าซธรรมชาติ ปี 2553



Natural Gas Consumption by Sector



Share of Natural Gas Consumption in 2010

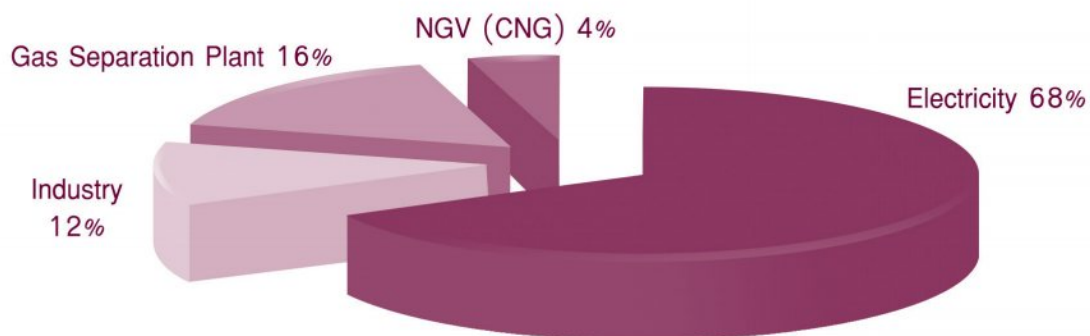


Table 3.1-1Y Production and Import of Natural Gas

Unit : MMSCFD

Year	Sirikit	Benjamas	Namphong	Erawan	Pailin	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Others	Yadana	Yetakun	Total Import	Total Domestic	Grand Total
1986	29			162		89								70				350	350
1987	31			209		170								79				489	489
1988	30			216		197								134				578	578
1989	32			221		196								129				579	579
1990	41			231		201								158				631	631
1991	43		51	284		212								192				782	782
1992	50		57	253		206			128					138				832	832
1993	56		56	290		197			162	70				110				939	939
1994	65		63	267		198			160	202				82				1,038	1,038
1995	68		64	285		195	2		152	237				95				1,099	1,099
1996	60		65	268		203	49		160	336				126				1,267	1,267
1997	61		79	294		219	50		209	344				307				1,564	1,564
1998	55		90	299		211	25		246	437				335	2		2	1,698	1,700
1999	56	27	93	306	61	171	16		253	578				299	2		2	1,860	1,861
2000	59	97	71	278	234	125	24		208	548				304	128	36	164	1,948	2,113
2001	57	118	60	266	212	118	9		199	584				275	377	119	496	1,900	2,396
2002	56	152	59	266	298	114	9		228	566		11		229	418	199	617	1,986	2,603
2003	55	169	50	281	406	96	45		189	516		30		241	410	275	686	2,077	2,763
2004	54	147	35	274	412	104	64		187	597		24		259	439	287	726	2,158	2,884
2005	60	157	33	277	435	118	47		221	605		41		297	431	426	857	2,292	3,149
2006	50	159	31	278	438	90	27	6	263	627		41		343	452	417	869	2,353	3,222
2007	46	172	26	278	457	108	13	93	309	629		65		319	473	433	906	2,515	3,421
2008	41	147	23	275	431	101	14	85	286	604	278	100	126	268	434	394	828	2,778	3,606
2009	54	86	20	244	417	64	24	81	177	540	418	110	441	315	409	394	803	2,990	3,794
2010	63	76	18	256	430	82	85	87	199	596	501	95	649	374	434	419	853	3,511	4,364

Remarks : Heat Value of NG from Myanmar = 1,000 BTU/SCF

Source : Department of Mineral Fuels (DMF)

Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-1Y Distribution of NGL

Year	(Million Litres)				(Barrels)				(Barrels/Day)			
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total
1988		131	6	138		826,823	39,455	866,279		2,259	107	2,366
1989		75	4	79		470,285	25,025	495,310		1,288	68	1,357
1990	5	133	2	140	30,442	836,226	11,708	878,376	83	2,291	32	2,406
1991	85	113	12	211	537,469	712,688	74,725	1,324,883	1,472	1,952	204	3,629
1992	152	47	20	219	953,609	295,856	125,815	1,375,281	2,605	808	343	3,757
1993	140	73	31	244	879,449	461,695	195,308	1,536,452	2,409	1,264	535	4,209
1994	67	113	43	223	419,846	711,359	273,465	1,404,672	1,150	1,948	749	3,848
1995	96	94	37	227	602,360	588,716	234,949	1,426,026	1,650	1,612	643	3,906
1996	33	165	57	255	205,600	1,040,130	358,172	1,603,903	561	2,841	978	4,382
1997	153	28	154	335	961,815	175,920	968,882	2,106,618	2,635	481	2,654	5,771
1998	178	18	164	360	1,118,416	113,311	1,031,602	2,263,330	3,064	310	2,826	6,200
1999	199	27	171	396	1,249,394	169,719	1,073,063	2,492,177	3,423	464	2,939	6,827
2000	149	23	331	503	938,176	146,385	2,079,331	3,163,893	2,563	399	5,681	8,644
2001	106	55	395	556	669,375	343,469	2,482,794	3,495,640	1,833	941	6,802	9,577
2002	57		489	546	358,911		3,077,307	3,436,219	983		8,430	9,414
2003	49	107	486	642	310,746	675,638	3,054,569	4,040,954	851	1,851	8,368	11,071
2004	79	116	429	624	499,812	728,529	2,695,422	3,923,764	1,365	1,990	7,364	10,720
2005	176	6	543	724	1,106,817	34,611	3,415,103	4,556,531	3,032	94	9,356	12,483
2006	129	57	547	733	808,290	359,473	3,441,850	4,609,614	2,214	984	9,429	12,629
2007	133	6	650	789	834,411	38,387	4,090,011	4,962,810	2,286	105	11,205	13,596
2008	142		672	814	894,079		4,226,379	5,120,458	2,442		11,547	13,990
2009	114		676	790	717,208		4,253,688	4,970,897	1,964		11,653	13,618
2010	135		675	810	847,872		4,248,358	5,096,231	2,322		11,639	13,962

Source : PTT
Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-2Y Consumption of Natural Gas by Sector

Unit : MMSCFD

Year	Electricity				Industry	GSP	NGV	Grand Total
	EGAT	IPP	SPP	Total				
1986	246			246	10	71		326
1987	379			379	4	69		452
1988	452			452	7	74		532
1989	463			463	10	50		523
1990	452			452	17	97		567
1991	580			580	24	98		702
1992	612			612	34	113		759
1993	693			693	41	128		862
1994	783			783	54	117		954
1995	801			801	73	114		988
1996	888		60	948	78	122		1,148
1997	1,119		83	1,202	96	146		1,444
1998	1,152		140	1,291	92	158		1,542
1999	1,153	2	267	1,423	123	167		1,713
2000	1,244	71	305	1,620	181	175		1,976
2001	1,070	360	349	1,779	177	340		2,296
2002	1,075	486	375	1,936	198	361		2,495
2003	991	662	401	2,054	217	385		2,657
2004	994	723	418	2,134	248	389	3	2,774
2005	1,011	802	428	2,242	258	491	6	2,997
2006	1,016	825	417	2,257	291	527	11	3,086
2007	1,054	847	445	2,346	347	572	24	3,288
2008	1,014	968	441	2,423	361	583	77	3,444
2009	1,101	905	429	2,435	387	599	143	3,564
2010	1,346	943	440	2,728	478	652	181	4,039

Remarks : Heat value of NG = 1,000 BTU/SCF

Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-3Y Consumption Share of Natural Gas by Sector

Year	MMSCFD					Share (%)				
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry	GSP	NGV	Total
1986	246	10	71		326	75.3	3.0	21.8		100.0
1987	379	4	69		452	83.8	1.0	15.2		100.0
1988	452	7	74		532	84.9	1.3	13.8		100.0
1989	463	10	50		523	88.6	1.8	9.6		100.0
1990	452	17	97		567	79.8	3.1	17.1		100.0
1991	580	24	98		702	82.5	3.5	14.0		100.0
1992	612	34	113		759	80.6	4.4	14.9		100.0
1993	693	41	128		862	80.4	4.7	14.8		100.0
1994	783	54	117		954	82.1	5.6	12.3		100.0
1995	801	73	114		988	81.1	7.4	11.6		100.0
1996	948	78	122		1,148	82.5	6.8	10.7		100.0
1997	1,202	96	146		1,444	83.2	6.7	10.1		100.0
1998	1,291	92	158		1,542	83.8	6.0	10.3		100.0
1999	1,423	123	167		1,713	83.1	7.2	9.8		100.0
2000	1,620	181	175		1,976	82.0	9.2	8.9		100.0
2001	1,779	177	340		2,296	77.5	7.7	14.8		100.0
2002	1,936	198	361		2,495	77.6	8.0	14.4		100.0
2003	2,054	217	385		2,657	77.3	8.2	14.5		100.0
2004	2,134	248	389	3	2,774	76.9	8.9	14.0	0.1	100.0
2005	2,242	258	491	6	2,997	74.8	8.6	16.4	0.2	100.0
2006	2,257	291	527	11	3,086	73.2	9.4	17.1	0.4	100.0
2007	2,346	347	572	24	3,288	71.3	10.6	17.4	0.7	100.0
2008	2,423	361	583	77	3,444	70.4	10.5	16.9	2.2	100.0
2009	2,435	387	599	143	3,564	68.3	10.9	16.8	4.0	100.0
2010	2,728	478	652	181	4,039	67.6	11.8	16.1	4.5	100.0

Remarks : Heat value of NG = 1,000 BTU/SCF

Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-4 Consumption of Compressed Natural Gas (CNG)

	Vehicle (Unit)			Consumption (MMSCF)				Petroleum Equivalent (Million Litres)		
	Gasoline	Diesel	Total	Gasoline	Diesel	Total	MMSCFD	Gasoline	Diesel	Total
2006	21,170	2,326	23,496	2,547	1,399	3,946	11	80	38	118
Jan	6,755	679	7,434	186	93	279	9	6	3	8
Feb	7,362	756	8,118	148	76	224	8	5	2	7
Mar	7,806	821	8,627	183	96	279	9	6	3	8
Apr	8,436	895	9,331	157	83	240	8	5	2	7
May	9,336	1,019	10,355	201	109	310	10	6	3	9
Jun	10,663	1,164	11,827	194	106	300	10	6	3	9
Jul	12,194	1,340	13,534	200	110	310	10	6	3	9
Aug	14,786	1,611	16,397	261	142	403	13	8	4	12
Sep	16,975	1,863	18,838	232	128	360	12	7	3	11
Oct	18,403	2,068	20,471	278	156	434	14	9	4	13
Nov	19,587	2,215	21,802	268	152	420	14	8	4	12
Dec	21,170	2,326	23,496	260	143	403	13	8	4	12
2007	49,335	6,533	55,868	5,166	3,421	8,587	24	168	87	255
Jan	24,306	2,679	26,985	280	154	434	14	9	4	13
Feb	25,770	2,836	28,606	293	161	454	16	9	4	14
Mar	27,788	3,029	30,817	367	200	567	18	11	5	17
Apr	28,832	3,180	32,012	365	201	566	19	11	5	17
May	29,971	3,344	33,315	388	216	604	19	12	6	18
Jun	32,536	3,680	36,216	411	233	644	21	13	6	19
Jul	34,437	3,914	38,351	443	252	695	22	14	7	21
Aug	37,215	4,293	41,508	484	279	763	25	15	8	23
Sep	40,045	4,612	44,657	511	294	805	27	16	8	24
Oct	42,769	5,262	48,031	568	350	918	30	18	10	27
Nov	46,072	5,846	51,918	616	391	1,007	34	19	11	30
Dec	49,335	6,533	55,868	680	450	1,130	36	21	12	33
2008	104,553	23,182	127,735	13,416	14,873	28,289	77	445	381	826
Jan	53,542	6,873	60,415	776	498	1,274	41	24	14	38
Feb	57,666	7,603	65,269	815	537	1,352	47	25	15	40
Mar	60,272	8,853	69,125	923	678	1,601	52	29	18	47
Apr	63,016	9,903	72,919	955	750	1,705	57	30	20	50
May	66,245	11,265	77,510	1,052	895	1,947	63	33	24	57
Jun	70,914	13,247	84,161	1,115	1,041	2,156	72	35	28	63
Jul	78,099	16,233	94,332	1,263	1,312	2,575	83	39	36	75
Aug	85,307	18,470	103,777	1,363	1,476	2,839	92	42	40	83
Sep	91,999	20,655	112,654	1,384	1,553	2,937	98	43	42	85
Oct	96,097	22,031	118,128	1,540	1,765	3,305	107	48	48	96
Nov	99,764	22,812	122,576	1,514	1,730	3,244	108	47	47	94
Dec	104,553	23,182	127,735	1,591	1,763	3,354	108	50	48	98

Table 3.2-4 Consumption of Compressed Natural Gas (CNG) (Cont.)

	Vehicle (Unit)			Consumption (MMSCF)				Petroleum Equivalent (Million Litres)		
	Gasoline	Diesel	Total	Gasoline	Diesel	Total	MMSCFD	Gasoline	Diesel	Total
2009	133,777	28,246	162,023	25,338	26,750	52,088	143	797	721	1,518
Jan	107,932	23,503	131,435	1,732	1,885	3,617	117	54	51	105
Feb	116,299	23,726	140,025	1,837	1,874	3,711	133	57	51	108
Mar	117,348	23,987	141,335	2,112	2,158	4,270	138	66	59	124
Apr	118,350	24,142	142,492	1,870	1,908	3,778	126	58	52	110
May	119,543	24,324	143,867	2,051	2,087	4,138	133	64	57	121
Jun	121,925	24,716	146,641	2,108	2,137	4,245	142	66	58	124
Jul	124,252	25,213	149,465	2,194	2,227	4,421	143	68	61	129
Aug	126,161	25,777	151,938	2,296	2,345	4,641	150	71	64	135
Sep	128,284	26,330	154,614	2,232	2,290	4,522	151	69	62	132
Oct	128,924	27,278	156,202	2,322	2,457	4,779	154	72	67	139
Nov	132,183	27,835	160,018	2,325	2,449	4,774	159	72	67	139
Dec	133,777	28,246	162,023	2,526	2,666	5,192	167	79	73	151
2010	191,233	34,435	225,668	34,781	31,315	66,096	181	1,042	888	1,930
Jan	136,780	28,687	165,467	2,334	2,447	4,781	154	73	67	139
Feb	140,052	29,022	169,074	2,357	2,442	4,799	171	73	67	140
Mar	143,944	29,533	173,477	2,693	2,763	5,456	176	84	75	159
Apr	147,431	29,921	177,352	2,457	2,493	4,950	165	76	68	144
May	151,313	30,384	181,697	2,583	2,594	5,177	167	80	71	151
Jun	156,849	30,892	187,741	2,736	2,694	5,430	181	85	73	159
Jul	161,866	31,486	193,352	2,813	2,736	5,549	179	88	75	162
Aug	166,981	32,135	199,116	2,859	2,752	5,611	181	89	75	164
Sep	172,763	32,754	205,517	2,942	2,788	5,730	191	92	76	167
Oct	178,055	33,313	211,368	3,091	2,892	5,983	193	96	79	175
Nov	185,113	33,877	218,990	3,196	2,924	6,120	204	99	80	179
Dec	191,233	34,435	225,668	3,426	3,084	6,510	210	107	84	191





● ● Chapter 4
LIGNITE/COAL

● ● บทที่ 4
ลิกไนต์/ถ่านหิน

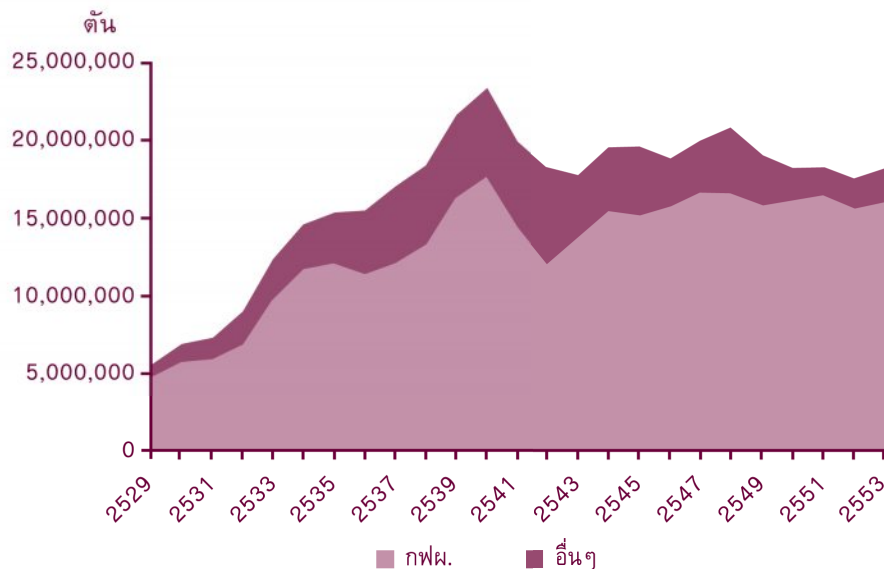


บทที่ 4 ลิกไนต์/ถ่านหิน

การผลิตลิกไนต์ในประเทศไทย ผลิตได้จาก 2 ผู้ผลิตหลัก คือ เหมืองของการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) และเหมืองของบริษัทเอกชน โดยเหมืองของ กฟผ. ประกอบด้วยการผลิตจากเหมืองแม่เมาะ จังหวัดลำปาง และจากเหมืองกระบี่ จังหวัดกระบี่ ทั้งนี้ลิกไนต์ที่ผลิตได้จากเหมืองแม่เมาะทั้งหมดจะถูกนำไปใช้ในการผลิตไฟฟ้าของโรงไฟฟ้าแม่เมาะ ส่วนลิกไนต์ที่ผลิตได้จากเหมืองกระบี่จะถูกนำไปใช้ในภาคอุตสาหกรรม ทั้งนี้เหมืองกระบี่ได้หยุดการผลิตในปี 2551

การผลิตลิกไนต์จากเหมืองของบริษัทเอกชน ปัจจุบันเริ่มชะลอตัวลงเนื่องจากแหล่งสัมปทานสำคัญๆ ภายในประเทศทยอยหมดลง โดยลิกไนต์ที่ผลิตได้จากเหมืองเอกชนส่วนใหญ่จะนำไปใช้ในภาคอุตสาหกรรม เช่น ซีเมนต์ กระดาษ อาหาร และสิ่งทอ เป็นต้น

การผลิตลิกไนต์



การใช้ลิกไนต์และถ่านหิน ในปี 2553 มีสัดส่วนการใช้ถ่านหิน/ลิกไนต์เป็นเชื้อเพลิงในการผลิตไฟฟ้าและภาคอุตสาหกรรมใกล้เคียงกัน (คิดจากค่าความร้อน) โดยภาคอุตสาหกรรมนำไปใช้ในการผลิตซีเมนต์เม็ดและใช้ในอุตสาหกรรมที่ใช้หม้อน้ำเป็นหลัก

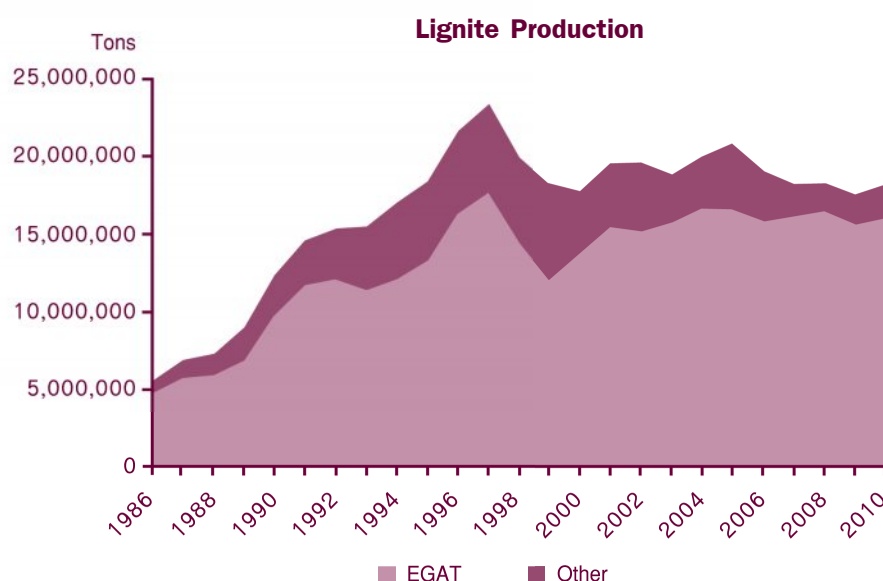
ในปี 2553 มีการใช้ลิกไนต์ในการผลิตไฟฟ้าคิดเป็นสัดส่วนร้อยละ 80 ที่เหลืออีกร้อยละ 20 ใช้ในภาคอุตสาหกรรม ส่วนถ่านหินใช้เป็นเชื้อเพลิงในการผลิตไฟฟ้าของ IPP ร้อยละ 22 SPP ร้อยละ 13 และใช้เป็นเชื้อเพลิงในภาคอุตสาหกรรมร้อยละ 65

Chapter 4 Lignite/Coal



Domestic Lignite Production. Domestic lignite production came from two major sources – one was from the mines belonging to the Electricity Generating Authority of Thailand (EGAT) and the other was from mines belonging to private producers. EGAT's sources comprised the production from Mae Moh mine in Lampang province (in northern Thailand) and Krabi mine in Krabi province (in the South of the country). Lignite produced from Mae Moh mine would be entirely used as fuel for power generation at Mae Moh Power Plant while that from Krabi mine would serve the demand in the industrial sector. However, the production at Krabi mine had diminished substantially in output and was eventually discontinued in 2008.

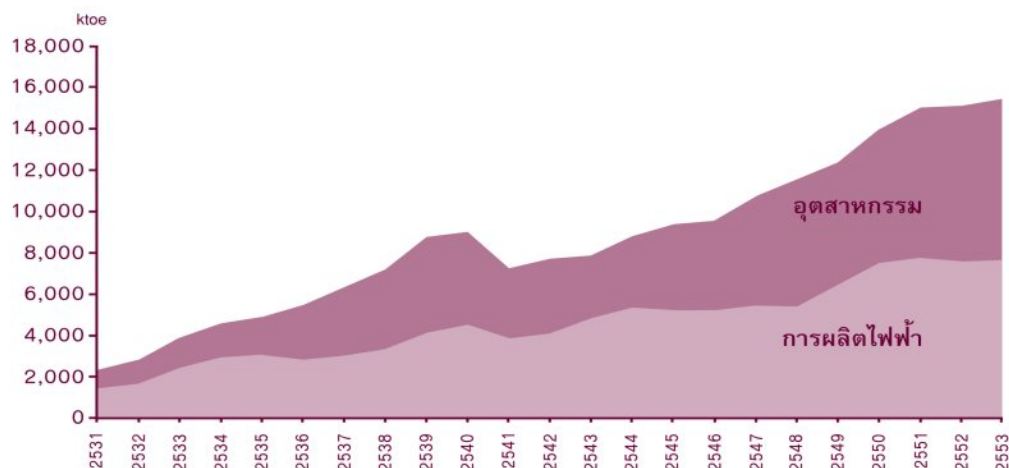
As for lignite production from the mines of private producers, the production volume gradually dropped off because major domestic lignite concessions expired one after another. Most of the lignite produced from private sector mines was used in such industries as cement, paper, food and textile.



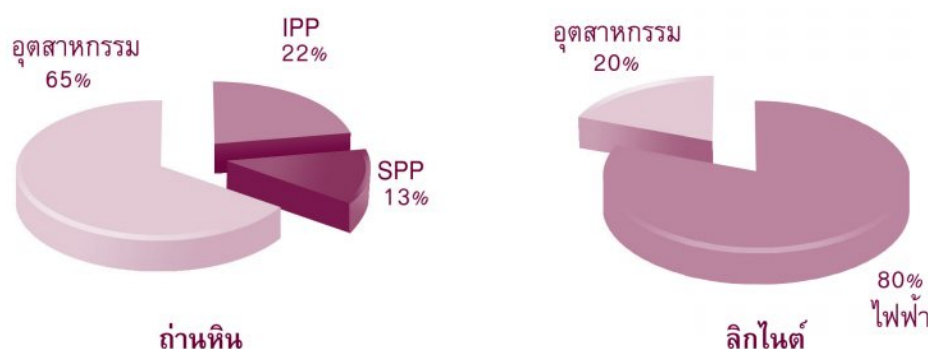
Lignite and Coal Consumption. In 2010, the share of coal/lignite consumption as fuel in the power generation sector was almost at the same level as that in the industrial sector (based on the calorific value). Coal demand in the industrial sector was growing, mainly by clinker production and industries using boilers.

Lignite was mainly used for power generation, accounting for a share of 80%; the remaining 20% was used in the industrial sector. As for coal, 22% was used as fuel in power generation by Independent Power Producers (IPP), 13% by Small Power Producers (SPP); and 65% was used as fuel in the industrial sector.

การใช้ลิกไนต์และถ่านหิน

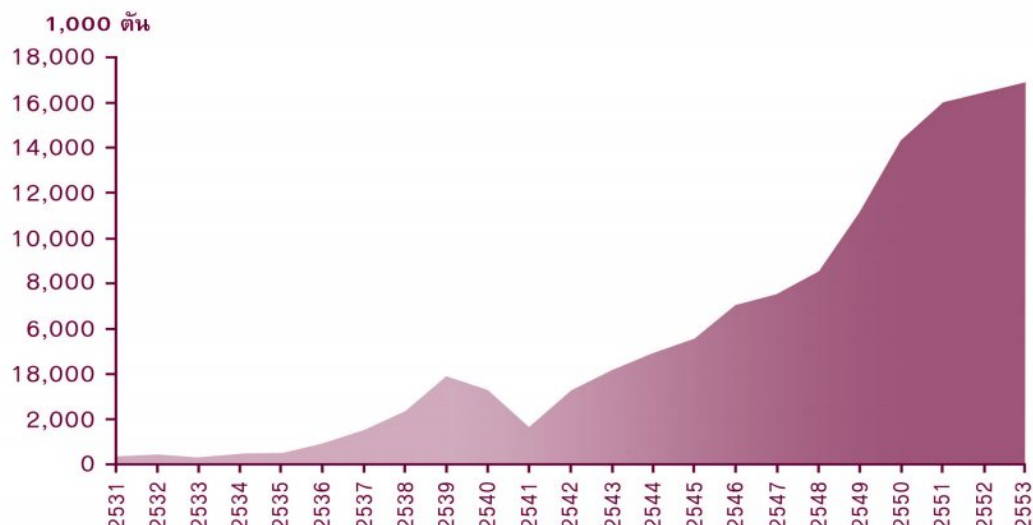


สัดส่วนการใช้ลิกไนต์และถ่านหินในปี 2553

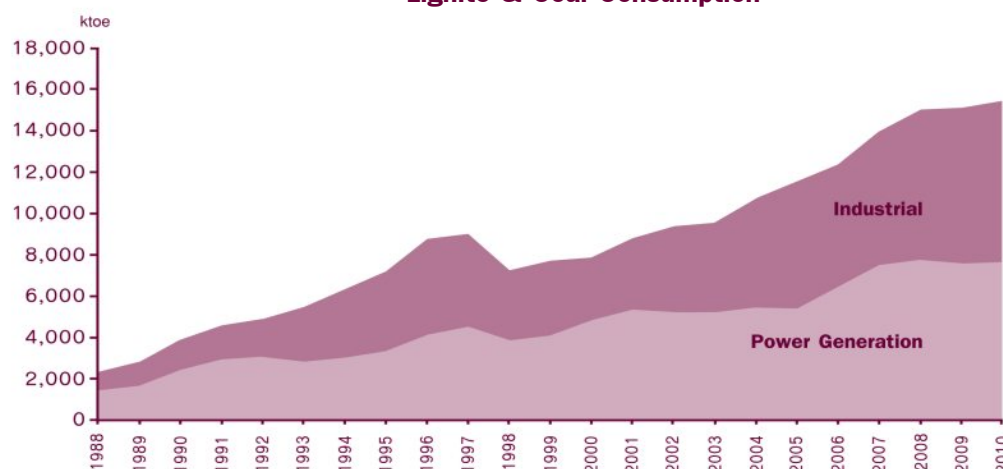


การนำเข้าถ่านหิน ถ่านหินนำเข้าที่ใช้ในประเทศส่วนใหญ่เป็นถ่านหินประเภท Sub-Bituminous และ Bituminous มีเพียงเล็กน้อยที่เป็นถ่านหินประเภท Anthracite และ Briquettes โดยถ่านหินนำเข้า (Sub-Bituminous) จะมีค่าความร้อนตั้งแต่ 5,000 - 6,000 กิโลแคลอรี/กิโลกรัม ทั้งนี้ปริมาณการนำเข้าถ่านหิน มีแนวโน้มเพิ่มขึ้นอย่างต่อเนื่อง สาเหตุจากแหล่งสัมปทานลิกไนต์ภายในประเทศทยอยหมดและราคาถ่านหินถูกกว่าเมื่อเทียบกับพลังงานชนิดอื่น

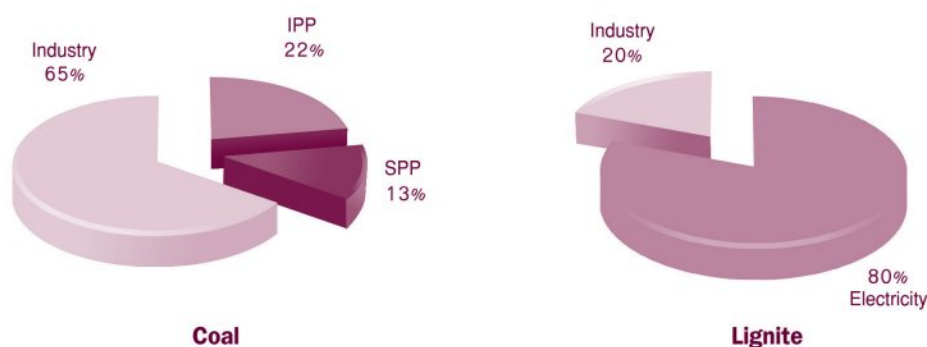
การนำเข้าถ่านหิน



Lignite & Coal Consumption



Share of Lignite & Coal Consumption in 2010



Coal Import. Most of imported coal used in Thailand is of sub-bituminous and bituminous categories; only a small amount is of anthracite and briquette categories. The calorific or heating value of imported coal (sub-bituminous) will be in a range of 5,000 – 6,000 kilocalories per kilogram (kcal/kg). The amount of coal import increased continuously because domestic lignite concessions came to expiry one after another and because the price of coal was cheaper when compared with other energy types.

Coal Import

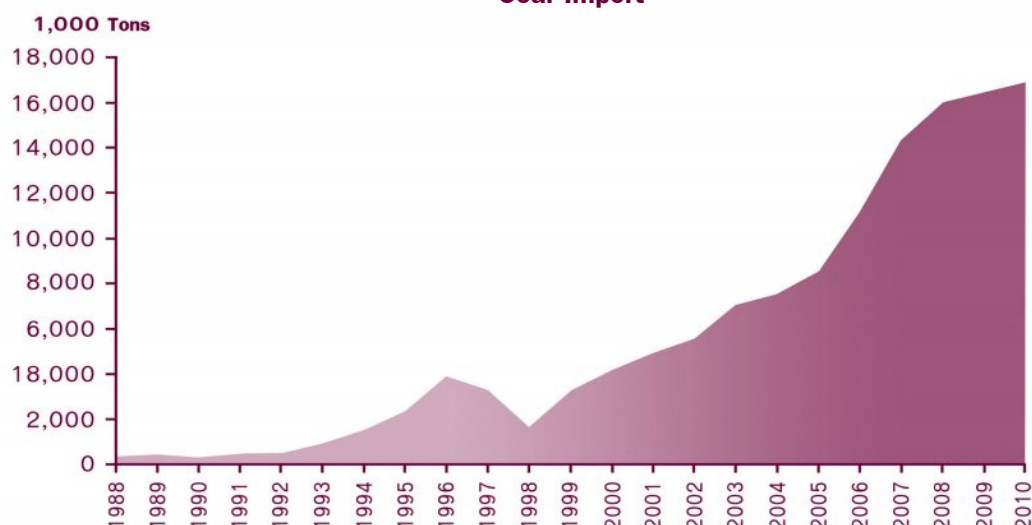


Table 4.1-1Y Production and Consumption of Lignite

Unit : Ton

Year	EGAT				Total EGAT		Others		Nationwide	
	Mae-Moh		Krabi		Production	Consumption	Production	Consumption	Production	Consumption
	Production	Consumption	Production	Consumption						
1986	4,551,921	4,084,232	212,000	221,552	4,763,921	4,305,784	774,163	734,351	5,538,084	5,040,135
1987	5,564,537	6,061,426	191,000	183,695	5,755,537	6,245,120	1,175,721	1,056,771	6,931,257	7,301,891
1988	5,717,250	5,681,773	237,396	213,979	5,954,646	5,895,752	1,340,413	1,316,064	7,295,059	7,211,816
1989	6,541,191	6,545,093	318,585	219,113	6,859,776	6,764,205	2,150,146	1,799,380	9,009,922	8,563,586
1990	9,652,991	9,619,614	156,262	255,710	9,809,254	9,875,324	2,629,219	2,600,686	12,438,473	12,476,010
1991	11,513,775	11,504,708	242,699	219,983	11,756,475	11,724,691	2,889,540	2,934,445	14,646,015	14,659,135
1992	11,844,352	12,129,274	253,950	241,265	12,098,302	12,370,539	3,290,259	3,193,113	15,388,561	15,563,652
1993	11,221,088	11,239,942	211,800	249,845	11,432,888	11,489,787	4,105,039	4,222,966	15,537,927	15,712,753
1994	11,906,553	11,908,173	225,065	247,711	12,131,618	12,155,884	4,963,253	4,897,708	17,094,871	17,053,592
1995	13,191,880	13,374,488	144,232	193,006	13,336,112	13,567,494	5,084,686	4,939,136	18,420,798	18,506,630
1996	16,381,301	16,405,340			16,381,301	16,405,340	5,309,093	4,688,467	21,690,394	21,093,807
1997	17,692,415	18,010,806			17,692,415	18,010,806	5,746,141	5,235,659	23,438,556	23,246,465
1998	14,419,327	15,388,095			14,419,327	15,388,095	5,576,868	5,029,499	19,996,195	20,417,594
1999	12,021,265	13,893,584			12,021,265	13,893,584	6,240,043	4,610,512	18,261,308	18,504,096
2000	13,621,615	14,120,569	30,000		13,651,615	14,120,569	4,134,132	3,722,528	17,785,747	17,843,097
2001	15,314,436	15,744,116	133,000		15,447,436	15,744,116	4,159,559	3,753,746	19,606,995	19,497,862
2002	14,994,739	15,035,329	187,000		15,181,739	15,035,329	4,420,245	4,503,816	19,601,984	19,539,145
2003	15,591,841	15,406,532	146,000		15,737,841	15,406,532	3,105,554	2,753,089	18,843,395	18,159,621
2004	16,561,572	16,536,694	95,868		16,657,440	16,536,694	3,402,404	4,006,701	20,059,844	20,543,395
2005	16,534,142	16,571,091	36,522		16,570,664	16,571,091	4,307,512	4,475,747	20,878,176	21,046,838
2006	15,763,798	15,815,374	56,000		15,819,798	15,815,374	3,250,810	3,036,746	19,070,608	18,852,120
2007	16,117,809	15,811,050	27,112		16,144,921	15,811,050	2,094,255	2,159,379	18,239,176	17,970,429
2008	16,420,847	16,407,465	23,248		16,444,095	16,407,465	1,842,390	2,124,087	18,286,485	18,531,552
2009	15,631,766	15,818,265			15,631,766	15,818,265	1,934,334	2,042,529	17,566,100	17,860,794
2010	15,987,263	16,004,196			15,987,263	16,004,196	2,244,149	2,017,685	18,231,412	18,021,881

Source : Department of Primary Industry and Mines

Table 4.1-2Y Consumption of Lignite and Coal Classified by Sector

Unit : ktoe

Year	Coal				Lignite			Coal and Lignite		
	IPP	SPP	Industry	Total	EGAT	Industry	Total	Electricity	Industry	Total
1986			138	138	1,067	350	1,417	1,067	489	1,555
1987			194	194	1,547	504	2,051	1,547	699	2,245
1988			225	225	1,460	628	2,088	1,460	853	2,314
1989			284	284	1,675	858	2,534	1,675	1,142	2,818
1990			213	213	2,446	1,241	3,687	2,446	1,453	3,899
1991			293	293	2,937	1,337	4,274	2,937	1,630	4,567
1992			313	313	3,077	1,498	4,575	3,077	1,811	4,888
1993			584	584	2,846	2,014	4,860	2,846	2,598	5,444
1994			948	948	3,011	2,336	5,347	3,011	3,284	6,296
1995		7	1,458	1,465	3,361	2,356	5,717	3,368	3,814	7,182
1996		41	2,397	2,438	4,064	2,236	6,300	4,105	4,633	8,738
1997		57	1,995	2,053	4,461	2,497	6,959	4,519	4,493	9,012
1998		65	954	1,019	3,812	2,399	6,211	3,877	3,353	7,230
1999		670	1,376	2,046	3,441	2,199	5,641	4,111	3,576	7,687
2000		1,330	1,282	2,611	3,498	1,776	5,273	4,827	3,057	7,884
2001		1,462	1,625	3,087	3,900	1,791	5,690	5,362	3,415	8,777
2002		1,499	1,995	3,495	3,724	2,148	5,873	5,224	4,144	9,367
2003		1,389	3,049	4,438	3,816	1,313	5,129	5,205	4,362	9,568
2004		1,370	3,343	4,713	4,096	1,911	6,007	5,466	5,254	10,720
2005		1,294	4,054	5,348	4,105	2,135	6,240	5,399	6,189	11,587
2006	922	1,544	4,535	7,000	3,917	1,449	5,366	6,383	5,983	12,366
2007	2,308	1,280	5,409	8,997	3,916	1,030	4,946	7,504	6,439	13,943
2008	2,305	1,399	6,270	9,974	4,064	1,013	5,077	7,768	7,283	15,051
2009	2,276	1,424	6,529	10,230	3,918	974	4,892	7,619	7,503	15,122
2010	2,342	1,327	6,882	10,551	3,964	962	4,927	7,634	7,844	15,478
Fuel Share (%)										
1986			8.9	8.9	68.6	22.5	91.1	68.6	31.4	100.0
1987			8.7	8.7	68.9	22.5	91.3	68.9	31.1	100.0
1988			9.7	9.7	63.1	27.1	90.3	63.1	36.9	100.0
1989			10.1	10.1	59.5	30.5	89.9	59.5	40.5	100.0
1990			5.5	5.5	62.7	31.8	94.5	62.7	37.3	100.0
1991			6.4	6.4	64.3	29.3	93.6	64.3	35.7	100.0
1992			6.4	6.4	63.0	30.7	93.6	63.0	37.0	100.0
1993			10.7	10.7	52.3	37.0	89.3	52.3	47.7	100.0
1994			15.1	15.1	47.8	37.1	84.9	47.8	52.2	100.0
1995		0.1	20.3	20.4	46.8	32.8	79.6	46.9	53.1	100.0
1996		0.5	27.4	27.9	46.5	25.6	72.1	47.0	53.0	100.0
1997		0.6	22.1	22.8	49.5	27.7	77.2	50.1	49.9	100.0
1998		0.9	13.2	14.1	52.7	33.2	85.9	53.6	46.4	100.0
1999		8.7	17.9	26.6	44.8	28.6	73.4	53.5	46.5	100.0
2000		16.9	16.3	33.1	44.4	22.5	66.9	61.2	38.8	100.0
2001		16.7	18.5	35.2	44.4	20.4	64.8	61.1	38.9	100.0
2002		16.0	21.3	37.3	39.8	22.9	62.7	55.8	44.2	100.0
2003		14.5	31.9	46.4	39.9	13.7	53.6	54.4	45.6	100.0
2004		12.8	31.2	44.0	38.2	17.8	56.0	51.0	49.0	100.0
2005		11.2	35.0	46.2	35.4	18.4	53.9	46.6	53.4	100.0
2006	7.5	12.5	36.7	56.6	31.7	11.7	43.4	51.6	48.4	100.0
2007	16.6	9.2	38.8	64.5	28.1	7.4	35.5	53.8	46.2	100.0
2008	15.3	9.3	41.7	66.3	27.0	6.7	33.7	51.6	48.4	100.0
2009	15.1	9.4	43.2	67.7	25.9	6.4	32.4	50.4	49.6	100.0
2010	15.1	8.6	44.5	68.2	25.6	6.2	31.8	49.3	50.7	100.0
Growth Rate(%)										
1987			40.5	40.5	45.0	43.9	44.8	45.0	42.9	44.4
1988			15.9	15.9	-5.6	24.5	1.8	-5.6	22.1	3.0
1989			26.0	26.0	14.7	36.7	21.3	14.7	33.9	21.8
1990			-25.1	-25.1	46.0	44.5	45.5	46.0	27.2	38.4
1991			37.7	37.7	20.1	7.8	15.9	20.1	12.2	17.1
1992			6.7	6.7	4.8	12.0	7.1	4.8	11.1	7.0
1993			86.8	86.8	-7.5	34.5	6.2	-7.5	43.5	11.4
1994			62.4	62.4	5.8	16.0	10.0	5.8	26.4	15.6
1995			53.7	54.5	11.6	0.9	6.9	11.9	16.1	14.1
1996		466.9	64.4	66.4	20.9	-5.1	10.2	21.9	21.5	21.7
1997		38.9	-16.7	-15.8	9.8	11.7	10.5	10.1	-3.0	3.1
1998		13.9	-52.2	-50.4	-14.6	-3.9	-10.8	-14.2	-25.4	-19.8
1999		923.1	44.3	100.7	-9.7	-8.3	-9.2	6.0	6.6	6.3
2000		98.5	-6.9	27.6	1.6	-19.3	-6.5	17.4	-14.5	2.6
2001		10.0	26.8	18.2	11.5	0.8	7.9	11.1	11.7	11.3
2002		2.6	22.8	13.2	-4.5	20.0	3.2	-2.6	21.3	6.7
2003		-7.4	52.8	27.0	2.5	-38.9	-12.7	-0.4	5.3	2.1
2004		-1.4	9.6	6.2	7.3	45.5	17.1	5.0	20.4	12.0
2005		-5.5	21.3	13.5	0.2	11.7	3.9	-1.2	17.8	8.1
2006		19.3	11.9	30.9	-4.6	-32.2	-14.0	18.2	-3.3	6.7
2007	150.4	-17.1	19.3	28.5	0.0	-28.9	-7.8	17.6	7.6	12.8
2008	-0.1	9.3	15.9	10.9	3.8	-1.6	2.7	3.5	13.1	8.0
2009	-1.2	1.8	4.1	2.6	-3.6	-3.8	-3.6	-1.9	3.0	0.5
2010	2.9	-6.8	5.4	3.1	1.2	-1.2	0.7	0.2	4.6	2.4

Remarks IPP : Independent Power Producers
SPP : Small Power Producers
EGAT : Electricity Generating Authority of Thailand

Table 4.1-3Y Consumption of Lignite and Coal Classified by Sector

Unit : 1,000 Tons

Year	Coal				Lignite			Coal and Lignite		
	IPP	SPP	Industry	Total	EGAT	Industry	Total	Electricity	Industry	Total
1986			222	222	4,306	734	5,040	4,306	956	5,262
1987			312	312	6,245	1,057	7,302	6,245	1,368	7,613
1988			361	361	5,896	1,316	7,212	5,896	1,677	7,573
1989			455	455	6,764	1,799	8,564	6,764	2,254	9,019
1990			341	341	9,875	2,601	12,476	9,875	2,942	12,817
1991			470	470	11,856	2,804	14,659	11,856	3,273	15,129
1992			501	501	12,423	3,141	15,564	12,423	3,641	16,065
1993			936	936	11,490	4,223	15,713	11,490	5,159	16,649
1994			1,519	1,519	12,156	4,898	17,054	12,156	6,417	18,573
1995		12	2,335	2,347	13,567	4,939	18,507	13,579	7,275	20,854
1996		66	3,840	3,906	16,405	4,688	21,094	16,472	8,528	25,000
1997		92	3,197	3,289	18,011	5,236	23,246	18,103	8,432	26,535
1998		105	1,528	1,633	15,388	5,030	20,418	15,493	6,558	22,051
1999		1,073	2,205	3,278	13,894	4,611	18,504	14,966	6,816	21,782
2000		2,130	2,053	4,183	14,121	3,723	17,843	16,251	5,776	22,026
2001		2,342	2,603	4,945	15,744	3,754	19,498	18,086	6,357	24,443
2002		2,402	3,197	5,599	15,035	4,504	19,539	17,438	7,700	25,138
2003		2,225	4,885	7,110	15,407	2,753	18,160	17,632	7,638	25,270
2004		2,194	5,356	7,550	16,537	4,007	20,543	18,731	9,363	28,093
2005		2,073	6,495	8,568	16,571	4,476	21,047	18,644	10,971	29,615
2006	1,476	2,473	7,265	11,215	15,815	3,037	18,852	19,765	10,302	30,067
2007	3,697	2,051	8,665	14,414	15,811	2,159	17,970	21,559	10,825	32,384
2008	3,692	2,241	10,045	15,979	16,407	2,124	18,532	22,341	12,169	34,511
2009	3,647	2,282	10,460	16,389	15,818	2,043	17,861	21,747	12,503	34,250
2010	3,752	2,126	11,026	16,904	16,004	2,018	18,022	21,883	13,043	34,926
Fuel Share (%)										
1986			4.2	4.2	81.8	14.0	95.8	81.8	18.2	100.0
1987			4.1	4.1	82.0	13.9	95.9	82.0	18.0	100.0
1988			4.8	4.8	77.9	17.4	95.2	77.9	22.2	100.0
1989			5.1	5.1	75.0	20.0	95.0	75.0	25.0	100.0
1990			2.7	2.7	77.1	20.3	97.3	77.1	23.0	100.0
1991			3.1	3.1	78.4	18.5	96.9	78.4	21.6	100.0
1992			3.1	3.1	77.3	19.6	96.9	77.3	22.7	100.0
1993			5.6	5.6	69.0	25.4	94.4	69.0	31.0	100.0
1994			8.2	8.2	65.5	26.4	91.8	65.5	34.6	100.0
1995		0.1	11.2	11.3	65.1	23.7	88.7	65.1	34.9	100.0
1996		0.3	15.4	15.6	65.6	18.8	84.4	65.9	34.1	100.0
1997		0.4	12.1	12.4	67.9	19.7	87.6	68.2	31.8	100.0
1998		0.5	6.9	7.4	69.8	22.8	92.6	70.3	29.7	100.0
1999		4.9	10.1	15.1	63.8	21.2	85.0	68.7	31.3	100.0
2000		9.7	9.3	19.0	64.1	16.9	81.0	73.8	26.2	100.0
2001		9.6	10.7	20.2	64.4	15.4	79.8	74.0	26.0	100.0
2002		9.6	12.7	22.3	59.8	17.9	77.7	69.4	30.6	100.0
2003		8.8	19.3	28.1	61.0	10.9	71.9	69.8	30.2	100.0
2004		7.8	19.1	26.9	58.9	14.3	73.1	66.7	33.3	100.0
2005		7.0	21.9	28.9	56.0	15.1	71.1	63.0	37.0	100.0
2006	4.9	8.2	24.2	37.3	52.6	10.1	62.7	65.7	34.3	100.0
2007	11.4	6.3	26.8	44.5	48.8	6.7	55.5	66.6	33.4	100.0
2008	10.7	6.5	29.1	46.3	47.5	6.2	53.7	64.7	35.3	100.0
2009	10.7	6.7	30.5	47.9	46.2	6.0	52.2	63.5	36.5	100.0
2010	10.7	6.1	31.6	48.4	45.8	5.8	51.6	62.7	37.4	100.0
Growth Rate(%)										
1987			40.5	40.5	45.0	43.9	44.9	45.0	43.1	44.7
1988			15.9	15.9	-5.6	24.5	-1.2	-5.6	22.6	-0.5
1989			26.0	26.0	14.7	36.7	18.7	14.7	34.4	19.1
1990			-25.1	-25.1	46.0	44.5	45.7	46.0	30.5	42.1
1991			37.7	37.7	20.1	7.8	17.5	20.1	11.3	18.0
1992			6.7	6.7	4.8	12.0	6.2	4.8	11.3	6.2
1993			86.8	86.8	-7.5	34.5	1.0	-7.5	41.7	3.6
1994			62.4	62.4	5.8	16.0	8.5	5.8	24.4	11.6
1995			53.7	54.5	11.6	0.9	8.5	11.7	13.4	12.3
1996		466.9	64.4	66.4	20.9	-5.1	14.0	21.3	17.2	19.9
1997		38.9	-16.7	-15.8	9.8	11.7	10.2	9.9	-1.1	6.1
1998		13.9	-52.2	-50.4	-14.6	-3.9	-12.2	-14.4	-22.2	-16.9
1999		923.1	44.3	100.7	-9.7	-8.3	-9.4	-3.4	3.9	-1.2
2000		98.5	-6.9	27.6	1.6	-19.3	-3.6	8.6	-15.3	1.1
2001		10.0	26.8	18.2	11.5	0.8	9.3	11.3	10.1	11.0
2002		2.6	22.8	13.2	-4.5	20.0	0.2	-3.6	21.1	2.8
2003		-7.4	52.8	27.0	2.5	-38.9	-7.1	1.1	-0.8	0.5
2004		-1.4	9.6	6.2	7.3	45.5	13.1	6.2	22.6	11.2
2005		-5.5	21.3	13.5	0.2	11.7	2.5	-0.5	17.2	5.4
2006		19.3	11.9	30.9	-4.6	-32.2	-10.4	6.0	-6.1	1.5
2007	150.4	-17.1	19.3	28.5	0.0	-28.9	-4.7	9.1	5.1	7.7
2008	-0.1	9.3	15.9	10.9	3.8	-1.6	3.1	3.6	12.4	6.6
2009	-1.2	1.8	4.1	2.6	-3.6	-3.8	-3.6	-2.7	2.7	-0.8
2010	2.9	-6.8	5.4	3.1	1.2	-1.2	0.9	0.6	4.3	2.0

Remarks IPP : Independent Power Producers
SPP : Small Power Producers
EGAT : Electricity Generating Authority of Thailand

Table 4.2-1Y Coal Import

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Briquettes												
- Quantity (1,000 Tons)			0.02	0.05	0.03	0.06	0.20	3.06	0.05	0.04	0.02	0.01
- Value (Million Bahts)			0.08	0.44	0.29	0.50	0.16	1.18	0.55	0.31	0.39	0.58
Anthracite												
- Quantity (1,000 Tons)	4.20	4.18	4.92	7.92	12.89	18.78	1.57	3.63	1.18	5.08	46.16	8.09
- Value (Million Bahts)	10.96	11.52	16.83	24.42	28.50	32.33	3.94	11.68	4.68	13.45	63.62	27.24
Coal Solid Fuels from Coal												
- Quantity (1,000 Tons)	178.39	250.23	287.38	362.49	236.72	366.14	438.70	867.57	1,408.15	2,244.85	3,733.61	3,191.91
- Value (Million Bahts)	201.33	246.99	286.10	526.84	330.46	377.03	424.75	805.85	1,345.23	1,833.53	3,485.59	3,427.83
Peat												
- Quantity (1,000 Tons)		0.00				0.01				0.25	0.74	1.27
- Value (Million Bahts)		0.07				0.06				1.53	5.98	6.28
Coke of Coal												
- Quantity (1,000 Tons)	39.12	57.09	68.76	84.57	91.25	84.43	60.39	61.50	109.84	96.95	125.30	87.48
- Value (Million Bahts)	142.34	183.34	212.61	312.30	286.52	308.75	220.39	200.71	368.59	325.56	429.56	350.98
Total												
- Quantity (1,000 Tons)	221.70	311.50	361.08	455.03	340.90	469.42	500.85	935.76	1,519.21	2,347.16	3,905.84	3,288.78
- Value (Million Bahts)	354.63	441.92	515.62	863.99	645.77	718.66	649.23	1,019.42	1,719.06	2,174.40	3,985.25	3,813.12

Source : The Customs Department

Compiled by : Energy Policy and Planning Office (EPPO)

Table 4.2-1Y Coal Import (Cont.)

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Briquettes													
- Quantity (1,000 Tons)	0.03	0.00			0.00		0.02	0.02	0.03	50.13	0.01	0.00	0.00
- Value (Million Bahts)	0.20	0.23	0.04	0.01	0.05	0.27	0.75	0.07	0.50	56.92	0.76	0.82	0.21
Anthracite													
- Quantity (1,000 Tons)	23.10	110.80	164.69	234.89	581.26	532.86	355.13	487.76	553.49	305.46	242.20	677.52	367.82
- Value (Million Bahts)	47.31	149.57	243.30	353.50	827.78	829.85	720.87	1,406.69	1,236.50	836.44	1,280.39	2,209.51	1,539.64
Coal Solid Fuels from Coal													
- Quantity (1,000 Tons)	1,521.42	3,079.53	3,933.74	4,651.04	4,944.07	6,509.00	7,124.40	8,006.40	10,550.96	13,777.60	15,679.32	15,587.41	16,319.89
- Value (Million Bahts)	1,629.55	3,507.49	4,472.65	6,810.36	6,485.58	8,106.07	10,520.27	13,166.66	17,014.32	24,769.55	34,089.44	33,448.03	34,834.61
Peat													
- Quantity (1,000 Tons)	1.07	1.21	1.67	2.23	2.85	3.82	4.03	3.16	4.13	214.29	4.88	6.36	7.77
- Value (Million Bahts)	6.76	7.51	8.82	13.35	18.74	28.45	31.80	25.67	29.39	3,329.67	45.04	52.75	64.69
Coke of Coal													
- Quantity (1,000 Tons)	87.38	86.34	83.10	57.06	70.65	64.75	66.39	70.96	45.48	66.32	52.59	117.54	208.73
- Value (Million Bahts)	384.35	344.98	342.88	312.16	540.16	405.16	1,001.56	822.98	487.50	663.81	1,040.38	1,224.22	2,921.98
Total													
- Quantity (1,000 Tons)	1,632.98	3,277.93	4,183.20	4,945.21	5,598.84	7,110.44	7,549.95	8,568.29	11,214.80	14,413.80	15,979.00	16,388.84	16,904.21
- Value (Million Bahts)	2,068.16	4,009.80	5,067.69	7,489.37	7,872.31	9,369.79	12,275.26	15,422.06	18,895.88	29,656.38	36,456.01	36,935.34	39,361.12

Source : The Customs Department
Compiled by : Energy Policy and Planning Office (EPPO)



● ● Chapter 5
ELECTRICITY

● ● บทที่ 5
ไฟฟ้า

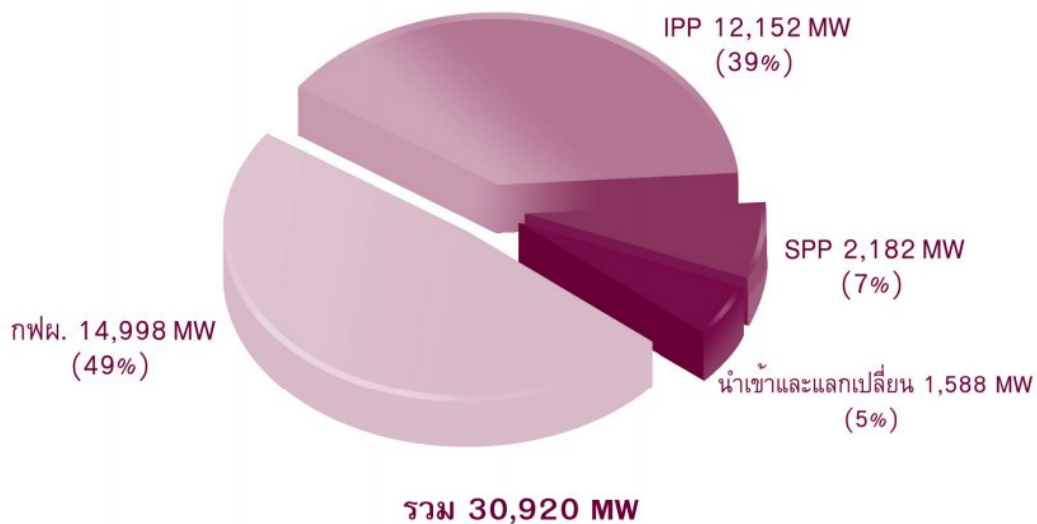


บทที่ 5 ไฟฟ้า

กำลังการผลิตติดตั้ง ในอดีตการผลิตไฟฟ้าของประเทศไทยมีการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) เป็นผู้ผลิตไฟฟ้าเพียงรายเดียว ต่อมารัฐบาลมีนโยบายให้เอกชนเข้ามามีส่วนร่วมในการผลิตไฟฟ้า เพื่อให้มีการแข่งขันด้านการผลิต ในปี 2537 จึงมีผู้ผลิตไฟฟ้าเอกชนรายใหญ่ (Independent Power Producer: IPP) และผู้ผลิตไฟฟ้าเอกชนรายเล็ก (Small Power Producers: SPP) เข้ามามีบทบาทในภาคการผลิตไฟฟ้าทำให้เกิดการปรับปรุงประสิทธิภาพการผลิตและบริการ ในปัจจุบันได้ส่งเสริมให้มีการใช้พลังงานหมุนเวียนในการผลิตไฟฟ้า จึงมีผู้ผลิตไฟฟ้าขนาดเล็กมาก (Very Small Power Producer: VSPP) ที่ใช้พลังงานหมุนเวียนเป็นหลักเข้ามาในระบบ

ในปี 2553 มีกำลังการผลิตติดตั้งรวมทั้งสิ้น 30,920 เมกะวัตต์ เป็นการผลิตติดตั้งของ กฟผ. ร้อยละ 49 IPP ร้อยละ 39 SPP ร้อยละ 7 และนำเข้าจาก สปป.ลาว และแลกเปลี่ยนกับมาเลเซีย ร้อยละ 5

**กำลังการผลิตติดตั้ง
ณ ธันวาคม 2553**



การผลิตพลังงานไฟฟ้า มีแนวโน้มเพิ่มขึ้น ยกเว้นปี 2541 ซึ่งเกิดวิกฤตเศรษฐกิจทำให้ปริมาณการผลิตพลังงานไฟฟ้าของไทยลดลง โดยในปี 2553 การผลิตอยู่ที่ระดับ 163,668 กิกะวัตต์ ชั่วโมง เป็นการผลิตไฟฟ้าจากก๊าซธรรมชาติร้อยละ 72 ถ่านหิน/ลิกไนต์ร้อยละ 18 ไฟฟ้าพลังน้ำร้อยละ 3 นำเข้าและแลกเปลี่ยนไฟฟ้าร้อยละ 4 น้ำมันร้อยละ 0.4 และอื่นๆ ร้อยละ 2

Chapter 5

Electricity

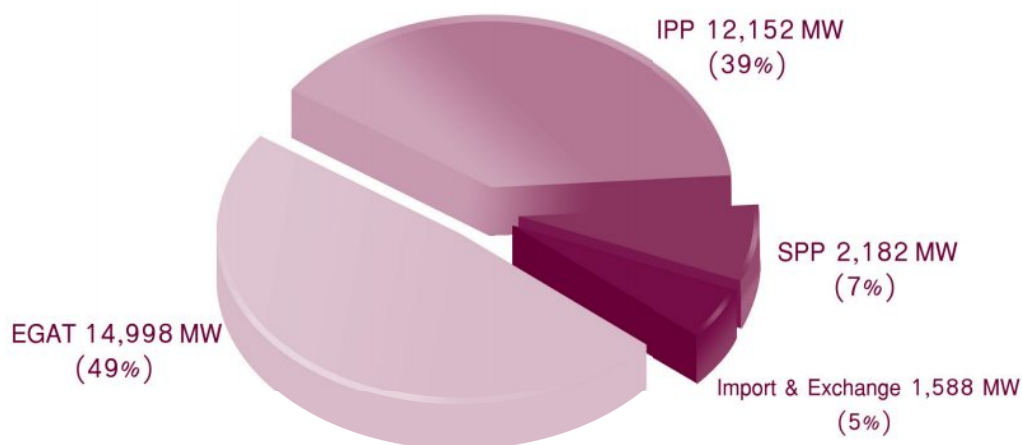


Installed Generating Capacity. In the past, the Electricity Generating Authority of Thailand (EGAT) was the sole power producer in Thailand. Later, the government had formulated a policy promoting the private sector role in the power generation sector in order to encourage competition in the generation business. As a result, since 1994, a number of Independent Power Producers (IPP) and Small Power Producers (SPP) have taken part in the power supply industry, resulting in improvement in power generation and service quality. Currently, promotion is being made on the use of renewable energy in power generation, resulting in a growing number of Very Small Power Producers (VSPP), using renewable energy as main fuel, supplying power to the grid.

In 2010, the total installed capacity stood at 30,920 MW, divided into the installed capacity of EGAT, 49%; IPP, 39%; SPP, 7%; and imported electricity from Lao PDR and exchange with Malaysia, 5%.

Power Generation : Installed Capacity

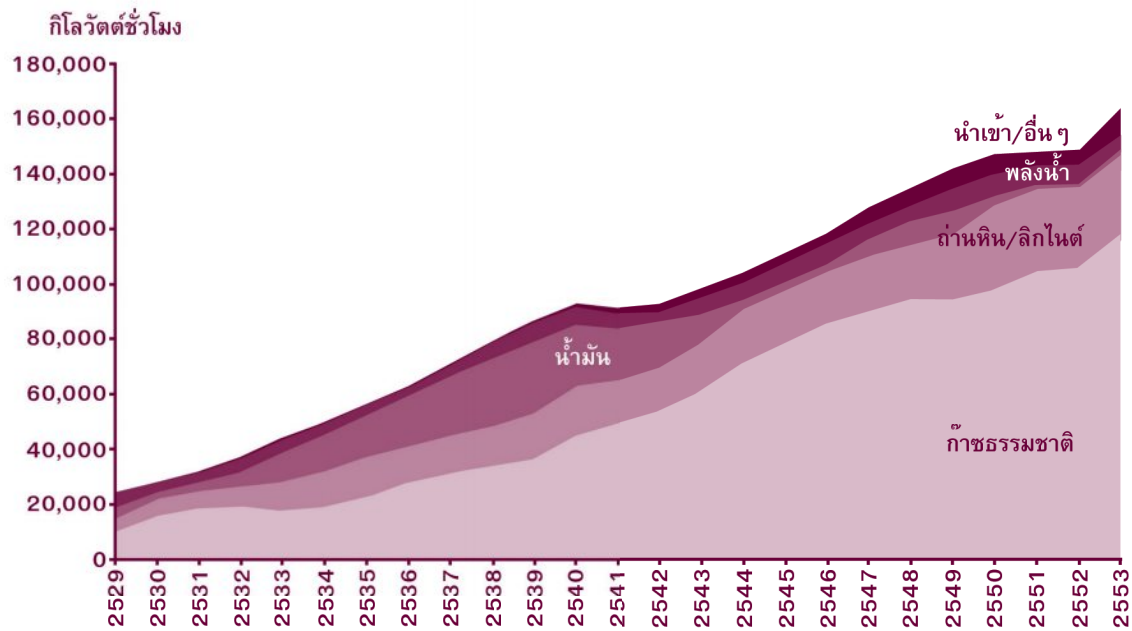
As of December 2010



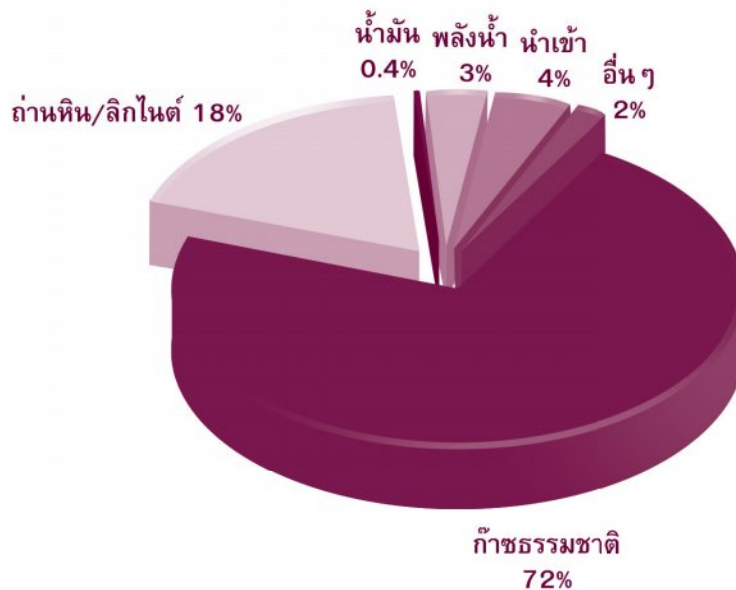
Total : 30,920 MW

Electricity Generation. The electricity generation trend in Thailand has been on the rise, except for the year 1998 due to the economic crisis then causing the electricity generation to shrink during that period. In 2010, the generation was at a level of 163,668 gigawatt-hours (GWh), with the use of the following fuels: natural gas, 72%; coal/lignite, 18%; hydropower, 3%; electricity import & exchange, 4%; oil, 0.4%; and others, 2%.

การผลิตไฟฟ้าจากเชื้อเพลิงชนิดต่าง ๆ

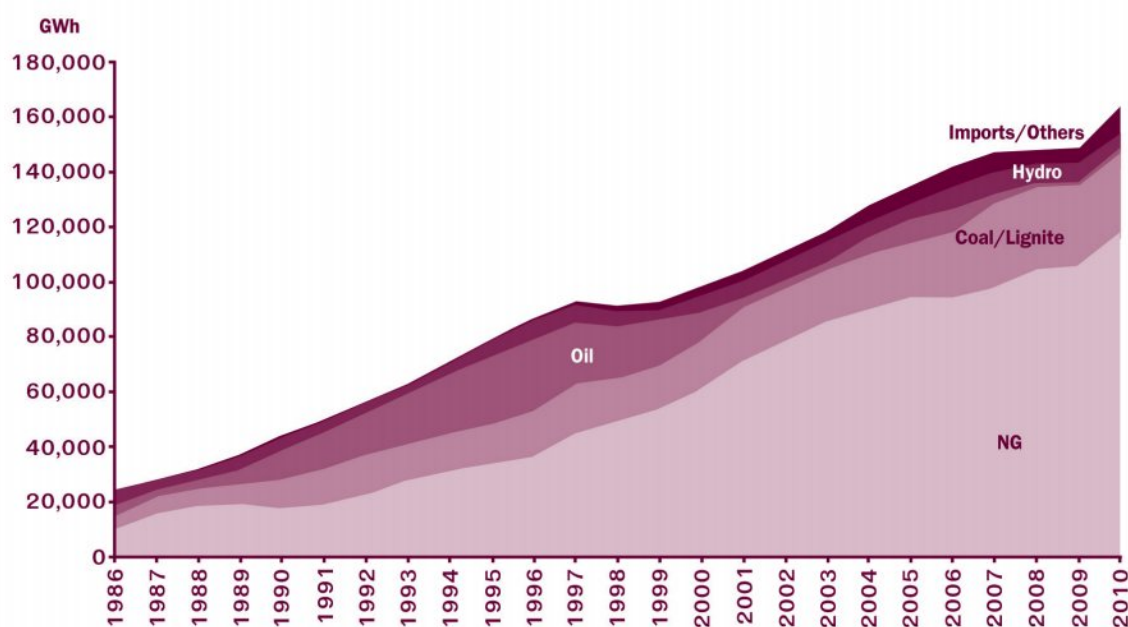


สัดส่วนการผลิตไฟฟ้าจากเชื้อเพลิงชนิดต่าง ๆ ปี 2553

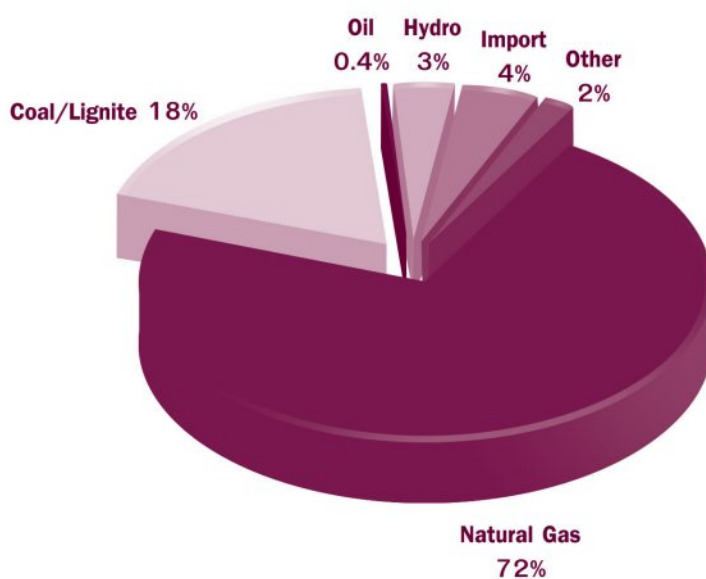


ความต้องการไฟฟ้าสูงสุด ในปี 2553 ความต้องการไฟฟ้าสูงสุดพุ่งขึ้นสู่ระดับที่สูงที่สุดเมื่อเทียบกับทุกปีที่ผ่านมา โดยเกิดขึ้นเมื่อวันจันทร์ที่ 10 พฤษภาคม 2553 เวลา 14.00 น. อยู่ที่ระดับ 24,630 เมกะวัตต์ สูงกว่าความต้องการไฟฟ้าสูงสุดในปี 2552 ซึ่งอยู่ที่ระดับ 22,596 เมกะวัตต์ อยู่ 2,034 เมกะวัตต์ หรือคิดเป็นร้อยละ 9.0 ส่วนค่าตัวประกอบการใช้ไฟฟ้าเฉลี่ย (Load Factor) ของปี 2553 อยู่ที่ระดับร้อยละ 74.54

Power Generation by Fuel Type

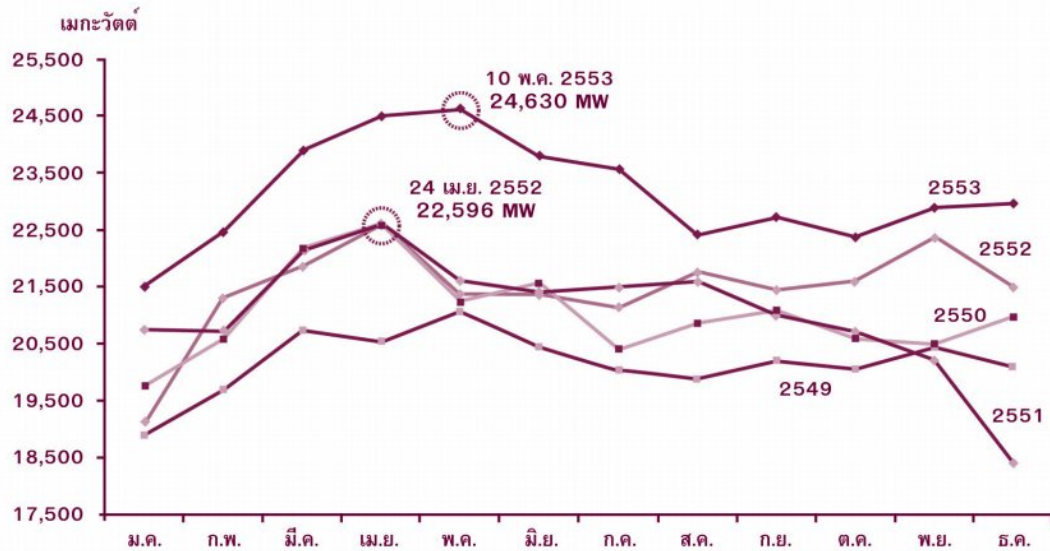


Share of Power Generation by Fuel Type in 2010



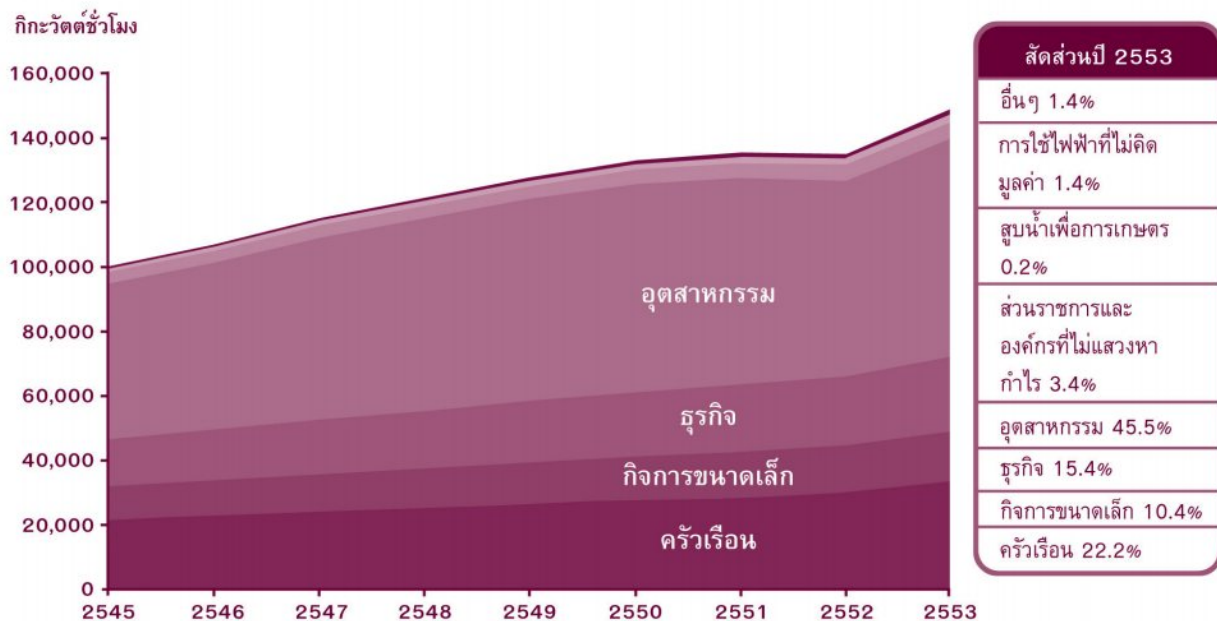
Peak Load. The peak load in 2010 skyrocketed to the highest ever experienced when compared with that in the past several years. The peak load occurred on Monday, 10 May 2010, at 14.00 hrs., reaching 24,630 MW, accounting for 2,034 MW or 9.0% higher than that in 2009 which was at 22,596 MW. The average load factor in 2010 was at 74.54%.

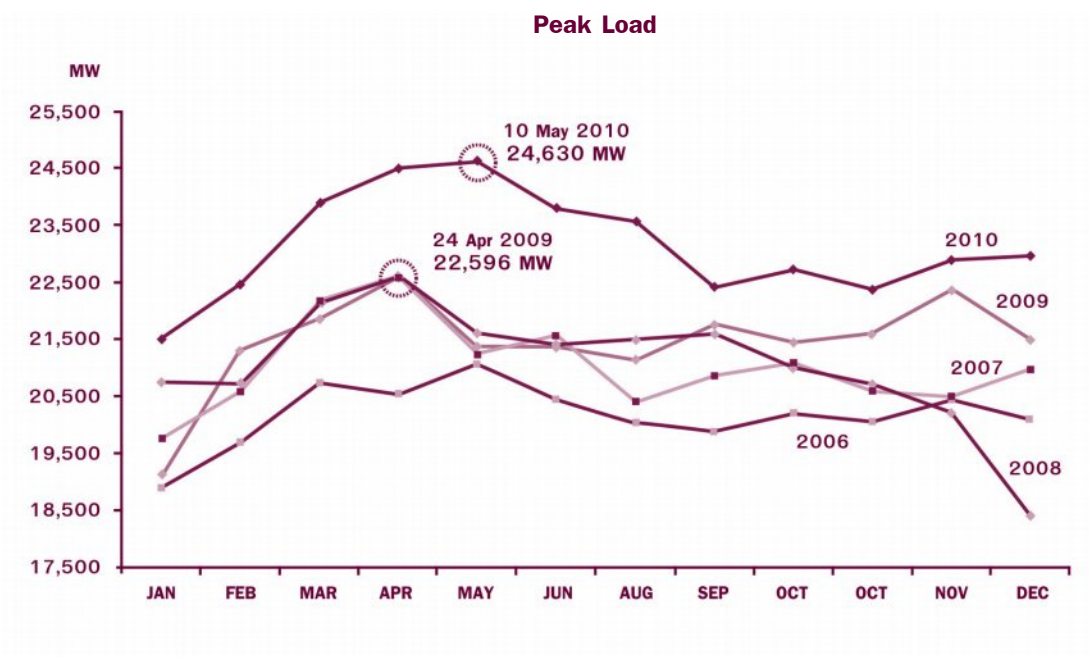
ความต้องการไฟฟ้าสูงสุด



การใช้ไฟฟ้า ปริมาณการใช้ไฟฟ้ารายสาขาของไทยมีสัดส่วนใกล้เคียงกันกับในอดีตที่ผ่านมา โดยในปี 2553 การใช้ไฟฟ้ารวมทั้งประเทศสูงขึ้นในอัตราร้อยละ 10.5 เมื่อเทียบกับปีก่อน โดยมีปริมาณการใช้ไฟฟ้าอยู่ที่ระดับ 149,301 กิกะวัตต์ชั่วโมง สาขาที่มีสัดส่วนการใช้ไฟฟ้าสูงที่สุด คือ ภาคอุตสาหกรรม คิดเป็นร้อยละ 46 ของการใช้ไฟฟ้าทั้งประเทศ ส่วนการใช้ไฟฟ้าในภาคครัวเรือน คิดเป็นร้อยละ 22 และภาคธุรกิจคิดเป็นร้อยละ 15

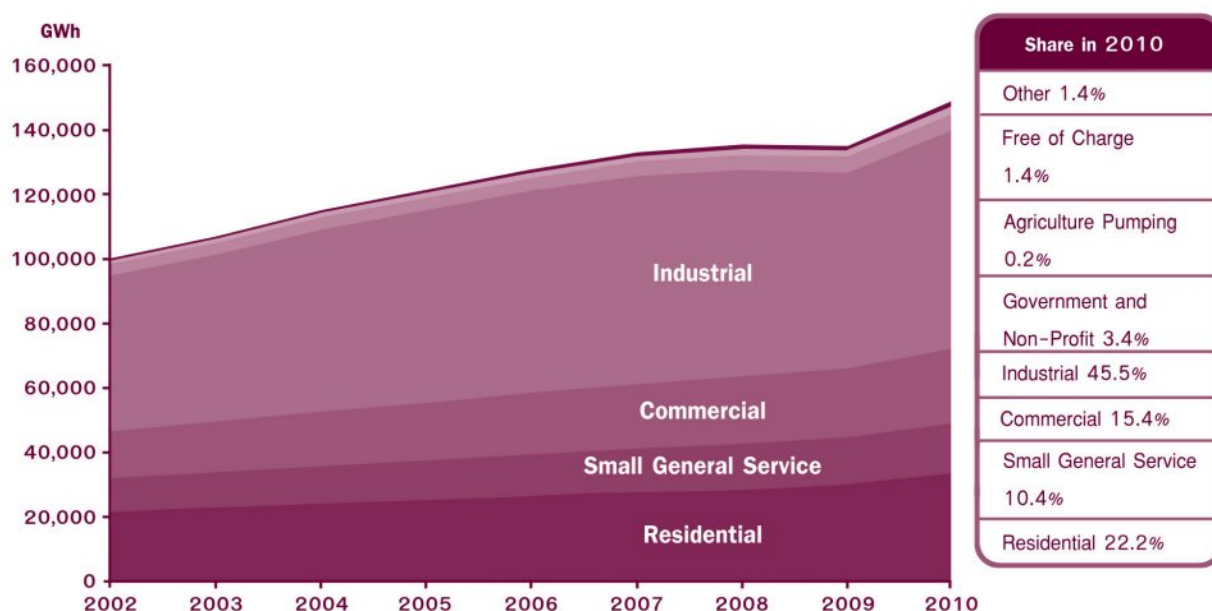
การใช้ไฟฟ้ารายสาขา





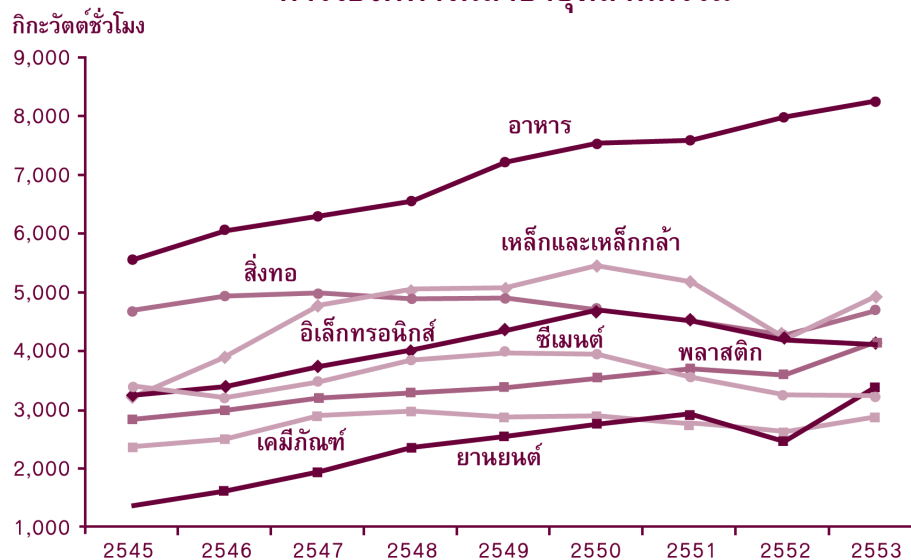
Electricity Consumption. The share of electricity consumption by sector in Thailand was similar to that in the past. In 2010, the total consumption of the country increased by 10.5%, compared with that in the previous year, reaching the amount of 149,301 GWh. The economic sector accounting for the highest share of national electricity consumption was the industrial sector, holding a share of 46%; while the household and commercial sectors accounted for a share of 22% and 15% respectively.

Electricity Consumption by Sector



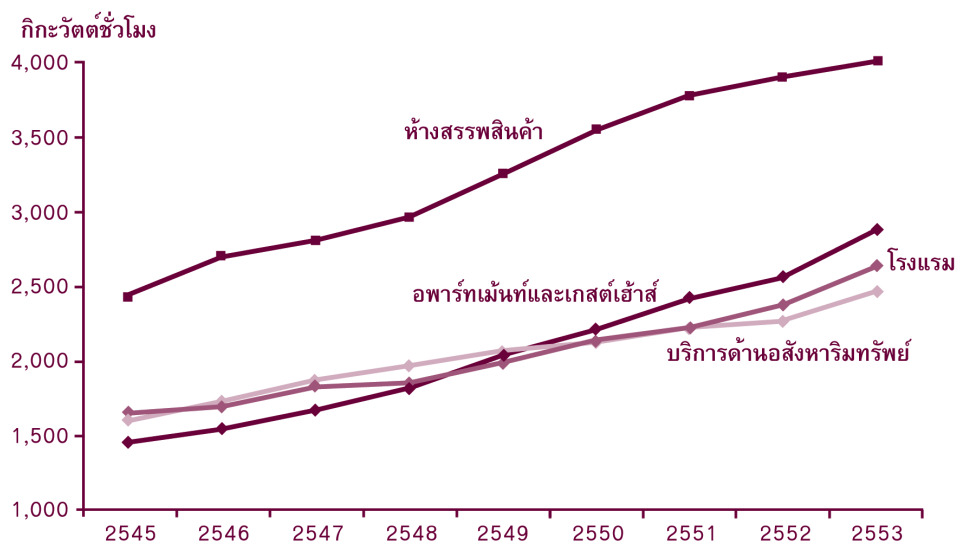
● **การใช้ไฟฟ้าในสาขาอุตสาหกรรมที่สำคัญ** การใช้ไฟฟ้าในอุตสาหกรรมส่วนใหญ่มีแนวโน้มเพิ่มขึ้นในช่วงปี 2545 ถึงปี 2550 หลังจากนั้นในช่วงปี 2551 ถึงปี 2552 มีแนวโน้มลดลง เนื่องจากภาวะเศรษฐกิจโลกที่ชะลอตัวลงประกอบกับภาวะความไม่มีเสถียรภาพทางการเมืองภายในประเทศไทย และในปี 2553 การใช้ไฟฟ้าในสาขาอุตสาหกรรมส่วนใหญ่กลับมาเพิ่มสูงขึ้นอีกครั้ง ยกเว้นอุตสาหกรรมซีเมนต์ที่มีการใช้ไฟฟ้าลดลงเนื่องจากการผลิตไฟฟ้าใช้เองจากความร้อนเหลือทิ้ง (waste heat) ในกระบวนการผลิต โดยอุตสาหกรรมสำคัญที่มีการใช้ไฟฟ้าในสัดส่วนที่สูง ได้แก่ อุตสาหกรรมอาหาร อุตสาหกรรมเหล็กและเหล็กกล้า อุตสาหกรรมสิ่งทอ อุตสาหกรรมพลาสติก อุตสาหกรรมอิเล็กทรอนิกส์ อุตสาหกรรมยานยนต์ อุตสาหกรรมซีเมนต์ และอุตสาหกรรมเคมีภัณฑ์ ตามลำดับ

การใช้ไฟฟ้าในสาขาอุตสาหกรรม

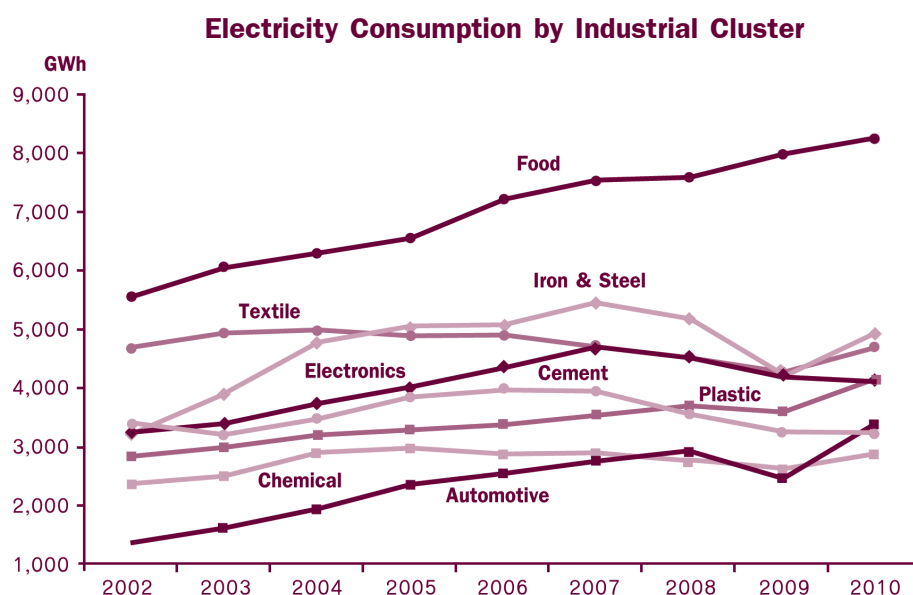


● **การใช้ไฟฟ้าในสาขารัฐกิจที่สำคัญ** การใช้ไฟฟ้าในสาขารัฐกิจส่วนใหญ่มีแนวโน้มเพิ่มขึ้นตั้งแต่ปี 2545 ถึงปี 2553 โดยในปี 2553 รัฐกิจที่มีการใช้ไฟฟ้าในสัดส่วนที่สูง ได้แก่ ห้างสรรพสินค้า อพาร์ทเมนต์และเกสต์เฮ้าส์ โรงแรม และบริการด้านอสังหาริมทรัพย์ ตามลำดับ

การใช้ไฟฟ้าในสาขารัฐกิจ



● **Electricity Demand in Major Industrial Clusters.** During 2002–2007, electricity demand in most industrial clusters was continuously on the rise. However, during 2008–2009, the trend dropped off due to the global economic slowdown coupled with the domestic political instability. In 2010, electricity demand in most industrial clusters hiked up again, except for the cement industry in which electricity consumption decreased as there was on-site electricity generation, using waste heat from the manufacturing process as fuel, for their own use. Industrial clusters of which electricity demand was high were the following: food processing, iron & steel, textile, plastic, electronics, automobile, cement and chemicals, respectively.



● **Electricity Demand in Major Commercial Clusters.** Electricity demand in most commercial clusters continuously increased from 2002 to 2010. In 2010, the business & commerce that accounted for high electricity consumption were as follows: department stores, apartments & guest houses, hotels and real estate services, respectively.

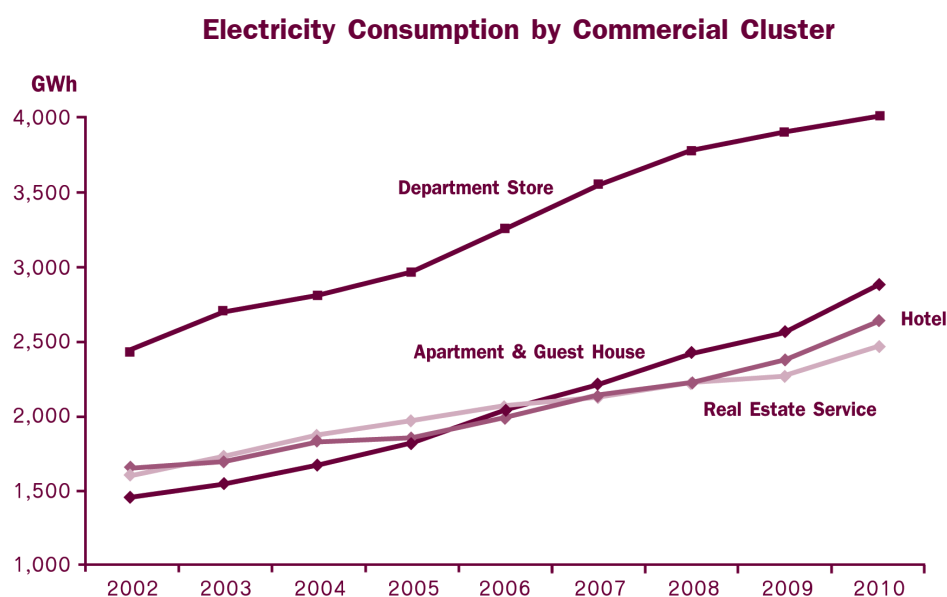


Table 5.1-1Y Electricity Generation by Fuel Type

Unit : GWh

Year	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	Total
1986	5,531.70	3,334.88	5,541.28	10,251.71	10.24	0.00	0.00	758.38	0.00	0.00	0.00	25,428.19
1987	4,056.23	2,188.38	6,698.01	15,623.66	2.41	0.00	0.00	415.45	4.92	0.00	0.00	28,989.06
1988	3,718.17	3,142.03	6,799.50	18,719.88	3.47	0.00	0.00	429.78	30.19	0.00	0.00	32,843.02
1989	5,512.21	4,738.83	7,869.57	19,194.75	16.45	0.00	0.00	643.15	21.57	0.00	0.00	37,996.53
1990	4,900.11	10,012.63	11,052.85	17,765.06	356.85	1.01	0.02	652.32	23.98	0.00	0.00	44,764.83
1991	4,505.35	12,636.39	13,785.22	19,051.19	112.57	1.00	0.02	593.11	28.65	0.00	0.00	50,713.50
1992	4,158.94	14,928.92	14,815.05	22,943.04	161.34	1.12	0.02	479.90	19.71	0.00	0.00	57,508.05
1993	3,612.50	17,494.52	13,503.75	27,953.16	743.97	1.14	0.03	644.52	28.26	0.00	0.00	63,981.85
1994	4,403.60	19,647.18	14,130.91	30,920.18	1,385.18	0.90	0.04	870.82	36.52	13.30	564.63	71,973.25
1995	6,593.01	21,711.89	15,152.25	25,377.38	2,261.18	1.05	0.04	699.12	26.00	261.65	8,352.74	80,436.33
1996	7,215.00	20,983.73	17,507.17	24,722.17	4,572.36	1.19	0.17	805.61	26.17	1,232.93	10,730.73	87,797.24
1997	7,082.00	19,266.11	18,924.58	28,613.71	2,440.68	1.28	0.22	745.63	27.19	2,150.90	14,154.62	93,406.91
1998	5,088.82	17,534.10	16,475.24	32,702.16	988.97	1.30	0.24	1,622.71	14.61	3,191.85	13,535.73	91,155.72
1999	3,409.67	15,429.25	15,418.91	32,851.18	457.33	1.49	0.24	2,255.66	34.49	8,353.15	14,259.57	92,470.95
2000	5,891.44	9,611.42	15,852.17	35,642.22	107.95	1.65	0.33	2,966.25	25.64	10,175.54	18,212.92	98,487.52
2001	6,174.35	2,419.96	17,722.36	34,786.99	248.06	1.50	0.46	2,881.71	31.08	11,644.29	27,958.14	103,868.90
2002	7,366.94	1,969.39	16,651.86	35,251.60	150.98	1.44	0.31	2,812.18	31.71	12,548.25	34,469.23	111,253.87
2003	7,207.76	2,434.28	16,856.16	31,694.40	75.30	1.61	0.24	2,473.41	32.29	13,299.82	44,332.77	118,408.03
2004	5,896.29	5,467.67	17,993.55	30,901.10	232.95	1.26	0.87	3,377.85	25.50	13,440.60	50,172.86	127,510.51
2005	5,671.18	7,640.00	18,334.50	33,064.85	176.85	1.45	0.81	4,371.89	17.40	13,546.61	51,972.65	134,798.20
2006	7,950.05	7,808.44	18,027.68	33,962.67	76.92	1.72	0.85	5,151.85	44.79	13,530.95	55,362.65	141,918.57
2007	7,961.36	2,966.57	18,497.68	36,501.69	28.24	1.84	0.81	4,488.36	21.70	14,439.45	62,118.21	147,025.89
2008	6,950.69	990.08	18,679.30	37,260.98	23.28	1.30	0.70	2,783.57	28.77	14,036.43	67,465.82	148,220.93
2009	6,965.74	448.23	17,922.09	41,761.02	45.07	1.41	1.86	2,451.41	24.04	13,902.10	64,840.71	148,363.68
2010	5,346.75	558.31	17,987.63	50,802.50	41.59	1.64	5.65	7,253.78	23.64	13,870.81	67,775.99	163,668.30

Source : EGAT

Remarks : Power Generation from NG and Diesel Oil not Including REGCO'S generation since Dec, 1994

Table 5.1-2Y Electricity Generation Classified by Fuel Type

Unit : GWh

Year	Natural Gas	Coal & Lignite		Oil			Hydro Electricity	Imported	Others	Total
		Lignite	Coal	Total	Fuel Oil	Diesel				
1986	10,252	5,541		5,541	3,335	10	5,532	758		25,428
1987	15,624	6,698		6,698	2,188	2	4,056	415	5	28,989
1988	18,720	6,800		6,800	3,142	3	3,718	430	30	32,843
1989	19,195	7,870		7,870	4,739	16	5,512	643	22	37,997
1990	17,765	11,053		11,053	10,013	357	4,900	652	25	44,765
1991	19,051	13,785		13,785	12,636	113	4,505	593	30	50,714
1992	22,943	14,815		14,815	14,929	161	4,159	480	21	57,508
1993	27,953	13,504		13,504	17,495	744	3,613	645	29	63,982
1994	31,485	14,131		14,131	19,647	1,385	4,404	871	51	71,973
1995	33,863	15,152	13	15,165	21,712	2,261	6,593	699	143	80,436
1996	36,433	17,507	73	17,580	20,984	4,572	7,215	806	207	87,797
1997	44,574	18,925	101	19,026	19,266	2,441	7,082	746	273	93,407
1998	49,021	16,475	115	16,590	17,534	989	5,089	1,623	310	91,156
1999	53,839	15,419	1,214	16,633	15,429	457	3,410	2,256	447	92,471
2000	61,186	15,852	2,345	18,197	9,611	108	5,891	2,966	527	98,488
2001	71,229	17,722	2,574	20,296	2,420	248	6,174	2,882	621	103,869
2002	78,910	16,652	2,640	19,292	1,969	151	7,367	2,812	752	111,254
2003	85,688	16,856	2,445	19,301	2,434	75	7,208	2,473	1,231	118,408
2004	90,289	17,994	2,411	20,404	5,468	233	5,896	3,378	1,842	127,511
2005	94,468	18,335	2,280	20,614	7,640	177	5,671	4,372	1,857	134,798
2006	94,398	18,028	6,441	24,468	7,808	77	7,950	5,152	2,065	141,919
2007	98,148	18,498	12,383	30,881	2,967	28	7,961	4,488	2,553	147,026
2008	104,386	18,679	12,158	30,838	990	23	6,951	2,784	2,250	148,221
2009	105,930	17,922	11,886	29,808	448	45	6,966	2,451	2,710	148,364
2010	117,941	17,988	11,776	29,764	558	42	5,347	7,254	2,763	163,668

Source : EGAT

Table 5.1-3Y Peak, Demand and Load Factor

Year	Peak (MW)	Generation (GWh)	Load Factor (%)
1986	4,220	25,429	68.8
1987	4,887	28,989	67.7
1988	5,444	32,843	68.7
1989	6,337	38,006	68.5
1990	7,221	44,765	70.8
1991	8,045	50,713	72.0
1992	8,904	57,509	73.5
1993	9,839	63,982	74.2
1994	11,064	71,973	74.3
1995	12,268	80,436	74.8
1996	13,311	87,797	75.1
1997	14,506	93,407	73.5
1998	14,180	91,156	73.4
1999	13,712	91,414	76.1
2000	14,918	98,487	75.2
2001	16,126	103,856	73.5
2002	16,681	111,256	76.1
2003	18,121	117,290	73.9
2004	19,326	127,511	75.1
2005	20,538	134,798	74.9
2006	21,064	141,919	76.9
2007	22,586	147,026	74.3
2008	22,568	148,264	74.8
2009	22,596*	148,372	75.0
2010	24,630*	163,660	75.9

Source : EGAT

*Remark : Gross Peak Estimation from EGAT (Net Peak) since 2009

Table 5.1-4Y EGAT Purchased from SPP

Unit : GWh

Year	Natural Gas (NG)	Coal/Lignite	Renewable Energy	Total
1994			13.30	13.30
1995	133.14	12.86	115.65	261.65
1996	980.44	72.90	179.59	1,232.93
1997	1,805.35	101.22	244.82	2,151.38
1998	2,783.25	115.24	293.37	3,191.85
1999	6,728.62	1,214.29	411.21	8,354.11
2000	7,331.08	2,345.17	499.29	10,175.54
2001	8,483.65	2,573.67	588.05	11,645.37
2002	9,189.42	2,639.65	718.95	12,548.01
2003	9,660.66	2,445.22	1,197.35	13,303.23
2004	9,215.09	2,410.93	1,814.29	13,440.30
2005	9,430.12	2,279.80	1,837.21	13,547.14
2006	9,128.00	2,385.14	2,017.81	13,530.95
2007	9,683.50	2,227.71	2,528.24	14,439.45
2008	9,801.51	2,015.89	2,219.03	14,036.43
2009	9,346.21	1,867.85	2,682.49	13,896.54
2010	9,398.65	1,740.41	2,731.75	13,870.81

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.1-5Y EGAT Purchased from IPP

Unit : GWh

Year	Natural Gas (NG)	Coal/Lignite	Total
1994	564.63		564.63
1995	8,352.75		8,352.75
1996	10,730.73		10,730.73
1997	14,154.62		14,154.62
1998	13,535.72		13,535.72
1999	14,294.50		14,294.50
2000	18,303.59		18,303.59
2001	27,945.32		27,945.32
2002	33,595.91		33,595.91
2003	44,332.78		44,332.78
2004	50,172.66		50,172.66
2005	51,729.97		51,729.97
2006	51,307.08	4,055.56	55,362.65
2007	51,962.49	10,155.73	62,118.21
2008	57,323.36	10,142.45	67,465.82
2009	54,345.31	10,018.13	64,363.43
2010	57,740.20	10,035.79	67,775.98

Table 5.2-1Y Electricity Consumption in MEA Service Areas (Classified by Tariff)

Unit : GWh

Year	Residential		Total	Small General	Medium General	Large General	Specific Business	Gov. & Nonprofit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh												
2002	431.08	7,195.81	7,626.88	5,023.22	8,025.50	12,114.33	1,596.15	1,213.70	0.00	0.00	0.00	0.00	181.19	35,780.97
2003	405.19	7,593.58	7,998.77	5,282.09	7,819.94	13,363.13	1,607.78	1,177.08	0.00	0.00	0.00	0.00	181.84	37,430.64
2004	413.06	7,921.56	8,334.63	5,566.11	8,050.86	14,120.77	1,658.92	1,200.01	0.00	0.00	0.00	0.00	188.10	39,119.39
2005	407.03	8,230.34	8,637.37	5,771.96	8,045.11	14,605.93	1,693.78	1,151.71	0.00	0.00	0.00	0.00	194.10	40,099.96
2006	411.35	8,667.81	9,079.16	6,039.00	8,061.22	15,189.57	1,729.67	1,175.48	0.00	0.00	0.00	0.00	208.18	41,482.28
2007	395.94	8,834.49	9,230.43	6,150.31	7,959.27	15,484.14	1,773.67	1,214.71	0.00	0.00	0.00	0.00	222.88	42,035.41
2008	399.63	8,981.78	9,381.42	6,253.09	7,913.50	15,394.02	1,809.30	1,250.78	0.00	0.00	0.00	0.00	233.80	42,235.91
2009	426.38	9,352.88	9,779.26	6,379.67	7,619.31	14,605.04	1,789.81	1,288.25	0.00	0.00	0.00	0.00	271.96	41,733.30
2010	416.35	10,299.58	10,715.93	6,859.18	7,685.95	16,325.93	1,802.57	1,357.89	0.00	0.00	0.00	0.00	312.71	45,060.16

Growth Rate (%)

2003	-6.00	5.53	4.88	5.15	-2.56	10.31	0.73	-3.02	0.00	0.00	0.00	0.00	0.36	4.61
2004	1.94	4.32	4.20	5.38	2.95	5.67	3.18	1.95	0.00	0.00	0.00	0.00	3.44	4.51
2005	-1.46	3.90	3.63	3.70	-0.07	3.44	2.10	-4.02	0.00	0.00	0.00	0.00	3.19	2.51
2006	1.06	5.32	5.11	4.63	0.20	4.00	2.12	2.06	0.00	0.00	0.00	0.00	7.25	3.45
2007	-3.74	1.92	1.67	1.84	-1.26	1.94	2.54	3.34	0.00	0.00	0.00	0.00	7.06	1.33
2008	0.93	1.67	1.64	1.67	-0.58	-0.58	2.01	2.97	0.00	0.00	0.00	0.00	4.90	0.48
2009	6.69	4.13	4.24	2.02	-3.72	-5.13	-1.08	3.00	0.00	0.00	0.00	0.00	16.32	-1.19
2010	-2.35	10.12	9.58	7.52	0.87	11.78	0.71	5.41	0.00	0.00	0.00	0.00	14.98	7.97

Share (%)

2002	1.20	20.11	21.32	14.04	22.43	33.86	4.46	3.39	0.00	0.00	0.00	0.00	0.51	100.00
2003	1.08	20.29	21.37	14.11	20.89	35.70	4.30	3.14	0.00	0.00	0.00	0.00	0.49	100.00
2004	1.06	20.25	21.31	14.23	20.58	36.10	4.24	3.07	0.00	0.00	0.00	0.00	0.48	100.00
2005	1.02	20.52	21.54	14.39	20.06	36.42	4.22	2.87	0.00	0.00	0.00	0.00	0.48	100.00
2006	0.99	20.90	21.89	14.56	19.43	36.62	4.17	2.83	0.00	0.00	0.00	0.00	0.50	100.00
2007	0.94	21.02	21.96	14.63	18.93	36.84	4.22	2.89	0.00	0.00	0.00	0.00	0.53	100.00
2008	0.95	21.27	22.21	14.81	18.74	36.45	4.28	2.96	0.00	0.00	0.00	0.00	0.55	100.00
2009	1.02	22.41	23.43	15.29	18.26	35.00	4.29	3.09	0.00	0.00	0.00	0.00	0.65	100.00
2010	0.92	22.86	23.78	15.22	17.06	36.23	4.00	3.01	0.00	0.00	0.00	0.00	0.69	100.00

Source : MEA

Table 5.2-2Y Electricity Consumption in PEA Service Areas (Classified by Tariff)

Unit : GWh

Year	Residential			Small General	Medium General	Large General	Specific Business	Gov. & Nonprofit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh	Total											
2002	6,429.75	7,906.54	14,336.29	4,727.54	11,046.12	25,839.86	1,574.57	2,421.48	192.13	396.62	10.00	1,159.01	778.09	62,481.72
2003	6,633.84	8,696.93	15,330.77	5,060.51	12,187.24	27,777.98	1,619.98	2,524.02	227.88	433.18	22.41	1,678.91	902.04	67,764.91
2004	6,898.03	9,305.66	16,203.70	5,467.16	12,056.22	32,376.37	1,800.53	2,614.47	250.76	495.29	41.78	1,817.95	995.99	74,120.22
2005	7,094.76	9,749.76	16,844.52	6,122.17	12,815.60	34,825.55	1,848.38	2,696.77	249.36	552.74	64.74	2,093.87	1,069.86	79,183.56
2006	7,285.05	10,483.18	17,768.23	6,519.48	14,145.57	36,628.50	2,075.60	2,803.58	240.02	610.50	152.93	2,110.77	1,327.84	84,383.01
2007	7,347.58	11,359.97	18,707.55	7,056.63	14,666.67	38,833.76	2,254.71	3,015.08	267.77	648.70	38.16	2,067.92	1,400.35	88,957.32
2008	7,404.77	11,905.03	19,309.80	7,476.60	14,793.40	39,603.55	2,425.15	3,140.78	281.46	689.34	92.84	1,789.21	1,543.63	91,145.76
2009	7,916.66	12,560.58	20,477.24	7,962.63	14,665.28	38,358.60	2,589.40	3,388.37	317.86	670.99	93.07	1,625.82	1,571.14	91,720.40
2010	8,119.97	14,380.59	22,500.56	8,726.67	16,061.32	44,000.09	2,947.36	3,691.49	335.29	761.84	82.09	1,642.39	1,720.98	102,470.08

Growth Rate (%)														
2003	3.17	10.00	6.94	7.04	10.33	7.50	2.88	4.23	18.61	9.22	124.06	44.86	15.93	8.46
2004	3.98	7.00	5.69	8.04	-1.08	16.55	11.15	3.58	10.04	14.34	86.43	8.28	10.42	9.38
2005	2.85	4.77	3.95	11.98	6.30	7.56	2.66	3.15	-0.56	11.60	54.96	15.18	7.42	6.83
2006	2.68	7.52	5.48	6.49	10.38	5.18	12.29	3.96	-3.75	10.45	136.21	0.81	24.11	6.57
2007	0.86	8.36	5.29	8.24	3.68	6.02	8.63	7.54	11.56	6.26	-75.05	-2.03	5.46	5.42
2008	0.78	4.80	3.22	5.95	0.86	1.98	7.56	4.17	5.11	6.26	143.27	-13.48	10.23	2.46
2009	6.91	5.51	6.05	6.50	-0.87	-3.14	6.77	7.88	12.93	-2.66	0.24	-9.13	1.78	0.63
2010	2.57	14.49	9.88	9.60	9.52	14.71	13.82	8.95	5.48	13.54	-11.79	1.02	9.54	11.72

Share (%)														
2002	10.29	12.65	22.94	7.57	17.68	41.36	2.52	3.88	0.31	0.63	0.02	1.85	1.25	100.00
2003	9.79	12.83	22.62	7.47	17.98	40.99	2.39	3.72	0.34	0.64	0.03	2.48	1.33	100.00
2004	9.31	12.55	21.86	7.38	16.27	43.68	2.43	3.53	0.34	0.67	0.06	2.45	1.34	100.00
2005	8.96	12.31	21.27	7.73	16.18	43.98	2.33	3.41	0.31	0.70	0.08	2.64	1.35	100.00
2006	8.63	12.42	21.06	7.73	16.76	43.41	2.46	3.32	0.28	0.72	0.18	2.50	1.57	100.00
2007	8.26	12.77	21.03	7.93	16.49	43.65	2.53	3.39	0.30	0.73	0.04	2.32	1.57	100.00
2008	8.12	13.06	21.19	8.20	16.23	43.45	2.66	3.45	0.31	0.76	0.10	1.96	1.69	100.00
2009	8.63	13.69	22.33	8.68	15.99	41.82	2.82	3.69	0.35	0.73	0.10	1.77	1.71	100.00
2010	7.92	14.03	21.96	8.52	15.67	42.94	2.88	3.60	0.33	0.74	0.08	1.60	1.68	100.00

Source : PEA

Table 5.2-3Y Electricity Consumption for the Whole Country (Classified by Tariff)

Unit : GWh

Year	Residential			Small General	Medium General	Large General	Specific Business	Gov. & Nonprofit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total MEA+PEA	Direct Customer	Grand Total
	< 150 kWh	> 150 kWh	Total													
2002	6,860.83	15,102.35	21,963.17	9,750.76	19,071.62	37,954.18	3,170.72	3,635.18	192.13	396.62	10.00	1,159.01	959.29	98,262.69	1,828.35	100,091.04
2003	7,039.04	16,290.51	23,329.55	10,342.59	20,007.18	41,141.11	3,227.76	3,701.10	227.88	433.18	22.41	1,678.91	1,083.87	105,195.54	1,791.61	106,987.15
2004	7,311.09	17,227.23	24,538.32	11,033.28	20,107.08	46,497.14	3,459.45	3,814.47	250.76	495.29	41.78	1,817.95	1,184.09	113,239.61	1,861.50	115,101.11
2005	7,501.80	17,980.10	25,481.90	11,894.13	20,860.71	49,431.48	3,542.15	3,848.48	249.36	552.74	64.74	2,093.87	1,263.96	119,283.52	1,956.51	121,240.03
2006	7,696.40	19,150.99	26,847.38	12,558.48	22,206.79	51,818.08	3,805.26	3,979.06	240.02	610.50	152.93	2,110.77	1,536.02	125,865.29	2,013.99	127,879.29
2007	7,743.53	20,194.46	27,937.98	13,206.94	22,625.94	54,317.90	4,028.38	4,229.80	267.77	648.70	38.16	2,067.92	1,623.24	130,992.73	2,120.09	133,112.81
2008	7,804.40	20,886.81	28,691.22	13,729.70	22,706.90	54,997.57	4,234.45	4,391.56	281.46	689.34	92.84	1,789.21	1,777.43	133,381.68	2,138.61	135,520.29
2009	8,343.04	21,913.46	30,256.50	14,342.30	22,284.59	52,963.64	4,379.21	4,676.62	317.86	670.99	93.07	1,625.82	1,843.11	133,453.70	1,727.13	135,180.83
2010	8,536.32	24,680.17	33,216.49	15,585.85	23,747.26	60,326.02	4,749.93	5,049.39	335.29	761.84	82.09	1,642.39	2,033.69	147,530.24	1,770.89	149,301.13

Growth Rate (%)																
2003	2.60	7.87	6.22	6.07	4.91	8.40	1.80	1.81	18.61	9.22	124.06	44.86	12.99	7.06	-2.01	6.89
2004	3.86	5.75	5.18	6.68	0.50	13.02	7.18	3.06	10.04	14.34	86.43	8.28	9.25	7.65	3.90	7.58
2005	2.61	4.37	3.85	7.80	3.75	6.31	2.39	0.89	-0.56	11.60	54.96	15.18	6.75	5.34	5.10	5.33
2006	2.59	6.51	5.36	5.59	6.45	4.83	7.43	3.39	-3.75	10.45	136.21	0.81	21.52	5.52	2.94	5.48
2007	0.61	5.45	4.06	5.16	1.89	4.82	5.86	6.30	11.56	6.26	-75.05	-2.03	5.68	4.07	5.27	4.09
2008	0.79	3.43	2.70	3.96	0.36	1.25	5.12	3.82	5.11	6.26	143.27	-13.48	9.50	1.82	0.87	1.81
2009	6.90	4.92	5.46	4.46	-1.86	-3.70	3.42	6.49	12.93	-2.66	0.24	-9.13	3.69	0.05	-19.24	-0.25
2010	2.32	12.63	9.78	8.67	6.56	13.90	8.47	7.97	5.48	13.54	-11.79	1.02	10.34	10.55	2.53	10.45

Share (%)																
2002	6.85	15.09	21.94	9.74	19.05	37.92	3.17	3.63	0.19	0.40	0.01	1.16	0.96	98.17	1.83	100.00
2003	6.58	15.23	21.81	9.67	18.70	38.45	3.02	3.46	0.21	0.40	0.02	1.57	1.01	98.33	1.67	100.00
2004	6.35	14.97	21.32	9.59	17.47	40.40	3.01	3.31	0.22	0.43	0.04	1.58	1.03	98.38	1.62	100.00
2005	6.19	14.83	21.02	9.81	17.21	40.77	2.92	3.17	0.21	0.46	0.05	1.73	1.04	98.39	1.61	100.00
2006	6.02	14.98	20.99	9.82	17.37	40.52	2.98	3.11	0.19	0.48	0.12	1.65	1.20	98.43	1.57	100.00
2007	5.82	15.17	20.99	9.92	17.00	40.81	3.03	3.18	0.20	0.49	0.03	1.55	1.22	98.41	1.59	100.00
2008	5.76	15.41	21.17	10.13	16.76	40.58	3.12	3.24	0.21	0.51	0.07	1.32	1.31	98.42	1.58	100.00
2009	6.17	16.21	22.38	10.61	16.49	39.18	3.24	3.46	0.24	0.50	0.07	1.20	1.36	98.72	1.28	100.00
2010	5.72	16.53	22.25	10.44	15.91	40.41	3.18	3.38	0.22	0.51	0.05	1.10	1.36	98.81	1.19	100.00

Source : MEA, PEA and EGAT

Table 5.2-4Y Electricity Consumption in MEA Service Areas (Classified by Sector)

Unit : GWh

Year	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2002	7,626.88	5,023.22	8,744.68	12,761.74	1,213.70	0.00	229.55	35,599.78	181.19	35,780.97
2003	7,998.77	5,282.09	9,258.57	13,298.76	1,177.08	0.00	233.53	37,248.80	181.84	37,430.64
2004	8,334.63	5,566.11	9,804.04	13,791.03	1,200.01	0.00	235.47	38,931.29	188.10	39,119.39
2005	8,637.37	5,771.96	10,171.38	13,915.05	1,151.71	0.00	258.39	39,905.86	194.10	40,099.96
2006	9,079.16	6,039.00	10,584.39	13,968.58	1,175.48	0.00	427.49	41,274.10	208.18	41,482.28
2007	9,230.43	6,150.31	10,767.25	13,863.48	1,214.71	0.00	586.34	41,812.53	222.88	42,035.41
2008	9,381.42	6,253.09	11,020.20	13,546.46	1,250.78	0.00	550.16	42,002.11	233.80	42,235.91
2009	9,779.26	6,379.67	10,951.08	12,369.37	1,288.25	0.00	693.71	41,461.34	271.96	41,733.30
2010	10,715.93	6,859.18	11,489.17	13,778.76	1,357.89	0.00	546.51	44,747.45	312.71	45,060.16
Growth Rate (%)										
2003	4.88	5.15	5.88	4.21	-3.02	0.00	1.73	4.63	0.36	4.61
2004	4.20	5.38	5.89	3.70	1.95	0.00	0.83	4.52	3.44	4.51
2005	3.63	3.70	3.75	0.90	-4.02	0.00	9.73	2.50	3.19	2.51
2006	5.11	4.63	4.06	0.38	2.06	0.00	65.44	3.43	7.25	3.45
2007	1.67	1.84	1.73	-0.75	3.34	0.00	37.16	1.30	7.06	1.33
2008	1.64	1.67	2.35	-2.29	2.97	0.00	-6.17	0.45	4.90	0.48
2009	4.24	2.02	-0.63	-8.69	3.00	0.00	26.09	-1.29	16.32	-1.19
2010	9.58	7.52	4.91	11.39	5.41	0.00	-21.22	7.93	14.98	7.97
Share (%)										
2002	21.32	14.04	24.44	35.67	3.39	0.00	0.64	99.49	0.51	100.00
2003	21.37	14.11	24.74	35.53	3.14	0.00	0.62	99.51	0.49	100.00
2004	21.31	14.23	25.06	35.25	3.07	0.00	0.60	99.52	0.48	100.00
2005	21.54	14.39	25.37	34.70	2.87	0.00	0.64	99.52	0.48	100.00
2006	21.89	14.56	25.52	33.67	2.83	0.00	1.03	99.50	0.50	100.00
2007	21.96	14.63	25.61	32.98	2.89	0.00	1.39	99.47	0.53	100.00
2008	22.21	14.81	26.09	32.07	2.96	0.00	1.30	99.45	0.55	100.00
2009	23.43	15.29	26.24	29.64	3.09	0.00	1.66	99.35	0.65	100.00
2010	23.78	15.22	25.50	30.58	3.01	0.00	1.21	99.31	0.69	100.00

Source : MEA

Table 5.2-5Y Electricity Consumption in PEA Service Areas (Classified by Sector)

Unit : GWh

Year	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2002	14,336.29	4,727.54	5,486.76	34,137.01	2,421.48	192.13	402.40	61,703.62	778.09	62,481.72
2003	15,330.77	5,060.51	5,932.65	37,330.38	2,524.02	227.88	456.66	66,862.87	902.04	67,764.91
2004	16,203.70	5,467.16	6,588.03	41,373.99	2,614.47	250.76	626.12	73,124.23	995.99	74,120.22
2005	16,844.52	6,122.17	7,031.84	44,375.66	2,696.77	249.36	793.38	78,113.70	1,069.86	79,183.56
2006	17,768.23	6,519.48	7,911.25	47,051.36	2,803.58	240.02	761.27	83,055.17	1,327.84	84,383.01
2007	18,707.55	7,056.63	8,620.35	49,172.17	3,015.08	267.77	717.41	87,556.96	1,400.35	88,957.32
2008	19,309.80	7,476.60	9,433.90	49,060.36	3,140.78	281.46	899.23	89,602.13	1,543.63	91,145.76
2009	20,477.24	7,962.63	9,973.04	47,194.14	3,388.37	317.86	835.97	90,149.26	1,571.14	91,720.40
2010	22,500.56	8,726.67	11,156.83	52,761.37	3,691.49	335.29	1,576.89	100,749.10	1,720.98	102,470.08
Growth Rate (%)										
2003	6.94	7.04	8.13	9.35	4.23	18.61	13.48	8.36	15.93	8.46
2004	5.69	8.04	11.05	10.83	3.58	10.04	37.11	9.36	10.42	9.38
2005	3.95	11.98	6.74	7.25	3.15	-0.56	26.71	6.82	7.42	6.83
2006	5.48	6.49	12.51	6.03	3.96	-3.75	-4.05	6.33	24.11	6.57
2007	5.29	8.24	8.96	4.51	7.54	11.56	-5.76	5.42	5.46	5.42
2008	3.22	5.95	9.44	-0.23	4.17	5.11	25.34	2.34	10.23	2.46
2009	6.05	6.50	5.71	-3.80	7.88	12.93	-7.04	0.61	1.78	0.63
2010	9.88	9.60	11.87	11.80	8.95	5.48	88.63	11.76	9.54	11.72
Share (%)										
2002	22.94	7.57	8.78	54.64	3.88	0.31	0.64	98.75	1.25	100.00
2003	22.62	7.47	8.75	55.09	3.72	0.34	0.67	98.67	1.33	100.00
2004	21.86	7.38	8.89	55.82	3.53	0.34	0.84	98.66	1.34	100.00
2005	21.27	7.73	8.88	56.04	3.41	0.31	1.00	98.65	1.35	100.00
2006	21.06	7.73	9.38	55.76	3.32	0.28	0.90	98.43	1.57	100.00
2007	21.03	7.93	9.69	55.28	3.39	0.30	0.81	98.43	1.57	100.00
2008	21.19	8.20	10.35	53.83	3.45	0.31	0.99	98.31	1.69	100.00
2009	22.33	8.68	10.87	51.45	3.69	0.35	0.91	98.29	1.71	100.00
2010	21.96	8.52	10.89	51.49	3.60	0.33	1.54	98.32	1.68	100.00

Source : PEA

Table 5.2-6Y Electricity Consumption for the Whole Country (Classified by Sector)

Unit : GWh

Year	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2002	21,963.17	9,750.76	14,702.42	48,256.14	3,635.18	192.13	631.95	99,131.75	959.29	100,091.04
2003	23,329.55	10,342.59	15,767.06	51,844.91	3,701.10	227.88	690.18	105,903.28	1,083.87	106,987.15
2004	24,538.32	11,033.28	16,975.84	56,442.76	3,814.47	250.76	861.59	113,917.02	1,184.09	115,101.11
2005	25,481.90	11,894.13	17,781.04	59,669.40	3,848.48	249.36	1,051.77	119,976.07	1,263.96	121,240.03
2006	26,847.38	12,558.48	19,097.15	62,432.42	3,979.06	240.02	1,188.76	126,343.27	1,536.02	127,879.29
2007	27,937.98	13,206.94	19,990.72	64,552.61	4,229.80	267.77	1,303.76	131,489.58	1,623.24	133,112.81
2008	28,691.22	13,729.70	21,051.91	64,147.63	4,391.56	281.46	1,449.39	133,742.86	1,777.43	135,520.29
2009	30,256.50	14,342.30	21,341.24	60,873.53	4,676.62	317.86	1,529.67	133,337.73	1,843.11	135,180.83
2010	33,216.49	15,585.85	23,004.54	67,952.49	5,049.39	335.29	2,123.40	147,267.44	2,033.69	149,301.13
Growth Rate (%)										
2003	6.22	6.07	7.24	7.44	1.81	18.61	9.21	6.83	12.99	6.89
2004	5.18	6.68	7.67	8.87	3.06	10.04	24.84	7.57	9.25	7.58
2005	3.85	7.80	4.74	5.72	0.89	-0.56	22.07	5.32	6.75	5.33
2006	5.36	5.59	7.40	4.63	3.39	-3.75	13.02	5.31	21.52	5.48
2007	4.06	5.16	4.68	3.40	6.30	11.56	9.67	4.07	5.68	4.09
2008	2.70	3.96	5.31	-0.63	3.82	5.11	11.17	1.71	9.50	1.81
2009	5.46	4.46	1.37	-5.10	6.49	12.93	5.54	-0.30	3.69	-0.25
2010	9.78	8.67	7.79	11.63	7.97	5.48	38.81	10.45	10.34	10.45
Share (%)										
2002	21.94	9.74	14.69	48.21	3.63	0.19	0.63	99.04	0.96	100.00
2003	21.81	9.67	14.74	48.46	3.46	0.21	0.65	98.99	1.01	100.00
2004	21.32	9.59	14.75	49.04	3.31	0.22	0.75	98.97	1.03	100.00
2005	21.02	9.81	14.67	49.22	3.17	0.21	0.87	98.96	1.04	100.00
2006	20.99	9.82	14.93	48.82	3.11	0.19	0.93	98.80	1.20	100.00
2007	20.99	9.92	15.02	48.49	3.18	0.20	0.98	98.78	1.22	100.00
2008	21.17	10.13	15.53	47.33	3.24	0.21	1.07	98.69	1.31	100.00
2009	22.38	10.61	15.79	45.03	3.46	0.24	1.13	98.64	1.36	100.00
2010	22.25	10.44	15.41	45.51	3.38	0.22	1.42	98.64	1.36	100.00

Source : MEA, PEA and EGAT

Table 5.3-1Y EGAT Fuel Consumption in Power Generation

Year	Fuel Oil (M.Litres)	Diesel Oil (M.Litres)	Natural Gas (MMSCFD)	Lignite (Ton)
1986	866	8	257	4,685,127
1987	575	5	396	5,726,917
1988	831	5	473	5,895,752
1989	1,195	17	484	6,764,206
1990	2,532	163	473	9,875,324
1991	3,164	62	606	11,724,691
1992	3,719	71	640	12,370,539
1993	4,322	288	725	11,490,328
1994	4,789	474	820	12,155,884
1995	5,258	756	838	13,567,494
1996	5,068	1,320	929	16,405,340
1997	4,665	729	1,170	18,010,806
1998	4,253	306	1,205	15,388,095
1999	3,762	135	1,206	13,893,584
2000	2,364	29	1,305	14,120,569
2001	647	75	1,504	15,744,116
2002	499	41	1,632	15,035,329
2003	605	23	1,624	15,406,532
2004	1,296	55	1,671	16,536,694
2005	1,851	49	1,740	16,571,091
2006	1,895	21	1,766	15,815,374
2007	780	8	1,715	15,811,050
2008	249	8	1,558	16,407,465
2009	111	13	1,541	15,818,265
2010	140	12	1,879	16,004,196

Source : EGAT

Remarks : From Dec 1994 onwards, Diesel Oil does not Include Regco Use



● ● Chapter 6
ENERGY VALUE

● ● บทที่ 6
มูลค่าพลังงาน



บทที่ 6 มูลค่าพลังงาน

มูลค่าการใช้พลังงาน ของไทยมีแนวโน้มเพิ่มขึ้นต่อเนื่องทุกปี โดยในปี 2553 มีมูลค่าการใช้พลังงานอยู่ที่ระดับ 1,790 พันล้านบาท เพิ่มขึ้นจากปีก่อนร้อยละ 13.5 โดยมูลค่าการใช้น้ำมันสำเร็จรูปมีสัดส่วนมากที่สุดคิดเป็นร้อยละ 62 ของมูลค่าการใช้พลังงานทั้งหมด อยู่ที่ระดับ 1,102 พันล้านบาท เพิ่มขึ้นร้อยละ 15.3 จากปีก่อน รองลงมาเป็นมูลค่าการใช้ไฟฟ้าคิดเป็นสัดส่วนร้อยละ 26 อยู่ที่ระดับ 473 พันล้านบาท เพิ่มขึ้นร้อยละ 10.0 มูลค่าการใช้พลังงานทดแทนคิดเป็นสัดส่วนร้อยละ 7 อยู่ที่ระดับ 118 พันล้านบาท เพิ่มขึ้นร้อยละ 2.0 มูลค่าการใช้ก๊าซธรรมชาติคิดเป็นสัดส่วนร้อยละ 4 อยู่ที่ระดับ 69 พันล้านบาท เพิ่มขึ้นร้อยละ 39.5 และมูลค่าการใช้ถ่านหินคิดเป็นสัดส่วนร้อยละ 2 อยู่ที่ระดับ 29 พันล้านบาท เพิ่มขึ้นร้อยละ 4.4

มูลค่าการนำเข้าพลังงาน ในปี 2553 มีมูลค่าการนำเข้าทั้งหมด 911 พันล้านบาท เพิ่มขึ้นจากปีก่อนร้อยละ 19.8 โดยมูลค่าการนำเข้าพลังงานเพิ่มขึ้นทุกประเภท

มูลค่าการนำเข้าน้ำมันดิบมีสัดส่วนมากที่สุดคิดเป็นร้อยละ 82 ของมูลค่าการนำเข้าทั้งหมด อยู่ที่ระดับ 751 พันล้านบาท เพิ่มขึ้นร้อยละ 20.6 รองลงมาเป็นก๊าซธรรมชาติมีมูลค่าการนำเข้าคิดเป็นสัดส่วนร้อยละ 9 อยู่ที่ระดับ 84 พันล้านบาท เพิ่มขึ้นร้อยละ 0.3 มูลค่าการนำเข้าถ่านหินคิดเป็นสัดส่วนร้อยละ 4 อยู่ที่ระดับ 39 พันล้านบาท เพิ่มขึ้นร้อยละ 6.6 น้ำมันสำเร็จรูปมีมูลค่าการนำเข้า 28 พันล้านบาทคิดเป็นสัดส่วนร้อยละ 3 เพิ่มขึ้นร้อยละ 113.7 และไฟฟ้านำเข้ามีมูลค่า 8 พันล้านบาทคิดเป็นสัดส่วนร้อยละ 0.9 เพิ่มขึ้นร้อยละ 119.6

ประเทศไทยมีสัดส่วนมูลค่าการนำเข้าพลังงานต่อมูลค่าการใช้พลังงานทั้งหมดเพิ่มขึ้นต่อเนื่องทุกปี โดยในปี 2553 มีสัดส่วนการนำเข้าต่อการใช้เพิ่มขึ้นอยู่ที่ระดับร้อยละ 51 สูงกว่าปีที่ผ่านมาซึ่งอยู่ที่ระดับร้อยละ 48

Chapter 6 Energy Value



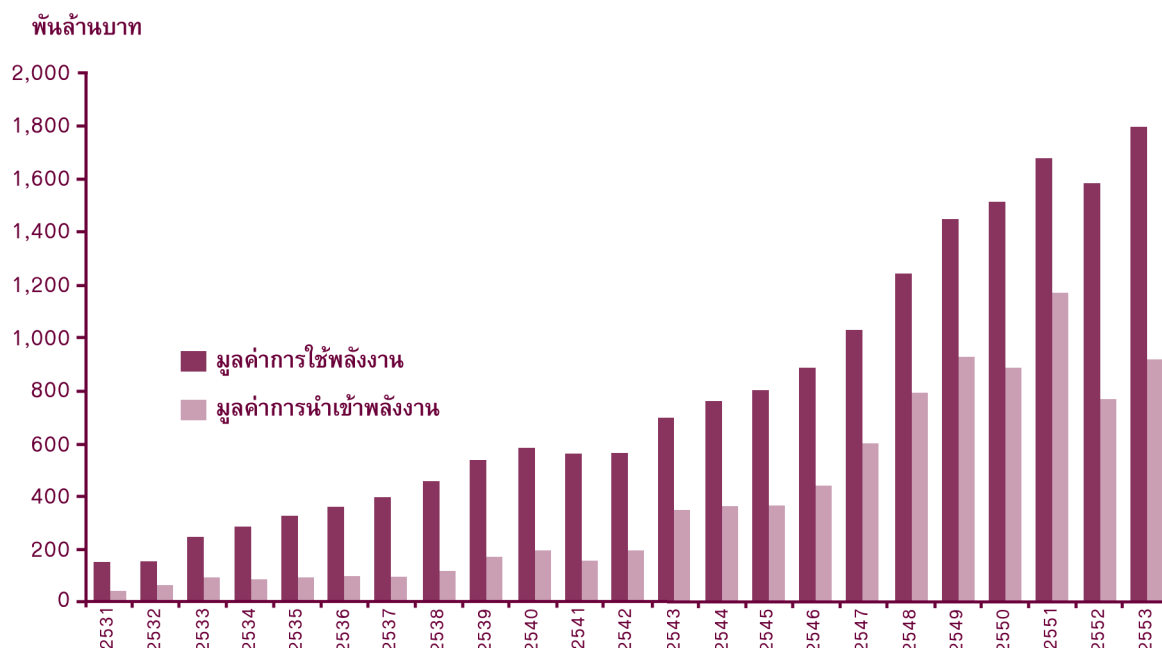
Nominal Value of Energy Consumption. Thailand's expenditure on energy consumption had been increasing each year. In 2010, the nominal value of energy consumption in Thailand totaled 1,790 billion Baht (approx. US\$ 57.7 billion, at a rate of 31 THB/US\$), an increase of 13.5% from that in the previous year. Petroleum product consumption was worth 1,102 billion Baht, an increase of 15.3% compared with the previous year, accounting for the largest share of 62% of the total energy consumption value. Next to it was the electricity consumption of which the nominal value was 473 billion Baht, an increase of 10.0%, accounting for a share of 26%. Renewable/alternative energy consumption was worth 118 billion Baht, an increase of 2.0%, accounting for a share of 7%. Natural gas consumption was worth 69 billion Baht, an increase of 39.5%, accounting for a share of 4%. Lignite/coal consumption was worth 29 billion Baht, an increase of 4.4%, holding a share of 2%.

Nominal Value of Energy Import. In 2010, total energy import into Thailand was worth 911 billion Baht, an increase of 19.8% from that in the previous year, with increasing import value of all energy types.

The value of imported crude oil, which constituted the largest share (82%) of the total import value, was 751 billion Baht, accounting for an increase of 20.6%. Next to it was that of natural gas import, holding a share of 9%, worth 84 billion Baht, an increase of 0.3%; then coal import which was worth 39 billion Baht, an increase of 6.6%, holding a share of 4%. Petroleum product import was worth 28 billion Baht, an increase of 113.7%, holding a share of 3%; and finally imported electricity, worth 8 billion Baht, a considerable increase of 119.6%, but still holding a meager share of 0.9%.

In Thailand, the ratio of energy import value to total energy consumption value increases each year. In 2010 the ratio was 51%, increasing from 48% in the previous year.

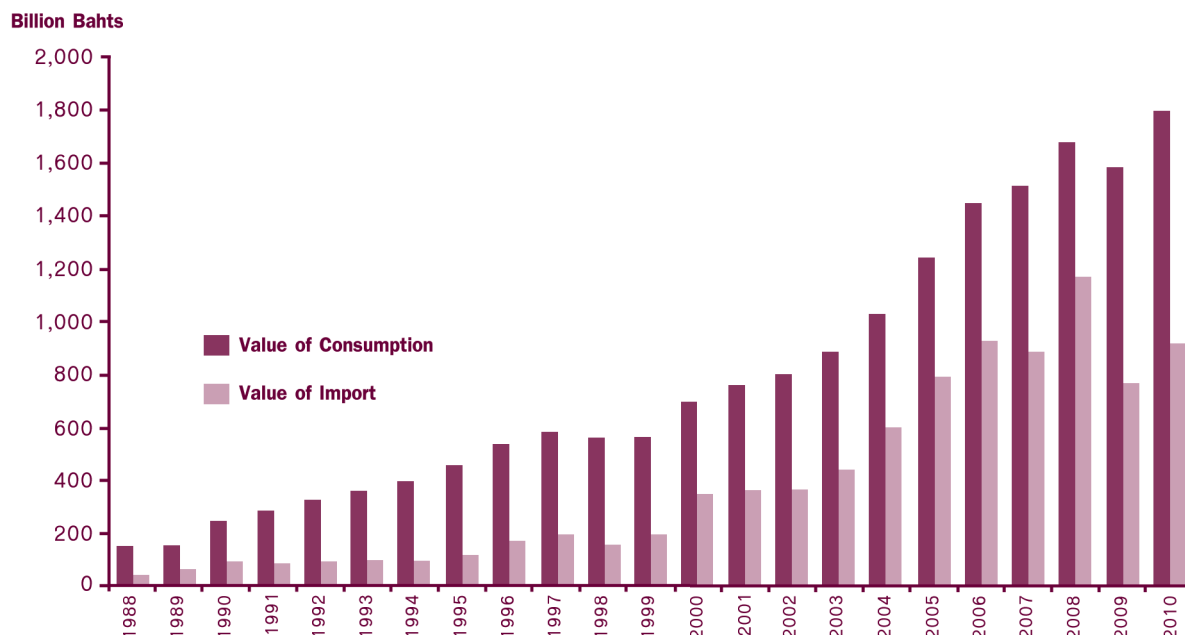
มูลค่าการใช้และการนำเข้าพลังงาน



มูลค่าการใช้น้ำมันสำเร็จรูป ในปี 2553 มีมูลค่าการใช้อยู่ที่ระดับ 1,102 พันล้านบาท เพิ่มขึ้นจากปีก่อนร้อยละ 15.3 โดยมูลค่าการใช้ น้ำมันดีเซลมีสัดส่วนมากที่สุดคิดเป็นร้อยละ 47 ของมูลค่าการใช้ น้ำมันสำเร็จรูปทั้งหมด เพิ่มขึ้นร้อยละ 19.2 รองลงมาเป็นน้ำมันเบนซินมีมูลค่าการใช้คิดเป็นสัดส่วนร้อยละ 23 เพิ่มขึ้นร้อยละ 15.9 น้ำมันเครื่องบินมีมูลค่าการใช้คิดเป็นสัดส่วนร้อยละ 16 เพิ่มขึ้นร้อยละ 7.2 ก๊าซ LPG มีมูลค่าการใช้คิดเป็นสัดส่วนร้อยละ 9 เพิ่มขึ้นร้อยละ 16.3 และน้ำมันเตามีมูลค่าการใช้คิดเป็นสัดส่วนร้อยละ 5 เพิ่มขึ้นร้อยละ 4.6

มูลค่าการส่งออกพลังงาน ในปี 2553 มีมูลค่าการส่งออกอยู่ที่ระดับ 261 พันล้านบาท เพิ่มขึ้นจากปีก่อนร้อยละ 10.7 โดยมูลค่าการส่งออกน้ำมันปิโตรเลียมมีสัดส่วนการส่งออกมากที่สุดคิดเป็นร้อยละ 89 ของมูลค่าการส่งออกทั้งหมด เพิ่มขึ้นร้อยละ 12.9 รองลงมาเป็นน้ำมันดิบมีสัดส่วนการส่งออกคิดเป็นร้อยละ 10 ของมูลค่าการส่งออกทั้งหมด ลดลงร้อยละ 4.8 และไฟฟ้ามีสัดส่วนการส่งออกน้อยที่สุดคิดเป็นร้อยละ 1 ของมูลค่าการส่งออกทั้งหมด ลดลงร้อยละ 3.7

Nominal Value of Energy Consumption & Import



Nominal Value of Petroleum Product Consumption. In 2010, the worth of petroleum product consumption was 1,102 billion Baht, increasing by 15.3% from that in 2009. The worth of diesel consumption increased by 19.2%, accounting for the largest share (47%) of the total petroleum product consumption value. Next to it was gasoline, holding a share of 23% of the total consumption value, or an increase of 15.9%. Jet petroleum had a share of 16%, increasing by 7.2%; LPG holding a share of 9%, increasing by 16.3%; and fuel oil, holding a share of 5%, increasing by 4.6%.

Nominal Value of Energy Export. In 2010, the nominal value of energy export stood at 261 billion Baht, increasing by 10.7% from that in the previous year. Petroleum product export accounted for the largest share, i.e. 89%, of the total energy export value, accounting for an increase of 12.9%. Next to it was crude oil, worth 10% of the total energy export value, decreasing by 4.8%; and then electricity, holding only 1% of the total energy export value, decreasing by 3.7%.

Table 6.1-1Y Expenditure on Final Energy Consumption

Energy Type	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Petroleum Products	78,453	83,866	94,097	109,861	132,004	161,577	171,865	188,741	199,027	232,997	280,397	318,671
Electricity			47,171	54,597	62,452	73,201	87,415	98,309	111,621	136,348	153,546	162,300
Natural Gas	26	59	177	361	567	827	1,200	1,519	2,067	3,059	3,398	4,685
Lignite/Coal	633	741	873	1,636	2,093	2,529	2,841	3,595	4,835	5,821	7,511	7,819
Renewable*					41,165	41,125	60,461	65,323	72,738	76,815	85,536	87,341
Total	79,112	84,666	142,318	166,455	238,281	279,260	323,783	357,487	390,288	455,040	530,388	580,815

Unit : Million Bahts

Table 6.1-1Y Expenditure on Final Energy Consumption (Cont.)

Energy Type	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Petroleum Products	306,762	309,746	407,912	430,516	451,554	515,313	605,407	774,404	915,461	955,370	1,089,748	955,715	1,102,009
Electricity	175,658	168,137	199,323	232,967	245,877	266,082	300,608	328,237	385,135	390,731	394,538	429,609	472,575
Natural Gas	4,622	5,942	10,283	11,396	13,413	16,404	16,361	22,275	28,880	35,110	53,867	49,272	68,724
Lignite/Coal	5,870	6,202	5,667	7,569	8,767	10,033	13,349	18,438	18,024	23,128	28,594	27,821	29,065
Renewable*	63,635	65,235	66,958	70,255	69,932	75,122	86,235	95,541	97,142	102,103	103,991	115,268	129,370
Total	556,547	555,262	690,142	752,702	789,544	882,955	1,021,960	1,238,894	1,444,642	1,506,442	1,670,738	1,577,685	1,801,743

Unit : Million Bahts

*Estimate

Source : PTT, EGAT, DOE, DEDE

Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-2Y Expenditure on Petroleum Product Consumption

Unit : Million Bahts

Energy Type	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Gasoline	20,688	21,293	24,699	28,069	32,340	38,062	39,703	44,377	47,775	57,017	64,344	76,622
– Regular	11,799	12,167	13,718	15,175	16,379	19,159	19,215	19,260	18,247	19,572	19,161	19,841
– Premium	8,889	9,126	10,980	12,894	15,961	18,902	20,489	25,118	29,527	37,445	45,183	56,781
Kerosene	876	789	769	730	838	987	1,004	960	969	878	985	951
Diesel	37,225	40,452	44,389	52,631	65,596	79,712	80,493	92,436	94,884	112,987	142,109	158,139
– HSD	36,782	39,885	43,815	51,867	64,833	78,623	79,254	90,891	93,268	111,531	140,747	156,744
– LSD	443	567	574	764	763	1,089	1,238	1,545	1,616	1,457	1,362	1,395
J.P.	8,383	9,120	11,210	12,927	15,610	21,923	24,334	25,896	26,707	28,681	33,993	39,547
Fuel Oil	5,251	5,517	5,582	7,146	8,491	10,138	14,381	12,161	14,739	18,085	20,733	23,515
LPG (Million Kgs.)	6,024	6,695	7,450	8,359	9,129	10,756	11,950	12,910	13,953	15,350	18,233	19,897
Total	78,445	83,866	94,098	109,861	132,004	161,577	171,865	188,741	199,027	232,997	280,397	318,671

Table 6.1-2Y Expenditure on Petroleum Product Consumption (Cont.)

Unit : Million Bahts

Energy Type	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Gasoline	83,661	84,184	102,308	102,318	107,765	122,450	141,585	166,787	193,415	204,467	220,348	214,832	249,036
– Regular	24,571	26,873	49,214	55,815	62,104	71,232	84,390	100,458	121,885	132,532	138,594	124,046	154,621
– Premium	59,090	57,311	53,094	46,503	45,662	51,218	57,195	66,329	71,531	71,935	81,754	90,786	94,415
Kerosene	647	613	739	903	963	604	454	520	562	526	593	657	572
Diesel	137,998	139,458	192,492	203,176	210,375	245,980	285,424	386,712	468,950	478,902	542,811	438,079	522,176
– HSD	136,875	138,232	191,153	201,792	208,925	244,615	283,922	385,320	467,443	478,082	542,508	438,079	522,176
– LSD	1,123	1,226	1,340	1,384	1,450	1,366	1,502	1,392	1,507	819	303		
J.P.	38,846	39,100	52,845	59,339	58,802	62,995	82,786	105,301	128,856	142,742	175,118	164,897	176,736
Fuel Oil	23,646	26,931	36,980	36,194	39,625	45,350	52,239	65,574	68,524	63,754	69,647	52,101	54,454
LPG (Million Kgs.)	21,964	19,460	22,547	28,586	34,024	37,933	42,920	49,510	55,153	64,981	81,232	85,148	98,990
Total	306,762	309,746	407,912	430,516	451,554	515,313	605,407	774,404	915,461	955,370	1,089,748	955,715	1,101,963

Remarks : Final Energy Consumption
Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-3Y Value of Energy Import

Energy Type	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Crude Oil	21,375	26,833	21,414	32,593	42,792	39,855	48,644	51,024	55,363	72,122	121,937	166,545
Pet. Products	7,699	13,485	16,207	23,120	39,064	39,039	33,458	37,254	32,839	37,203	37,101	20,772
Natural Gas												
Coal	355	442	516	864	646	719	649	1,019	1,719	2,174	3,985	3,813
Electricity												710
Total Import	29,428	40,760	38,136	56,577	82,502	79,613	82,751	89,298	89,920	111,499	163,023	191,840

Table 6.1-3Y Value of Energy Import (Cont.)

Energy Type	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Crude Oil	137,100	169,633	285,862	284,373	286,953	346,057	486,627	644,933	753,783	715,789	1,002,667	623,024	751,496
Pet. Products	10,538	15,122	39,028	30,668	27,854	33,168	44,677	59,825	62,381	50,251	41,063	29,116	68,498
Natural Gas			7,839	30,559	35,073	42,635	46,053	62,827	77,843	78,901	90,506	84,208	84,481
Coal	2,068	4,010	5,068	7,489	7,872	9,370	12,275	15,422	18,896	29,656	36,456	36,935	39,361
Electricity	2,494	3,431	4,671	4,701	4,474	4,159	5,659	7,114	8,294	7,414	4,540	3,623	8,157
Total Import	152,200	192,196	342,468	357,790	362,226	435,389	595,291	790,122	921,197	882,012	1,175,232	776,906	951,992

Source : PTT, EGAT, DOEB, DEDE
Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-4Y Value of Energy Export

Energy Type	1992	1993	1994	1995	1996	1997	1998	1999	2000
Unit : Million Bahts									
Crude Oil									
Petroleum Products									
Electricity	71	82	100	142	163	188	292	334	329
Total	71	82	100	142	163	188	292	334	329

Table 6.1-4Y Value of Energy Export (Cont.)

Energy Type	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Unit : Million Bahts										
Crude Oil	14,449	18,075	29,356	33,883	52,858	56,835	45,812	56,575	27,410	26,107
Petroleum Products				86,459	111,534	160,926	159,077	260,384	205,286	232,101
Electricity	407	435	499	646	1,325	1,730	2,107	2,253	3,365	3,096
Total	14,855	18,510	29,855	120,989	165,718	219,491	206,995	319,212	236,061	261,305

Source : PTT, EGAT, DOE, DEDE
Compiled by : Energy Policy and Planning Office (EPPO)





● ● Chapter 7
ENERGY AND ECONOMICS

● ● บทที่ 7
พลังงานกับเศรษฐกิจ

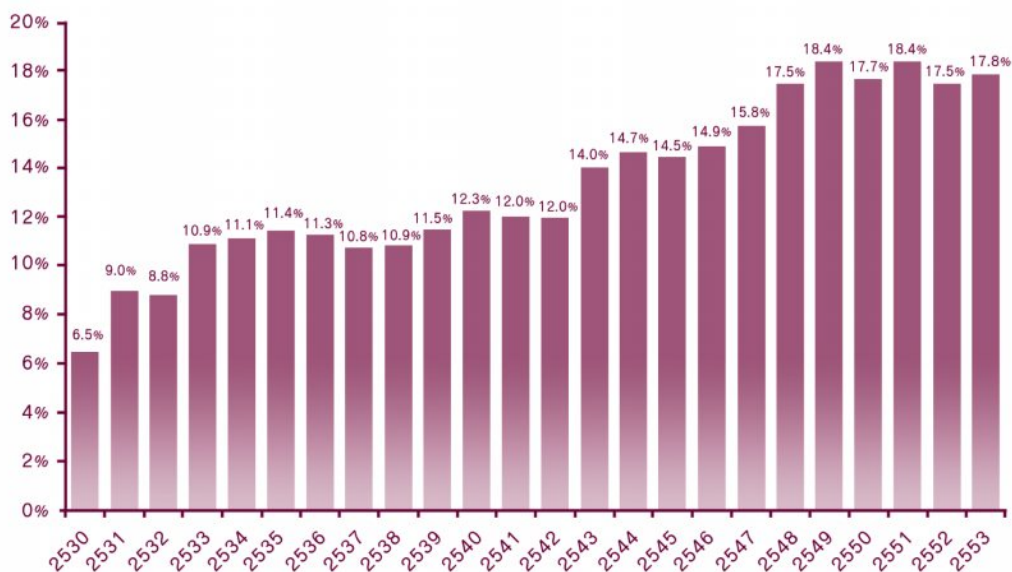


บทที่ 7 พลังงานกับเศรษฐกิจ

อัตราการเจริญเติบโตทางเศรษฐกิจของไทย (GDP) ปี 2553 ขยายตัวร้อยละ 7.8 ตามการฟื้นตัวทางเศรษฐกิจโลกและอุปสงค์ภายในประเทศ ส่งผลให้การส่งออก การนำเข้าสินค้าและบริการ การใช้จ่ายเพื่อการบริโภคของครัวเรือน ตลอดจนการลงทุนภาคเอกชนมีการขยายตัวในระดับสูง โดยเฉพาะอย่างยิ่งในภาคอุตสาหกรรม

มูลค่าการใช้พลังงานต่อ GDP ณ ราคาตลาด คือ การเปรียบเทียบสัดส่วนมูลค่าการใช้พลังงานต่อรายได้ประชาชาติ ซึ่งมีแนวโน้มเพิ่มขึ้น โดยในปี 2553 ประเทศไทยมีมูลค่าการใช้พลังงานต่อ GDP อยู่ที่ย้อยละ 17.8 ในขณะที่ปี 2530 มีสัดส่วนอยู่ที่ร้อยละ 6.5 เท่านั้น ทั้งนี้ในปี 2551 มีสัดส่วนมากที่สุดอยู่ที่ร้อยละ 18.4 เนื่องจากราคาน้ำมันอยู่ในระดับสูงมาก

สัดส่วนมูลค่าการใช้พลังงานต่อผลิตภัณฑ์มวลรวมประชาชาติ (ณ ราคาตลาด)



มูลค่าการนำเข้าพลังงานต่อ GDP ณ ราคาตลาด คือการเปรียบเทียบสัดส่วนมูลค่าการนำเข้าพลังงานต่อรายได้ประชาชาติ โดยในช่วงปี 2530-2540 ซึ่งเป็นช่วงก่อนเกิดวิกฤตเศรษฐกิจ ประเทศไทยใช้จ่ายเงินในการนำเข้าพลังงานเฉลี่ยอยู่ที่ร้อยละ 3 ของ GDP เนื่องจากราคาพลังงานอยู่ในระดับต่ำ แต่ในช่วงหลังเกิดวิกฤตเศรษฐกิจราคาน้ำมันดิบปรับตัวสูงขึ้นมาก จึงมีผลทำให้ประเทศไทยต้องสูญเสียเงินตราต่างประเทศเพิ่มขึ้น โดยในปี 2551 ราคาน้ำมันดิบอยู่ในระดับสูง ประเทศไทยจึงต้องใช้จ่ายเงินในการนำเข้าพลังงานสูงถึงร้อยละ 12.8 ของ GDP และปัจจุบันปี 2553 ประเทศไทยใช้จ่ายเงินในการนำเข้าพลังงานอยู่ที่ร้อยละ 9.0 ของ GDP

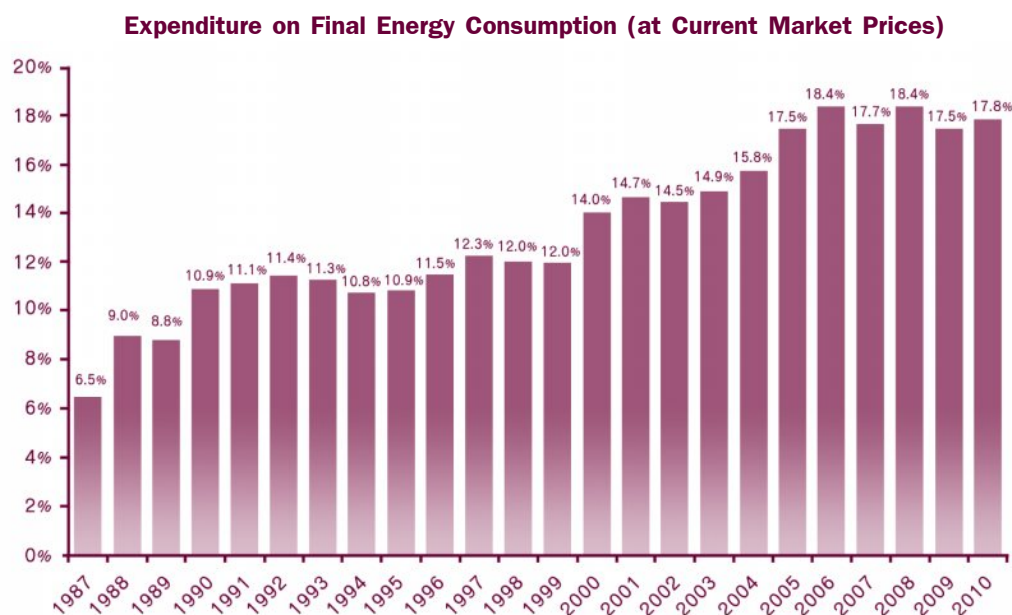
Chapter 7

Energy and Economics



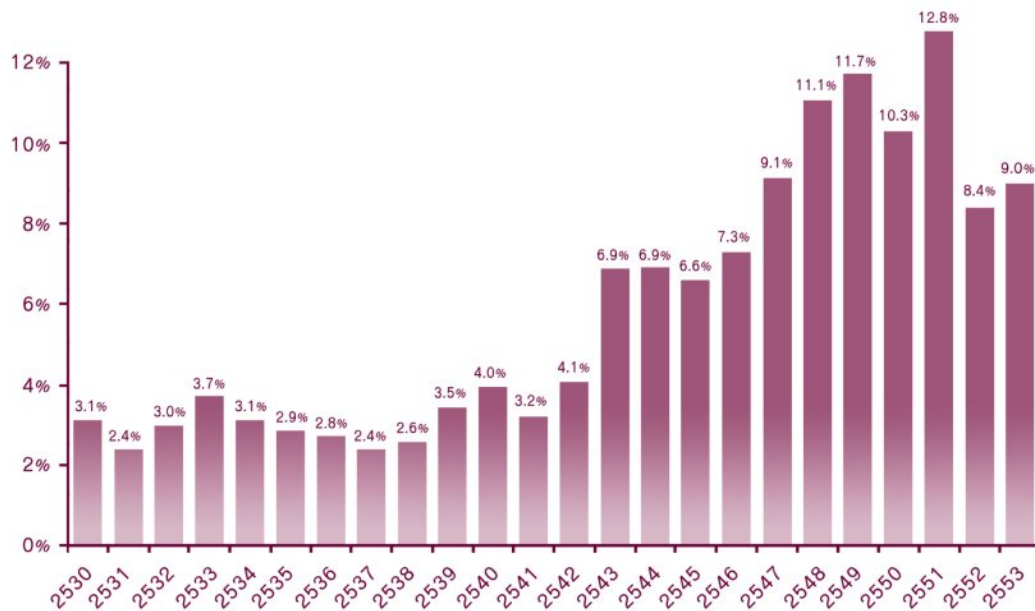
In 2010, Thailand's economic growth rate (gross domestic product: GDP) increased by 7.8% following the global economic recovery and increase in domestic demand, resulting in considerable growth of export/import of goods and services, household expenditures, and private sector investment, especially in the industrial sector.

Expenditure on Final Energy Consumption to GDP at Current Market Prices – This is the percentage of energy consumption nominal value in comparison with the GDP of the country, of which the trend had been increasing. In 2010, the ratio of energy consumption nominal value to GDP of Thailand was 17.8% while that in 1987 was only at 6.5%. The highest ratio ever experienced in Thailand was in the year 2008, i.e. 18.4%, as oil prices were then excessively high.



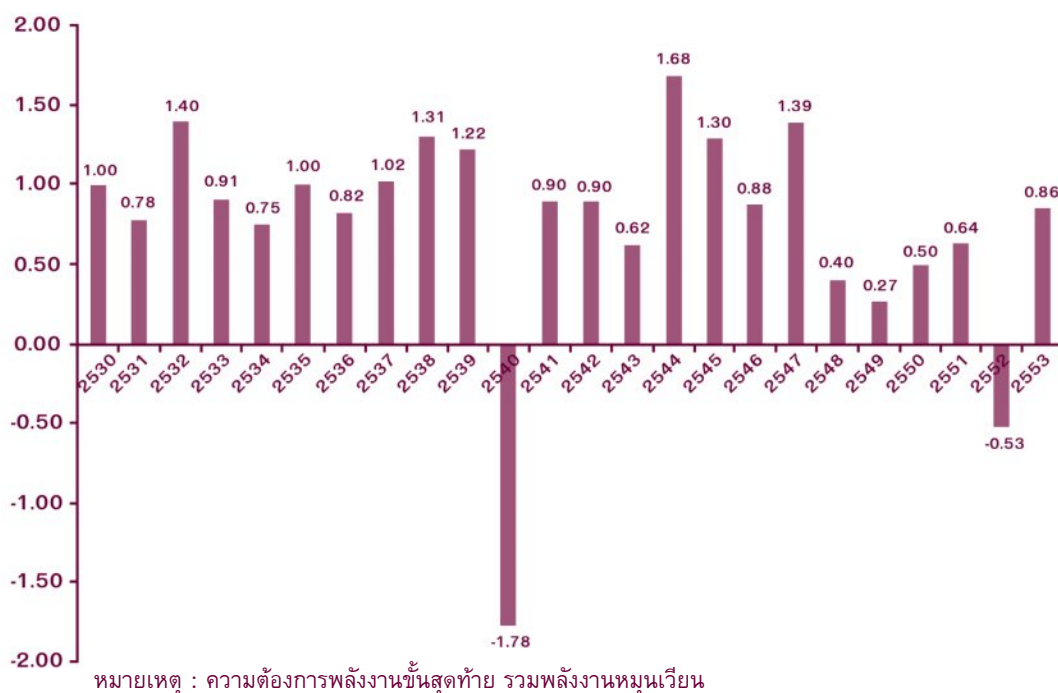
Nominal Value of Energy Import to GDP at Current Market Prices – This is the percentage of energy import nominal value in comparison with the national GDP. During 1987–1997, prior to the (Asian) economic crisis, Thailand's expenditure on energy import was at an average rate of 3% of the GDP as energy prices were then relatively low. However, after the economic crisis, crude oil prices sharply increased, causing an increasing loss of foreign currency to Thailand; particularly in 2008 when the crude oil price was exorbitantly high, Thailand had to spend on imported energy as high as 12.8% of the GDP. In 2010, Thailand's expenditure on energy import accounted for 9.0% of the GDP.

สัดส่วนมูลค่าการนำเข้าพลังงานต่อผลิตภัณฑ์มวลรวมประชาชาติ (ณ ราคาตลาด)

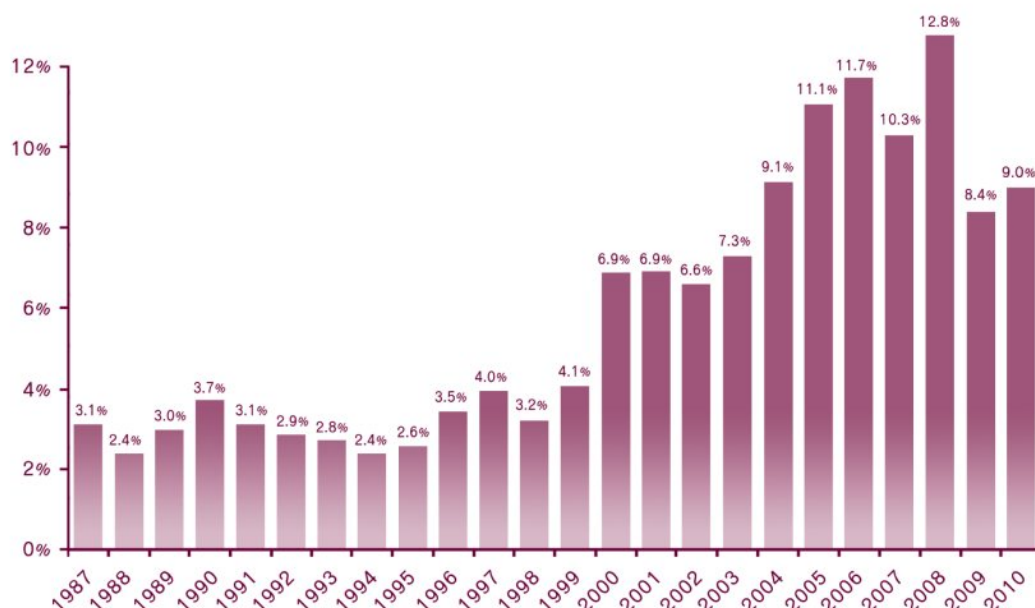


Energy Elasticity (EE) หรือความยืดหยุ่นการใช้พลังงาน คืออัตราการเปลี่ยนแปลงการใช้พลังงานต่ออัตราการเปลี่ยนแปลง GDP ซึ่งเป็นดัชนีชี้วัดประสิทธิภาพการใช้พลังงานในช่วง 20 ปีที่ผ่านมา คือปี 2533-2553 ค่า EE ของไทยอยู่ที่ระดับ 1.04 ซึ่งหมายถึงประเทศไทยต้องใช้พลังงานเพิ่มขึ้น 1.04 หน่วย เป็นต้นทุนในการผลิต GDP ให้ได้ผลผลิตเพิ่มขึ้น 1.00 หน่วย โดยในช่วง 10 ปีแรก คือปี 2533-2543 การใช้พลังงานยังไม่มีประสิทธิภาพมากนัก ค่า EE อยู่ที่ระดับ 1.11 แต่ในช่วงหลัง ประเทศไทยมีการปรับปรุงประสิทธิภาพการใช้พลังงานมากขึ้น เช่น ส่งเสริมการใช้เครื่องใช้ไฟฟ้าที่ติดฉลากประสิทธิภาพเบอร์ 5 ปรับปรุงเครื่องจักรในโรงงานอุตสาหกรรม และมาตรการประหยัดพลังงาน ทำให้ในช่วง 10 ปีหลัง คือปี 2543-2553 ค่า EE อยู่ที่ระดับ 0.86

ความยืดหยุ่นการใช้พลังงาน (รายปี)



Ratio of Nominal Value of Energy Import to GDP (at Current Market Prices)



Energy Elasticity (EE) is the percentage change in energy consumption to achieve one percent change in the national GDP, which is used as an indicator of energy utilization efficiency.

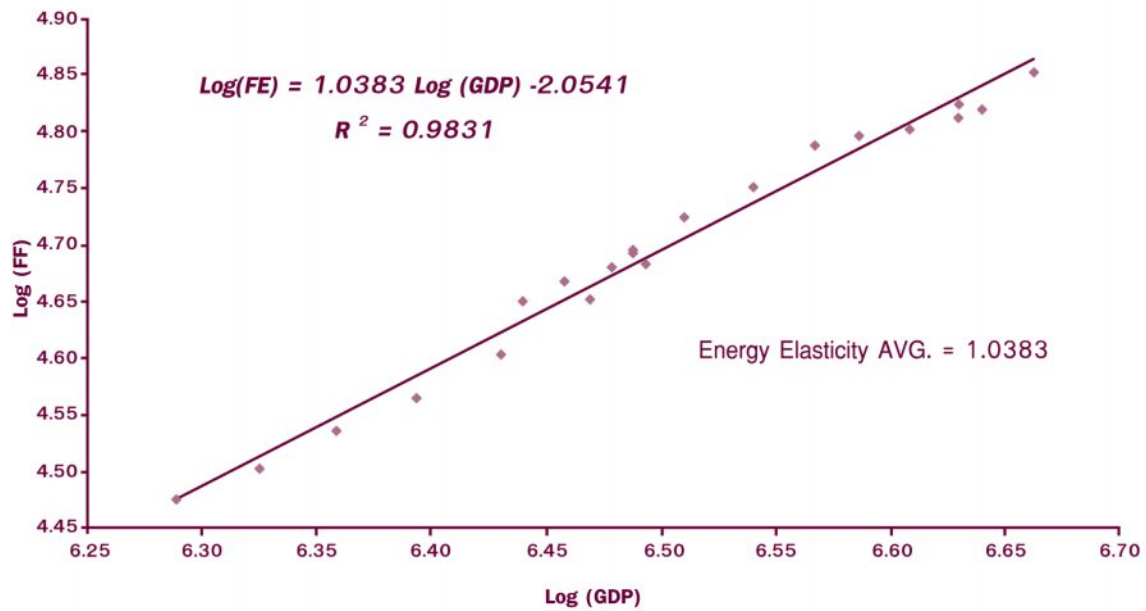
During the past 20 years, i.e. 1990–2010, Thailand’s average EE was at 1.04, which means that Thailand’s energy demand grew by 1.04 percent, as production capital, for every one percent increase in GDP. During the first decade, i.e. 1990–2000, energy efficiency had not much been improved, i.e. the average EE was at 1.11, but later on Thailand had put greater effort to improve the national energy efficiency. For example, promotion had been made on the use of electrical appliances with energy efficiency labeling No. 5 (high efficiency); improvement of machinery/equipment in industrial factories, and application of energy saving measures; these efforts resulted in improved EE during the second decade, i.e. during 2000–2010 the average EE was at 0.86.

Energy Elasticity (Yearly)



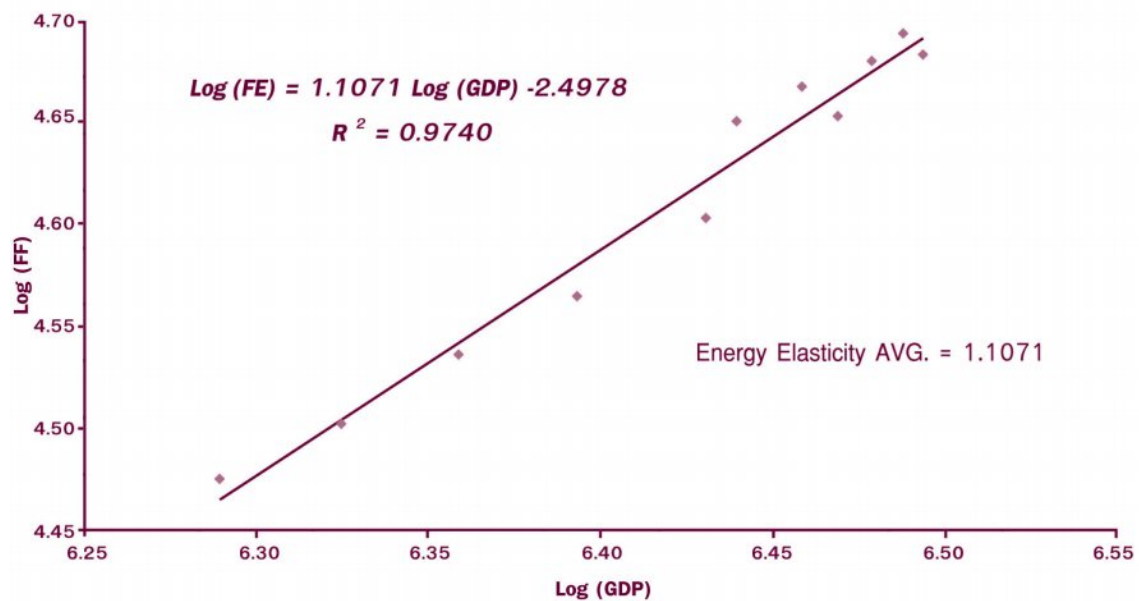
* Final Energy Demand including Renewable Energy

ความยืดหยุ่นการใช้พลังงาน (2533-2553)

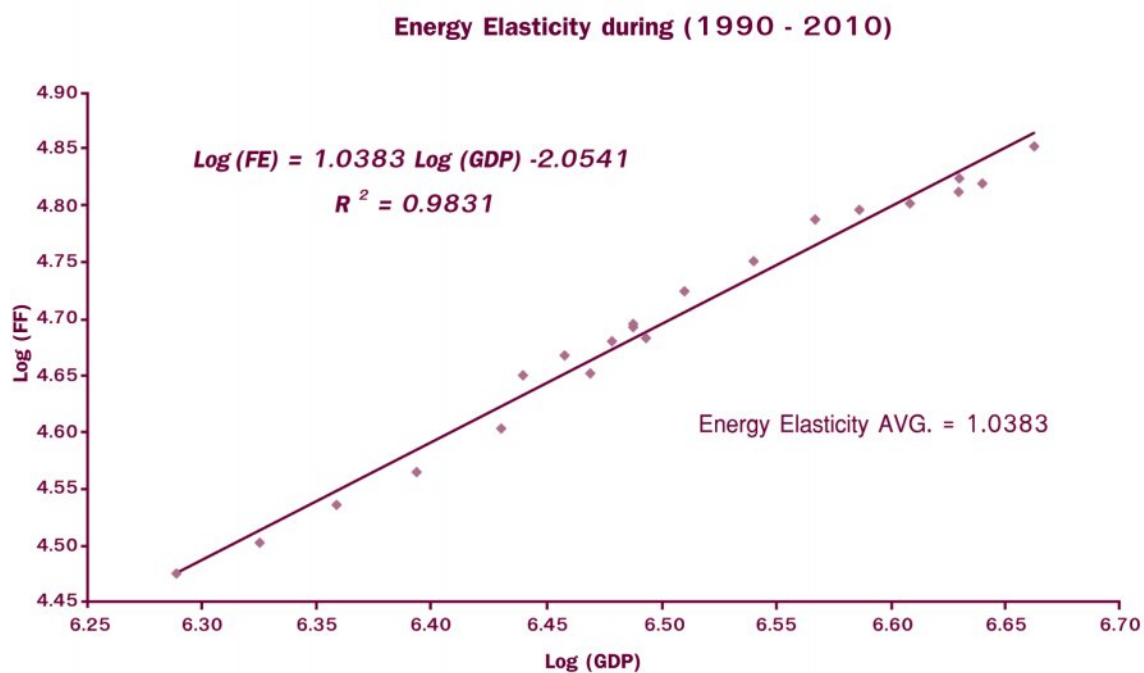


หมายเหตุ : ความต้องการพลังงานขั้นสุดท้ายรวมพลังงานหมุนเวียน

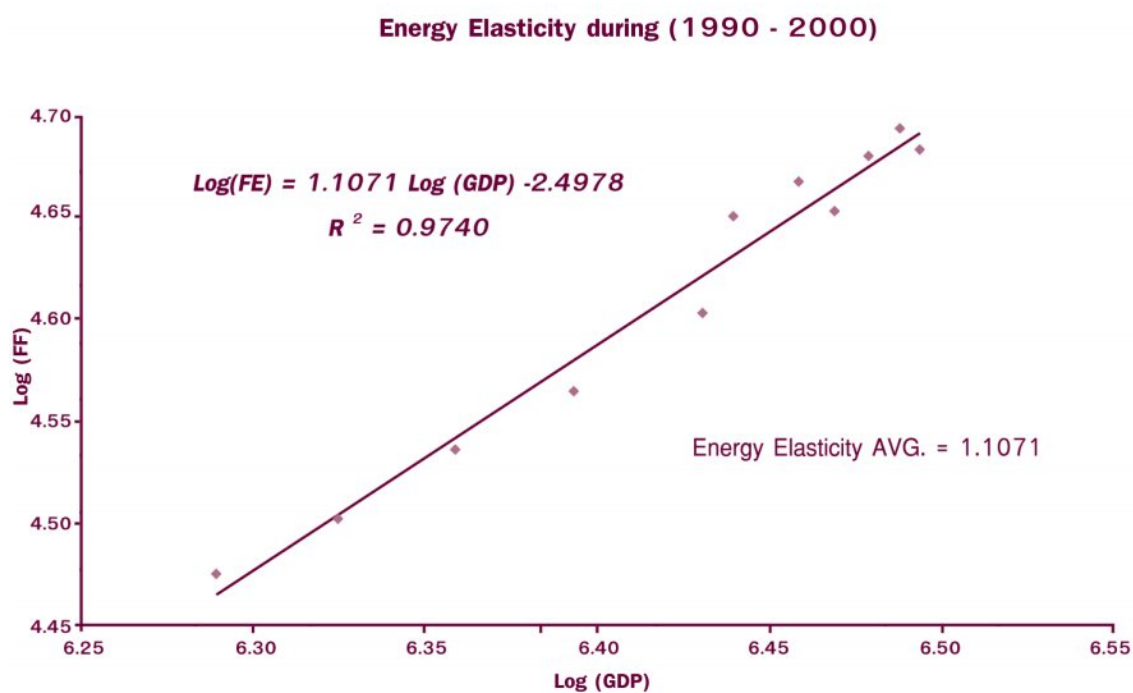
ความยืดหยุ่นการใช้พลังงาน (2533-2543)



หมายเหตุ : ความต้องการพลังงานขั้นสุดท้ายรวมพลังงานหมุนเวียน

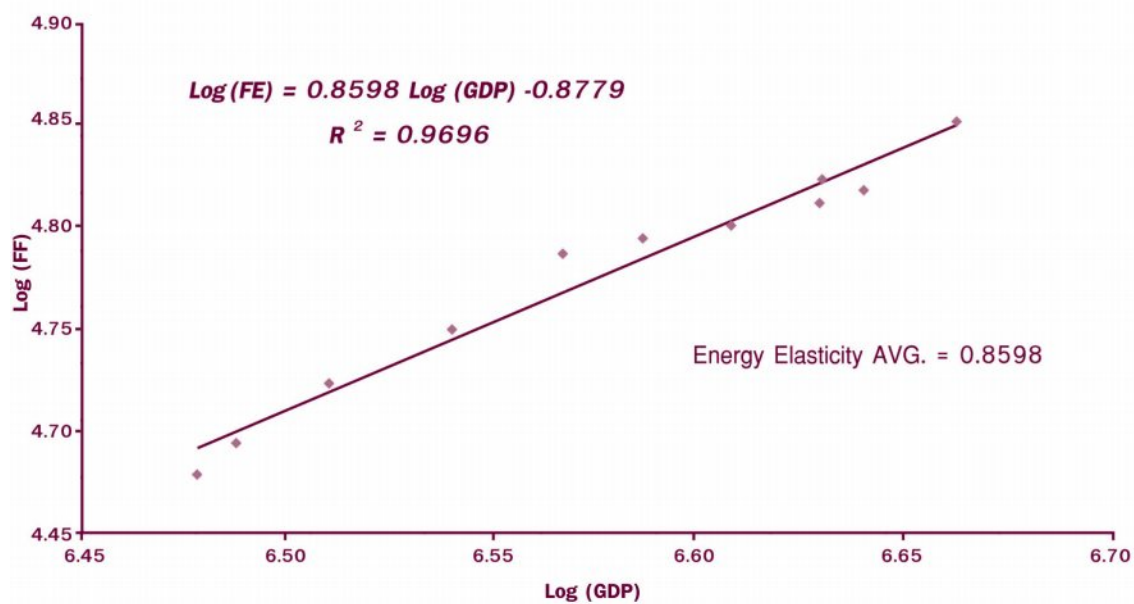


Remarks : Final Energy Demand including Renewable Energy

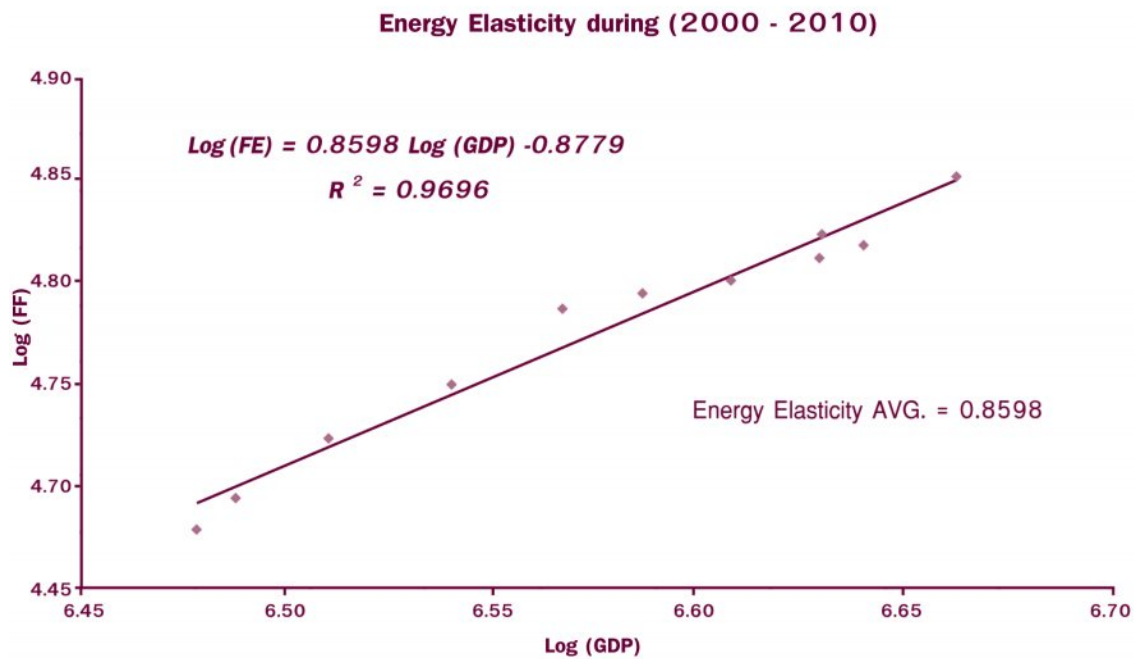


Remarks : Final Energy Demand including Renewable Energy

ความยืดหยุ่นการใช้พลังงาน (2543-2553)



หมายเหตุ : ความต้องการพลังงานขั้นสุดท้ายรวมพลังงานหมุนเวียน



Remarks : Final Energy Demand including Renewable Energy

Table 7.1-1 GDP at Constant 1988 Prices

Unit : Million Bahts

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Agriculture	228,191	228,346	252,346	276,569	263,607	282,740	296,277	255,106	265,893	276,590	288,840	286,833
Mining	21,511	24,107	26,599	28,227	31,053	36,085	37,959	40,770	43,841	44,748	52,892	59,973
Manufacturing	294,521	341,750	403,034	467,632	540,932	604,337	672,636	781,865	856,547	958,374	1,021,419	1,036,152
Construction	60,138	66,060	74,449	95,554	116,606	132,494	138,700	150,710	172,036	183,600	196,540	146,138
Electricity	29,890	31,515	35,298	42,259	46,841	51,750	57,115	62,413	69,335	79,054	81,962	86,705
Transportation	92,046	100,585	116,611	128,754	146,796	157,644	172,764	191,420	213,273	239,223	267,255	279,945
Res. and Com.	530,880	584,484	651,467	710,957	799,537	846,812	907,121	988,624	1,072,048	1,160,147	1,206,430	1,176,869
Total	1,257,177	1,376,847	1,559,804	1,749,952	1,945,372	2,111,862	2,282,572	2,470,908	2,692,973	2,941,736	3,115,338	3,072,615
Growth Rate (%)												
Agriculture	0.4	0.1	10.5	9.6	-4.7	7.3	4.8	-13.9	4.2	4.0	4.4	-0.7
Mining	-0.2	12.1	10.3	6.1	10.0	16.2	5.2	7.4	7.5	2.1	18.2	13.4
Manufacturing	9.8	16.0	17.9	16.0	15.7	11.7	11.3	16.2	9.6	11.9	6.6	1.4
Construction	1.5	9.8	12.7	28.3	22.0	13.6	4.7	8.7	14.2	6.7	7.0	-25.6
Electricity	10.9	5.4	12.0	19.7	10.8	10.5	10.4	9.3	11.1	14.0	3.7	5.8
Transportation	7.1	9.3	15.9	10.4	14.0	7.4	9.6	10.8	11.4	12.2	11.7	4.7
Res. and Com.	5.7	10.1	11.5	9.1	12.5	5.9	7.1	9.0	8.4	8.2	4.0	-2.5
Total	5.5	9.5	13.3	12.2	11.2	8.6	8.1	8.3	9.0	9.2	5.9	-1.4

Table 7.1-1 GDP at Constant 1988 Prices (Cont.)

Unit : Million Bahts

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Agriculture	282,606	289,178	309,948	320,016	322,179	363,033	354,431	347,892	365,428	369,772	385,225	390,362	381,401
Mining	56,244	60,865	64,235	64,622	71,741	76,616	80,837	88,081	91,585	95,088	95,280	96,105	101,141
Manufacturing	923,602	1,033,431	1,096,168	1,111,457	1,190,807	1,318,279	1,426,338	1,499,882	1,588,105	1,686,372	1,751,411	1,645,015	1,873,170
Construction	90,235	84,060	76,323	76,471	80,615	82,837	88,790	93,809	98,086	100,511	95,190	95,551	102,090
Electricity	86,117	88,823	97,570	103,937	110,137	115,195	122,525	129,004	135,114	141,975	147,603	148,880	163,848
Transportation	254,462	270,147	290,388	310,058	331,168	340,644	366,290	383,925	407,682	432,037	429,933	413,666	430,338
Res. and Com.	1,056,418	1,045,476	1,073,769	1,087,040	1,130,395	1,171,562	1,248,978	1,315,426	1,368,504	1,433,271	1,460,191	1,473,560	1,544,124
Total	2,749,684	2,871,980	3,008,401	3,073,601	3,237,042	3,468,166	3,688,189	3,858,019	4,054,504	4,259,026	4,364,833	4,263,139	4,596,112
Growth Rate (%)													
Agriculture	-1.5	2.3	7.2	3.2	0.7	12.7	-2.4	-1.8	5.0	1.2	4.2	1.3	-2.3
Mining	-6.2	8.2	5.5	0.6	11.0	6.8	5.5	9.0	4.0	3.8	0.2	0.9	5.2
Manufacturing	-10.9	11.9	6.1	1.4	7.1	10.7	8.2	5.2	5.9	6.2	3.9	-6.1	13.9
Construction	-38.3	-6.8	-9.2	0.2	5.4	2.8	7.2	5.7	4.6	2.5	-5.3	0.4	6.84
Electricity	-0.7	3.1	9.8	6.5	6.0	4.6	6.4	5.3	4.7	5.1	4.0	0.9	10.1
Transportation	-9.1	6.2	7.5	6.8	6.8	2.9	7.5	4.8	6.2	6.0	-0.5	-3.8	4.0
Res. and Com.	-10.2	-1.0	2.7	1.2	4.0	3.6	6.6	5.3	4.0	4.7	1.9	0.9	4.8
Total	-10.5	4.4	4.8	2.2	5.3	7.1	6.3	4.6	5.1	5.0	2.5	-2.3	7.8

Source : Office of the National Economic and Social Development Board (NESDB)

Table 7.1-2 Population

Unit : Persons

Year	Population	Growth (%)
1986	52,511,000	1.8
1987	53,427,000	1.7
1988	54,326,000	1.7
1989	55,214,000	1.6
1990	55,839,000	1.1
1991	56,574,000	1.3
1992	57,294,000	1.3
1993	58,010,000	1.2
1994	58,713,000	1.2
1995	59,401,000	1.2
1996	60,003,000	1.0
1997	60,602,000	1.0
1998	61,201,000	1.0
1999	61,806,000	1.0
2000	62,236,000	0.7
2001	62,836,000	1.0
2002	63,419,000	0.9
2003	63,982,000	0.9
2004	64,531,000	0.9
2005	65,099,000	0.9
2006	65,574,000	0.7
2007	66,041,000	0.7
2008	66,482,000	0.7
2009	66,903,000	0.6
2010	67,313,000	0.6

Source : Office of the National Economic and Social Development Board (NESDB)

Table 7.1-3 Industrial Index

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Jan	96.6	101.9	103.8	125.0	138.8	150.6	157.5	167.2	188.3	140.4	182.2
Feb	95.6	99.7	102.7	119.4	139.2	141.9	161.2	163.3	186.0	139.2	185.8
Mar	104.8	111.0	116.2	135.9	145.9	166.7	178.6	180.7	200.5	155.1	214.7
Apr	87.5	90.3	105.0	119.1	128.2	141.0	148.2	151.1	169.5	140.1	179.8
May	98.5	104.8	117.0	125.7	141.2	155.7	170.6	172.7	189.8	156.0	190.2
Jun	101.1	105.0	114.7	127.6	143.5	161.7	165.7	172.3	189.1	166.1	199.4
Jul	97.0	102.3	116.4	129.3	141.1	156.0	162.9	173.1	191.3	165.6	193.8
Aug	100.2	104.1	121.0	124.8	138.3	160.7	171.3	180.3	183.8	169.3	187.7
Sep	104.0	103.5	120.1	134.8	145.2	164.1	172.1	184.3	186.6	185.2	201.4
Oct	103.9	108.4	124.7	137.7	152.7	162.5	170.3	186.5	183.9	183.0	196.1
Nov	107.0	105.6	124.4	132.0	153.1	162.6	167.5	186.8	168.3	180.8	195.2
Dec	104.0	101.8	116.3	141.9	155.2	158.7	164.8	184.9	146.9	192.1	191.8
Total	100.0	103.2	115.2	129.4	143.5	156.8	165.9	175.3	182.0	164.4	193.2

Source : The Office of Industrial Economics

Table 7.1-4 Industrial Capacity Utilization Ratios

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Jan	56.1	57.8	56.6	64.0	66.1	68.4	66.9	65.1	68.2	51.7	60.0
Feb	55.5	55.9	56.0	60.7	66.1	64.4	66.6	62.5	66.0	50.0	60.3
Mar	61.1	62.3	62.9	68.5	68.3	71.6	73.1	68.7	68.3	54.7	68.2
Apr	52.2	51.8	58.1	61.2	61.7	63.6	63.6	60.4	60.9	51.0	57.9
May	59.1	59.8	64.5	64.6	67.3	68.7	71.1	67.5	66.0	55.0	63.9
Jun	59.4	59.6	62.3	65.7	68.0	69.4	68.7	66.6	64.4	55.6	65.2
Jul	57.9	58.3	63.7	64.9	67.3	68.5	66.7	66.3	65.2	56.8	64.5
Aug	59.3	59.5	65.7	63.1	65.9	69.1	68.9	66.9	61.8	56.7	63.6
Sep	60.7	59.4	64.4	67.0	68.0	69.2	68.3	67.4	61.1	59.8	64.4
Oct	61.0	62.0	66.1	68.7	71.0	68.8	68.3	68.0	60.8	60.5	63.9
Nov	62.3	60.0	66.4	65.1	70.6	68.3	66.7	68.0	55.8	60.3	63.6
Dec	60.2	58.0	62.1	69.0	70.1	66.5	64.2	66.0	53.0	60.8	62.4
Total	58.7	58.7	62.4	65.2	67.5	68.0	67.7	66.1	62.6	56.1	63.2

Source : The Office of Industrial Economics

Table 7.1-5 Sale of Vehicles

Year	Sale of Vehicles (Unit)				Growth Rate (%)			
	Passenger	Commercial	Motorcycle	Total	Passenger	Commercial	Motorcycle	Total
1986	21,950	56,531	249,752	328,233	-0.9	-11.6	0.7	-1.8
1987	26,909	74,451	310,579	411,939	22.6	31.7	24.4	25.5
1988	39,232	107,763	494,586	641,581	45.8	44.7	59.3	55.8
1989	47,705	160,436	588,278	796,419	21.6	48.9	18.9	24.1
1990	65,813	238,297	732,848	1,036,958	38.0	48.5	24.6	30.2
1991	66,778	202,052	649,727	918,557	1.5	-15.2	-11.3	-11.4
1992	121,453	241,583	868,157	1,231,193	81.9	19.6	33.6	34.0
1993	172,452	282,548	1,115,946	1,570,946	42.0	17.0	28.5	27.6
1994	154,500	331,345	1,333,041	1,818,886	-10.4	17.3	19.5	15.8
1995	158,701	409,915	1,503,872	2,072,488	2.7	23.7	12.8	13.9
1996	173,606	415,262	1,242,551	1,831,419	9.4	1.3	-17.4	-11.6
1997	132,070	231,198	927,365	1,290,633	-23.9	-44.3	-25.4	-29.5
1998	46,399	97,844	490,829	635,072	-64.9	-57.7	-47.1	-50.8
1999	66,851	151,508	593,676	812,035	44.1	54.9	21.0	27.9
2000	83,127	179,126	796,292	1,058,545	24.4	18.2	34.1	30.4
2001	104,559	192,577	926,460	1,223,596	25.8	7.5	16.4	15.6
2002	126,330	283,073	1,317,000	1,726,403	20.8	47.0	42.2	41.1
2003	179,418	354,037	1,687,000	2,220,455	42.0	25.1	28.1	28.6
2004	209,114	416,764	1,951,000	2,576,878	16.6	17.7	15.7	16.1
2005	185,761	517,677	2,053,000	2,756,438	-11.2	24.2	5.2	7.0
2006	191,405	490,603	1,921,000	2,603,008	3.0	-5.2	-6.4	-5.6
2007	169,559	461,692	1,558,000	2,189,251	-11.4	-5.9	-18.9	-15.9
2008	225,751	388,333	1,749,000	2,363,084	33.1	-15.9	12.3	7.9
2009	235,169	313,703	1,519,000	2,067,872	4.2	-19.2	-13.2	-12.5
2010	338,018	414,866	1,857,000	2,609,884	43.7	32.3	22.3	26.2

Source : Bank of Thailand (BOT) and The Office of Industrial Economics (OIE)
 Compiled by : Energy Policy and Planning Office (EPPO)

Table 7.1-6 GDP, Energy, Import and Export of Goods

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
GDP at Current Prices (Billion Bahts)	1,133.4	1,299.9	1,559.8	1,857.0	2,183.5	2,506.6	2,830.9	3,165.2	3,629.3	4,186.2	4,611.0	4,732.6	4,626.4
GDP at 1988 Prices (Billion Bahts)	1,257.2	1,376.8	1,559.8	1,750.0	1,945.4	2,111.9	2,282.6	2,470.9	2,693.0	2,941.7	3,115.3	3,072.6	2,749.7
Export (Billion Bahts)	233.4	299.9	403.6	516.3	589.8	725.6	824.6	935.9	1,137.6	1,406.3	1,412.1	1,806.7	2,248.3
Import (Billion Bahts)	241.4	334.2	513.1	662.7	844.4	958.8	1,033.2	1,166.6	1,369.1	1,763.6	1,832.8	1,924.3	1,774.1
Consumer Goods	18.2	25.1	38.6	53.4	71.7	82.8	103.7	114.4	144.8	133.3	136.6	151.0	145.7
Raw Materials and Intermediate Goods	85.9	119.0	182.7	237.6	285.0	329.6	331.3	349.4	394.6	767.2	763.3	816.0	870.6
Capital Goods	94.6	131.0	201.1	242.3	327.7	385.5	426.0	501.1	613.8	583.5	601.7	661.8	548.8
Other Imports	42.7	59.1	90.7	129.4	160.0	161.0	172.2	201.7	215.9	279.6	331.3	295.4	209.0
Energy	29.4	40.7	37.6	55.8	81.7	78.6	81.7	87.3	87.2	108.4	159.2	187.0	148.7
Crude	21.4	26.8	21.4	32.6	42.8	39.9	48.6	51.0	55.4	72.1	121.9	166.5	137.1
Petroleum Products	7.7	13.4	15.6	22.3	38.2	38.0	32.4	35.2	30.1	34.1	33.3	15.9	7.0
Natural Gas													
Coal	0.4	0.4	0.5	0.9	0.6	0.7	0.6	1.0	1.7	2.2	4.0	3.8	2.1
Electricity												0.7	2.5
Others	13.24251264	18.3475622	53.1171	73.63742	78.36308	82.39511	90.54028	114.4	128.7	171.2	172.1	108.4	60.3
Net Trade (Exports - Imports) (Billion Bahts)	-8.0	-34.4	-109.5	-146.4	-254.6	-233.2	-208.6	-230.7	-231.5	-357.3	-420.7	-117.6	474.3
Final Energy Consumption (Billion Bahts)	79.0	84.3	140.3	163.8	238.3	279.3	323.8	357.5	390.3	455.0	530.4	580.8	556.7
Petroleum	78.4	83.9	94.1	109.9	132.0	161.6	171.9	188.7	199.0	233.0	280.4	318.7	306.8
Electricity			45.5	52.7	62.5	73.2	87.4	98.3	111.6	136.3	153.5	162.3	175.7
Natural Gas	0.3	0.1	0.3	0.3	0.6	0.8	1.2	1.5	2.1	3.1	3.4	4.7	4.6
Coal/Lignite	0.3	0.3	0.4	0.9	2.1	2.5	2.8	3.6	4.8	5.8	7.5	7.8	6.1
Renewable Energy					41.2	41.1	60.5	65.3	72.7	76.8	85.5	87.3	63.6
Final Energy Consumption (ktoe)	19,634.0	21,599.0	23,746.0	27,863.0	30,668.0	32,559.0	35,332.0	36,992.3	40,359.6	44,894.5	48,754.9	50,122.0	45,467.0
Petroleum	10,063.0	11,302.0	12,729.0	15,026.0	16,742.0	17,471.0	19,053.0	21,128.0	23,337.0	26,134.0	28,381.0	28,983.0	26,215.0
Electricity	1,878.0	2,121.0	2,395.0	2,793.0	3,255.0	3,770.0	4,204.0	4,706.0	5,329.0	6,017.0	6,678.0	7,101.0	7,036.0
Natural Gas	7.0	16.0	43.0	98.0	259.0	338.0	446.0	507.0	599.0	803.0	853.0	1,047.0	978.0
Coal/Lignite	488.0	698.0	853.0	1,142.0	1,454.0	1,630.0	1,811.0	2,598.0	3,284.0	3,814.0	4,633.0	4,492.0	3,353.0
Renewable Energy	7,198.0	7,462.0	7,726.0	8,804.0	8,958.0	9,350.0	9,818.0	8,053.3	7,810.6	8,126.5	8,209.9	8,499.0	7,885.0

Analysis

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Growth Rate (%)													
GDP (Constant Prices)	5.5	9.5	13.3	12.2	11.2	8.6	8.1	8.3	9.0	9.2	5.9	-1.4	-10.5
Final Energy Consumption : FEC	6.5	10.0	9.9	17.3	10.1	6.2	8.5	4.7	9.1	11.2	8.6	2.8	-9.3
FEC / GDP (toe / M.Bahts)	15.6	15.7	15.2	15.9	15.8	15.4	15.5	15.0	15.0	15.3	15.7	16.3	16.5
Ratios (%)													
FEC Value / GDP at Current Market Prices	7.0	6.5	9.0	8.8	10.9	11.1	11.4	11.3	10.8	10.9	11.5	12.3	12.0
Value of Imported Energy / GDP at Current Market Prices	2.6	3.1	2.4	3.0	3.7	3.1	2.9	2.8	2.4	2.6	3.5	4.0	3.2
Value of Imported Energy / Total Import	12.2	12.2	7.3	8.4	9.7	8.2	7.9	7.5	6.4	6.1	8.7	9.7	8.4
Value of Imported Petroleum and Natural Gas / Total Import	12.0	12.1	7.2	8.3	9.6	8.1	7.8	7.4	6.2	6.0	8.5	9.5	8.1

Source: NESDB, BOT, EPP0

Table 7.1-6 GDP, Energy, Import and Export of Goods (Cont.)

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
GDP at Current Prices (Billion Bahts)	4,637.1	4,922.7	5,133.5	5,450.6	5,917.4	6,489.5	7,092.9	7,844.9	8,525.2	9,080.5	9,041.6	10,104.8
GDP at 1988 Prices (Billion Bahts)	2,872.0	3,008.4	3,073.6	3,237.0	3,468.2	3,688.2	3,858.0	4,054.5	4,259.0	4,364.8	4,263.1	4,596.1
Export (Billion Bahts)	2,215.2	2,773.8	2,884.7	2,923.9	3,325.6	3,873.7	4,438.7	4,937.4	5,302.1	5,851.4	5,194.6	6,176.4
Import (Billion Bahts)	1,907.4	2,494.1	2,752.3	2,774.8	3,138.8	3,801.1	4,754.0	4,942.9	4,870.2	5,962.5	4,600.5	5,839.4
Consumer Goods	157.5	205.7	236.7	247.9	264.7	301.3	337.2	370.6	382.2	460.0	442.6	519.2
Raw Materials and Intermediate Goods	932.6	1,183.1	1,199.3	1,236.3	1,380.2	1,690.7	1,985.6	2,003.2	2,089.8	2,442.6	1,773.9	2,338.9
Capital Goods	538.5	679.5	837.1	810.1	916.3	1,039.5	1,288.0	1,326.9	1,246.0	1,430.9	1,231.2	1,453.6
Other Imports	278.8	425.8	479.2	480.6	577.6	769.5	1,143.2	1,242.2	1,152.2	1,629.0	1,152.9	1,527.7
Energy	189.9	340.2	355.9	360.2	433.3	592.1	786.0	921.2	880.1	1,160.9	760.9	911.2
Crude	169.6	285.9	284.4	287.0	346.1	486.6	644.9	753.8	715.8	1,002.7	623.0	751.5
Petroleum Products	12.8	36.8	28.8	25.8	31.0	41.5	55.7	62.4	48.3	26.7	13.1	28.0
Natural Gas		7.8	30.6	35.1	42.6	46.1	62.8	77.8	78.9	90.5	84.2	84.5
Coal	4.0	5.1	7.5	7.9	9.4	12.3	15.4	18.9	29.7	36.5	36.9	39.4
Electricity	3.4	4.7	4.7	4.5	4.2	5.7	7.1	8.3	7.4	4.5	3.6	8.0
Others	88.8	85.6	123.3	120.4	144.3	177.4	357.3	321.1	272.2	468.1	392.0	616.5
Net Trade (Exports - Imports) (Billion Bahts)	307.8	279.7	132.4	149.1	186.9	72.6	-315.3	-5.6	431.9	-111.1	594.0	337.0
Final Energy Consumption (Billion Bahts)	555.6	689.9	753.0	789.6	882.8	1,021.9	1,238.9	1,444.6	1,506.4	1,670.7	1,577.7	1,801.9
Petroleum	309.7	407.9	430.5	451.6	515.3	605.4	774.4	915.5	955.4	1,089.7	955.7	1,102.0
Electricity	168.1	199.3	233.0	245.9	266.1	300.6	328.2	385.1	390.7	394.5	429.6	472.7
Natural Gas	5.9	10.3	11.4	13.4	16.4	16.4	22.3	28.9	35.1	53.9	49.3	68.7
Coal/Lignite	6.5	5.4	7.9	8.8	9.9	13.3	18.4	18.0	23.1	28.6	27.8	29.1
Renewable Energy	65.2	67.0	70.3	69.9	75.1	86.2	95.5	97.1	102.1	104.0	115.3	129.4
Final Energy Consumption (ktoe)	47,169.0	47,895.0	49,291.0	52,958.0	56,294.0	61,671.0	63,061.0	62,904.0	65,950.0	67,193.0	69,020.0	72,894.0
Petroleum	26,845.0	26,716.0	27,290.0	28,898.0	30,533.0	33,093.0	32,621.0	31,823.0	32,534.0	31,471.0	31,959.0	32,419.0
Electricity	7,145.0	7,704.0	8,183.0	8,741.0	9,345.0	10,095.0	10,664.0	11,145.0	11,649.0	11,833.0	11,836.0	13,062.0
Natural Gas	1,282.0	1,818.0	1,959.0	2,133.0	2,303.0	2,713.0	2,763.0	2,959.0	3,683.0	4,361.0	5,267.0	6,152.0
Coal/Lignite	3,575.0	3,058.0	3,416.0	4,143.0	4,362.0	5,254.0	6,189.0	5,984.0	6,439.0	7,283.0	7,503.0	7,844.0
Renewable Energy	8,322.0	8,599.0	8,443.0	9,043.0	9,751.0	10,516.0	10,824.0	10,993.0	11,645.0	12,245.0	12,455.0	13,417.0

Analysis

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Growth Rate (%)												
GDP (Constant Prices)	4.4	4.7	2.2	5.3	7.1	6.3	4.6	5.1	5.0	2.5	-2.3	7.8
Final Energy Consumption : FEC	3.7	1.5	2.9	7.4	6.3	9.6	2.3	-0.2	4.8	1.9	2.7	5.6
FEC / GDP (toe / MBahts)	16.4	15.9	16.0	16.4	16.2	16.7	16.3	15.5	15.5	15.4	16.2	15.9
Ratios (%)												
FEC Value / GDP at Current Market Prices	12.0	14.0	14.7	14.5	14.9	15.7	17.5	18.4	17.7	18.4	17.4	17.8
Value of Imported Energy / GDP at Current Market Prices	4.1	6.9	6.9	6.6	7.3	9.1	11.1	11.7	10.3	12.8	8.4	9.0
Value of Imported Energy / Total Import	10.0	13.6	12.9	13.0	13.8	15.6	16.5	18.6	18.1	19.5	16.5	15.6
Value of Imported Petroleum and Natural Gas / Total Import	9.6	13.3	12.5	12.5	13.4	15.1	16.1	18.1	17.3	18.8	15.7	14.8

Source: NESDB, BOT, EPPO

Table 7.2-1 Final Energy Consumption per Capita

	1986	1987	1988	1989	1990	1991	1992	1993
GDP at Current Prices (Billion Bahts)	1,133.4	1,299.9	1,559.8	1,857.0	2,183.5	2,506.6	2,830.9	3,165.2
GDP at 1988 Prices (Billion Bahts)	1,257.2	1,376.8	1,559.8	1,750.0	1,945.4	2,111.9	2,282.6	2,470.9
Population (Million Persons)	52.5	53.4	54.3	55.2	55.8	56.6	57.3	58.0
Electricity Consumption (GWh)	22,034.4	24,894.2	28,110.4	32,772.2	38,203.0	44,238.9	49,331.2	55,231.3
Export (Billion Bahts)	233.4	299.9	403.6	516.3	589.8	725.6	824.6	935.9
Import (Billion Bahts)	241.4	334.2	513.1	662.7	844.4	958.8	1,033.2	1,166.6
Goods and Services	211.9	293.5	475.5	606.9	762.8	880.3	951.6	1,079.3
Energy	29.4	40.7	37.6	55.8	81.7	78.6	81.7	87.3
Crude	21.4	26.8	21.4	32.6	42.8	39.9	48.6	51.0
Petroleum Products	7.7	13.4	15.6	22.3	38.2	38.0	32.4	35.2
Natural Gas								
Coal	0.4	0.4	0.5	0.9	0.6	0.7	0.6	1.0
Electricity								
Final Energy Consumption (Billion Bahts)	79.0	84.3	140.3	163.8	238.3	279.3	323.8	357.5
Petroleum	78.4	83.9	94.1	109.9	132.0	161.6	171.9	188.7
Electricity			45.5	52.7	62.5	73.2	87.4	98.3
Natural Gas	0.3	0.1	0.3	0.3	0.6	0.8	1.2	1.5
Coal/Lignite	0.3	0.3	0.4	0.9	2.1	2.5	2.8	3.6
Renewable Energy					41.2	41.1	60.5	65.3
Final Energy Consumption (ktoe)	19,634.0	21,599.0	23,746.0	27,863.0	30,668.0	32,559.0	35,332.0	36,992.3
Petroleum	10,063.0	11,302.0	12,729.0	15,026.0	16,742.0	17,471.0	19,053.0	21,128.0
Electricity	1,878.0	2,121.0	2,395.0	2,793.0	3,255.0	3,770.0	4,204.0	4,706.0
Natural Gas	7.0	16.0	43.0	98.0	259.0	338.0	446.0	507.0
Coal/Lignite	488.0	698.0	853.0	1,142.0	1,454.0	1,630.0	1,811.0	2,598.0
Renewable Energy	7,198.0	7,462.0	7,726.0	8,804.0	8,958.0	9,350.0	9,818.0	8,053.3

Analysis

	1986	1987	1988	1989	1990	1991	1992	1993
Growth Rate (%)								
GDP (Constant Prices)	5.5	9.5	13.3	12.2	11.2	8.6	8.1	8.3
Final Energy Consumption : FEC	6.5	10.0	9.9	17.3	10.1	6.2	8.5	4.7
FEC / GDP (toe / M.Bahts)	15.6	15.7	15.2	15.9	15.8	15.4	15.5	15.0
Ratios (%)								
FEC / Capita (toe/Person)	0.37	0.40	0.44	0.50	0.55	0.58	0.62	0.64
Electricity / Capita (kWh/Person)	419.6	465.9	517.4	593.5	684.2	782.0	861.0	952.1
FEC Value / GDP at Current Market Prices	7.0	6.5	9.0	8.8	10.9	11.1	11.4	11.3
Value of Imported Energy / GDP at Current Market Prices	2.6	3.1	2.4	3.0	3.7	3.1	2.9	2.8
Value of Imported Energy / Total Import	12.2	12.2	7.3	8.4	9.7	8.2	7.9	7.5
Value of Imported Petroleum / Total Import	12.0	12.1	7.2	8.3	9.6	8.1	7.8	7.4

Source : NESDB, BOT, EPPO

Table 7.2-1 Final Energy Consumption per Capita (Cont.)

	1994	1995	1996	1997	1998	1999	2000	2001
GDP at Current Prices (Billion Bahts)	3,629.3	4,186.2	4,611.0	4,732.6	4,626.4	4,637.1	4,922.7	5,133.5
GDP at 1988 Prices (Billion Bahts)	2,693.0	2,941.7	3,115.3	3,072.6	2,749.7	2,872.0	3,008.4	3,073.6
Population (Million Persons)	58.7	59.4	60.0	60.6	61.2	61.8	62.2	62.8
Electricity Consumption (GWh)	62,558.0	70,870.3	77,083.0	81,998.0	79,899.6	80,985.5	87,747.1	93,020.7
Export (Billion Bahts)	1,137.6	1,406.3	1,412.1	1,806.7	2,248.3	2,215.2	2,773.8	2,884.7
Import (Billion Bahts)	1,369.1	1,763.6	1,832.8	1,924.3	1,774.1	1,907.4	2,494.1	2,752.3
Goods and Services	1,281.9	1,655.2	1,673.6	1,737.3	1,625.4	1,717.5	2,153.9	2,396.4
Energy	87.2	108.4	159.2	187.0	148.7	189.9	340.2	355.9
Crude	55.4	72.1	121.9	166.5	137.1	169.6	285.9	284.4
Petroleum Products	30.1	34.1	33.3	15.9	7.0	12.8	36.8	28.8
Natural Gas							7.8	30.6
Coal	1.7	2.2	4.0	3.8	2.1	4.0	5.1	7.5
Electricity				0.7	2.5	3.4	4.7	4.7
Final Energy Consumption (Billion Bahts)	390.3	455.0	530.4	580.8	556.7	555.6	689.9	753.0
Petroleum	199.0	233.0	280.4	318.7	306.8	309.7	407.9	430.5
Electricity	111.6	136.3	153.5	162.3	175.7	168.1	199.3	233.0
Natural Gas	2.1	3.1	3.4	4.7	4.6	5.9	10.3	11.4
Coal/Lignite	4.8	5.8	7.5	7.8	6.1	6.5	5.4	7.9
Renewable Energy	72.7	76.8	85.5	87.3	63.6	65.2	67.0	70.3
Final Energy Consumption (ktoe)	40,359.6	44,894.5	48,754.9	50,122.0	45,467.0	47,169.0	47,895.0	49,291.0
Petroleum	23,337.0	26,134.0	28,381.0	28,983.0	26,215.0	26,845.0	26,716.0	27,290.0
Electricity	5,329.0	6,017.0	6,678.0	7,101.0	7,036.0	7,145.0	7,704.0	8,183.0
Natural Gas	599.0	803.0	853.0	1,047.0	978.0	1,282.0	1,818.0	1,959.0
Coal/Lignite	3,284.0	3,814.0	4,633.0	4,492.0	3,353.0	3,575.0	3,058.0	3,416.0
Renewable Energy	7,810.6	8,126.5	8,209.9	8,499.0	7,885.0	8,322.0	8,599.0	8,443.0

Analysis

	1994	1995	1996	1997	1998	1999	2000	2001
Growth Rate (%)								
GDP (Constant Prices)	9.0	9.2	5.9	-1.4	-10.5	4.4	4.8	2.2
Final Energy Consumption : FEC	9.1	11.2	8.6	2.8	-9.3	3.7	1.5	2.9
FEC / GDP (toe / M.Bahts)	15.0	15.3	15.6	16.3	16.5	16.4	15.9	16.0
Ratios (%)								
FEC / Capita (toe/Person)	0.69	0.76	0.81	0.83	0.74	0.76	0.77	0.78
Electricity / Capita (kWh/Person)	1,065.5	1,193.1	1,284.7	1,353.1	1,305.5	1,310.3	1,409.9	1,480.4
FEC Value / GDP at Current Market Prices	10.8	10.9	11.5	12.3	12.0	12.0	14.0	14.7
Value of Imported Energy / GDP at Current Market Prices	2.4	2.6	3.5	4.0	3.2	4.1	6.9	6.9
Value of Imported Energy / Total Import	6.4	6.1	8.7	9.7	8.4	10.0	13.6	12.9
Value of Imported Petroleum / Total Import	6.2	6.0	8.5	9.5	8.1	9.6	12.9	11.4

Source: NESDB, BOT, EPPO

Table 7.2-1 Final Energy Consumption per Capita (Cont.)

	2002	2003	2004	2005	2006	2007	2008	2009	2010
GDP at Current Prices (Billion Bahts)	5,450.6	5,917.4	6,489.5	7,092.9	7,844.9	8,525.2	9,080.5	9,041.6	10,104.8
GDP at 1988 Prices (Billion Bahts)	3,237.0	3,468.2	3,688.2	3,858.0	4,054.5	4,259.0	4,364.8	4,263.1	4,596.1
Population (Million Persons)	63.4	64.0	64.5	65.1	65.6	66.0	66.5	66.9	67.3
Electricity Consumption (GWh)	99,407.1	106,207.8	114,325.7	120,637.4	127,237.2	132,492.1	134,411.8	134,792.9	148,708.9
Export (Billion Bahts)	2,923.9	3,325.6	3,873.7	4,438.7	4,937.4	5,302.1	5,851.4	5,194.6	6,176.4
Import (Billion Bahts)	2,774.8	3,138.8	3,801.1	4,754.0	4,942.9	4,870.2	5,962.5	4,600.5	5,839.4
Goods and Services	2,414.7	2,705.5	3,208.9	3,968.0	4,021.8	3,990.1	4,801.6	3,839.7	4,928.1
Energy	360.2	433.3	592.1	786.0	921.2	880.1	1,160.9	760.9	911.2
Crude	287.0	346.1	486.6	644.9	753.8	715.8	1,002.7	623.0	751.5
Petroleum Products	25.8	31.0	41.5	55.7	62.4	48.3	26.7	13.1	28.0
Natural Gas	35.1	42.6	46.1	62.8	77.8	78.9	90.5	84.2	84.5
Coal	7.9	9.4	12.3	15.4	18.9	29.7	36.5	36.9	39.4
Electricity	4.5	4.2	5.7	7.1	8.3	7.4	4.5	3.6	8.0
Final Energy Consumption (Billion Bahts)	789.6	882.8	1,021.9	1,238.9	1,444.6	1,506.4	1,670.7	1,577.7	1,801.9
Petroleum	451.6	515.3	605.4	774.4	915.5	955.4	1,089.7	955.7	1,102.0
Electricity	245.9	266.1	300.6	328.2	385.1	390.7	394.5	429.6	472.7
Natural Gas	13.4	16.4	16.4	22.3	28.9	35.1	53.9	49.3	68.7
Coal/Lignite	8.8	9.9	13.3	18.4	18.0	23.1	28.6	27.8	29.1
Renewable Energy	69.9	75.1	86.2	95.5	97.1	102.1	104.0	115.3	129.4
Final Energy Consumption (ktoe)	52,958.0	56,294.0	61,671.0	63,061.0	62,904.0	65,950.0	67,193.0	69,020.0	72,894.0
Petroleum	28,898.0	30,533.0	33,093.0	32,621.0	31,823.0	32,534.0	31,471.0	31,959.0	32,419.0
Electricity	8,741.0	9,345.0	10,095.0	10,664.0	11,145.0	11,649.0	11,833.0	11,836.0	13,062.0
Natural Gas	2,133.0	2,303.0	2,713.0	2,763.0	2,959.0	3,683.0	4,361.0	5,267.0	6,152.0
Coal/Lignite	4,143.0	4,362.0	5,254.0	6,189.0	5,984.0	6,439.0	7,283.0	7,503.0	7,844.0
Renewable Energy	9,043.0	9,751.0	10,516.0	10,824.0	10,993.0	11,645.0	12,245.0	12,455.0	13,417.0

Analysis

	2002	2003	2004	2005	2006	2007	2008	2009	2010
Growth Rate (%)									
GDP (Constant Prices)	5.3	7.1	6.3	4.6	5.1	5.0	2.5	-2.3	7.8
Final Energy Consumption : FEC	7.4	6.3	9.6	2.3	-0.2	4.8	1.9	2.7	5.6
FEC / GDP (toe / M.Bahts)	16.4	16.2	16.7	16.3	15.5	15.5	15.4	16.2	15.9
Ratios (%)									
FEC / Capita (toe/Person)	0.84	0.88	0.96	0.97	1.0	1.0	1.0	1.0	1.1
Electricity / Capita (kWh/Person)	1,567.5	1,660.0	1,771.6	1,853.1	1,940.4	2,006.2	2,021.8	2,014.8	2,209.2
FEC Value / GDP at Current Market Prices	14.5	14.9	15.7	17.5	18.4	17.7	18.4	17.4	17.8
Value of Imported Energy / GDP at Current Market Prices	6.6	7.3	9.1	11.1	11.7	10.3	12.8	8.4	9.0
Value of Imported Energy / Total Import	13.0	13.8	15.6	16.5	18.6	18.1	19.5	16.5	15.6
Value of Imported Petroleum / Total Import	11.3	12.0	13.9	14.7	16.5	15.7	17.3	13.8	13.3

Source : NESDB, BOT, EPPO

Table 7.2-2 Electricity Consumption per Capita

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
GDP at Current Prices (Billion Bahts)	1,133.4	1,299.9	1,559.8	1,857.0	2,183.5	2,506.6	2,830.9	3,165.2	3,629.3	4,186.2	4,611.0	4,732.6	4,626.4
GDP at 1988 Prices (Billion Bahts)	1,257.2	1,376.8	1,559.8	1,750.0	1,945.4	2,111.9	2,282.6	2,470.9	2,693.0	2,941.7	3,115.3	3,072.6	2,749.7
Population (Million Persons)	52.5	53.4	54.3	55.2	55.8	56.6	57.3	58.0	58.7	59.4	60.0	60.6	61.2
Electricity Consumption (GWh)	22,034.4	24,894.2	28,110.4	32,772.2	38,203.0	44,238.9	49,331.2	55,231.3	62,558.0	70,870.3	77,083.0	81,998.0	79,899.6
Export (Billion Bahts)	233.4	299.9	403.6	516.3	589.8	725.6	824.6	935.9	1,137.6	1,406.3	1,412.1	1,806.7	2,248.3
Import (Billion Bahts)	241.4	334.2	513.1	662.7	844.4	958.8	1,033.2	1,166.6	1,369.1	1,763.6	1,832.8	1,924.3	1,774.1
Final Energy Consumption (Billion Bahts)	79.0	84.3	140.3	163.8	238.3	279.3	323.8	357.5	390.3	455.0	530.4	580.8	556.7
Final Energy Consumption (ktoe)	19,634.0	21,599.0	23,746.0	27,863.0	30,668.0	32,559.0	35,332.0	36,992.3	40,359.6	44,894.5	48,754.9	50,122.0	45,467.0

Analysis

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Growth Rate (%)													
GDP (Constant Prices)	5.5	9.5	13.3	12.2	11.2	8.6	8.1	8.3	9.0	9.2	5.9	-1.4	-10.5
Final Energy Consumption : FEC	6.5	10.0	9.9	17.3	10.1	6.2	8.5	4.7	9.1	11.2	8.6	2.8	-9.3
FEC / GDP (toe / M.Bahts)	15.6	15.7	15.2	15.9	15.8	15.4	15.5	15.0	15.0	15.3	15.6	16.3	16.5
Ratios (%)													
FEC / Capita (toe/Person)	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.7
Electricity / Capita (kWh/Person)	419.6	465.9	517.4	593.5	684.2	782.0	861.0	952.1	1,065.5	1,193	1,285	1,353	1,306
FEC Value / GDP at Current Market Prices	7.0	6.5	9.0	8.8	10.9	11.1	11.4	11.3	10.8	10.9	11.5	12.3	12.0
Value of Imported Energy / GDP at Current Market Prices	2.6	3.1	2.4	3.0	3.7	3.1	2.9	2.8	2.4	2.6	3.5	4.0	3.2
Value of Imported Energy / Total Import	12.2	12.2	7.3	8.4	9.7	8.2	7.9	7.5	6.4	6.1	8.7	9.7	8.4
Value of Imported Petroleum / Total Import	12.0	12.1	7.2	8.3	9.6	8.1	7.8	7.4	6.2	6.0	8.5	9.5	8.1

Source : NESDB, BOT, EPPO

Table 7.2-2 Electricity Consumption per Capita (Cont.)

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
GDP at Current Prices (Billion Bahts)	4,637.1	4,922.7	5,133.5	5,450.6	5,917.4	6,489.5	7,092.9	7,844.9	8,525.2	9,080.5	9,041.6	10,104.8
GDP at 1988 Prices (Billion Bahts)	2,872.0	3,008.4	3,073.6	3,237.0	3,468.2	3,688.2	3,858.0	4,054.5	4,259.0	4,364.8	4,263.1	4,596.1
Population (Million Persons)	61.8	62.2	62.8	63.4	64.0	64.5	65.1	65.6	66.0	66.5	66.9	67.3
Electricity Consumption (GWh)	80,985.5	87,747.1	93,020.7	99,407.1	106,207.8	114,325.7	120,637.4	127,237.2	132,492.1	134,411.8	134,792.9	148,708.9
Export (Billion Bahts)	2,215.2	2,773.8	2,884.7	2,923.9	3,325.6	3,873.7	4,438.7	4,937.4	5,302.1	5,851.4	5,194.6	6,176.4
Import (Billion Bahts)	1,907.4	2,494.1	2,752.3	2,774.8	3,138.8	3,801.1	4,754.0	4,942.9	4,870.2	5,962.5	4,600.5	5,839.4
Final Energy Consumption (Billion Bahts)	555.6	689.9	753.0	789.6	882.8	1,021.9	1,238.9	1,444.6	1,506.4	1,670.7	1,577.7	1,801.9
Final Energy Consumption (ktoe)	47,169.0	47,895.0	49,291.0	52,958.0	56,294.0	61,671.0	63,061.0	62,904.0	65,950.0	67,193.0	69,020.0	72,894.0

Analysis

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Growth Rate (%)												
GDP (Constant Prices)	4.4	4.8	2.2	5.3	7.1	6.3	4.6	5.1	5.0	2.5	-2.3	7.8
Final Energy Consumption : FEC	3.7	1.5	2.9	7.4	6.3	9.6	2.3	-0.2	4.8	1.9	2.7	5.6
FEC / GDP (toe / M.Bahts)	16.4	15.9	16.0	16.4	16.2	16.7	16.3	15.5	15.5	15.4	16.2	15.9
Ratios (%)												
FEC / Capita (toe/Person)	0.8	0.8	0.8	0.8	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.1
Electricity / Capita (kWh/Person)	1,310	1,410	1,480	1,567	1,660	1,772	1,853	1,940	2,006	2,022	2,015	2,209
FEC Value / GDP at Current Market Prices	12.0	14.0	14.7	14.5	14.9	15.7	17.5	18.4	17.7	18.4	17.4	17.8
Value of Imported Energy / GDP at Current Market Prices	4.1	6.9	6.9	6.6	7.3	9.1	11.1	11.7	10.3	12.8	8.4	9.0
Value of Imported Energy / Total Import	10.0	13.6	12.9	13.0	13.8	15.6	16.5	18.6	18.1	19.5	16.5	15.6
Value of Imported Petroleum / Total Import	9.6	12.9	11.4	11.3	12.0	13.9	14.7	16.5	15.7	17.3	13.8	13.3

Source : NESDB, BOT, EPPO



Statistics Energy of Thailand

● ● Chapter 8
PETROLEUM PRICES

● ● บทที่ 8
ราคาน้ำมันปิโตรเลียม



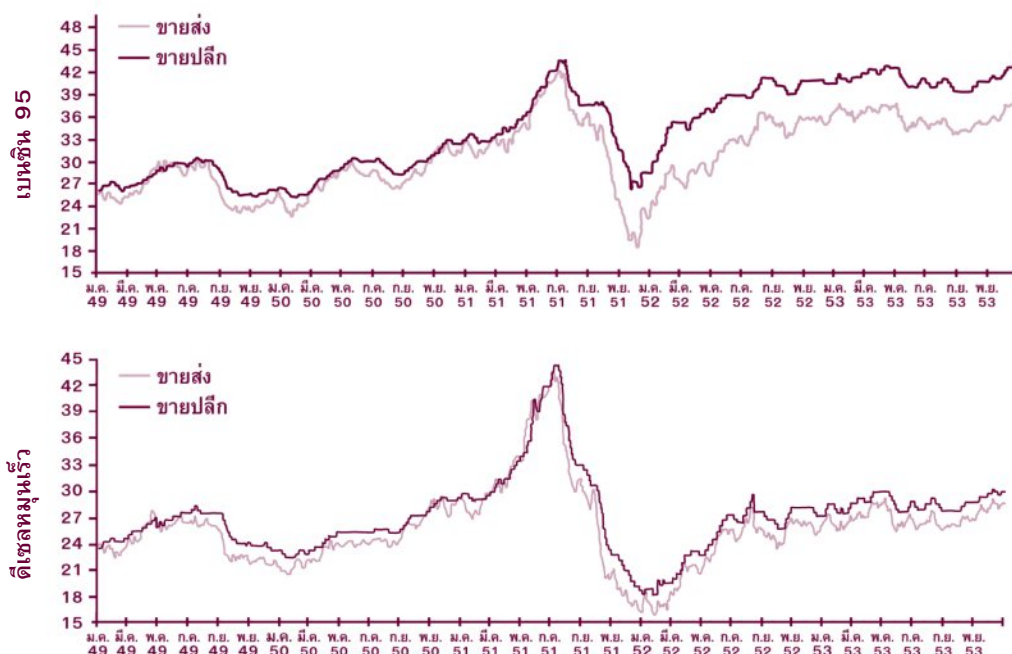
บทที่ 8 ราคาน้ำมันปิโตรเลียม

โครงสร้างราคาน้ำมันของไทย ราคาน้ำมันของไทยประกอบด้วย ราคาหน้าโรงกลั่น ราคาขายส่ง และราคาขายปลีก ในส่วนของราคาขายส่ง ประกอบด้วย ราคาหน้าโรงกลั่น รวมภาษีสรรพสามิต ภาษีเทศบาล เงินนำส่งเข้ากองทุนน้ำมันเชื้อเพลิง เงินนำส่งเข้ากองทุนเพื่อส่งเสริมการอนุรักษ์พลังงาน และภาษีมูลค่าเพิ่ม ส่วนราคาขายปลีก ประกอบด้วย ราคาขายส่ง รวมค่าการตลาด และภาษีมูลค่าเพิ่ม

การกำหนดราคาน้ำมันสำเร็จรูปของโรงกลั่นไทย การกำหนดราคาขายส่งน้ำมันสำเร็จรูป (Wholesale) ใช้หลักการเสมอภาคกับการนำเข้า (Import Parity Basis) และใช้ตลาดสิงคโปร์เป็นตลาดอ้างอิงการกำหนดราคาน้ำมันสำเร็จรูป เนื่องจากตลาดสิงคโปร์เป็นตลาดส่งออกที่ใหญ่ที่สุดในภูมิภาคเอเชียซึ่งอยู่ใกล้ไทยมากที่สุด จึงทำให้ต้นทุนการนำเข้าของไทยอยู่ในระดับต่ำสุด และมีปริมาณการซื้อขายในระดับสูงทำให้ยากต่อการปั่นราคา ส่งผลให้ราคามีความผันผวนน้อยกว่าตลาดอื่น ตลอดจนมีการเปลี่ยนแปลงราคาที่สอดคล้องกับตลาดอื่นทั่วโลก

ในการกำหนดราคา หากโรงกลั่นกำหนดราคาสูงกว่าราคานำเข้าจากสิงคโปร์ ผู้ค้าจะนำเข้าน้ำมันแทนการซื้อจากโรงกลั่นในประเทศ แต่หากกำหนดราคาต่ำกว่าราคานำเข้าจะทำให้โรงกลั่นได้รับผลตอบแทนต่ำกว่าที่ควร และจะไม่เกิดแรงจูงใจในการลงทุนธุรกิจการกลั่นในประเทศ นอกจากนี้จะทำให้โรงกลั่นมีความต้องการส่งออกมากกว่าขายในประเทศ

ราคาขายปลีกและขายส่งน้ำมันสำเร็จรูปในกรุงเทพมหานคร



Chapter 8

Petroleum Price

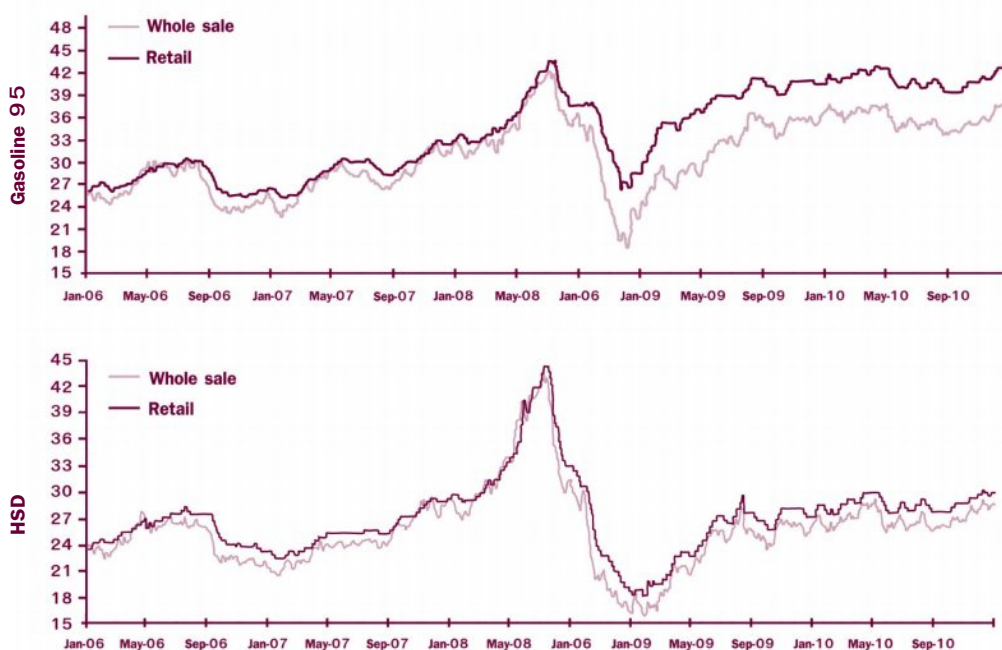


Oil Price Structures in Thailand. Oil prices in Thailand can be mainly divided into ex-refinery price, wholesale price and retail price. The wholesale price comprises the ex-refinery price plus the excise tax, municipality tax, contribution to the Oil Fund, contribution to the Energy Conservation Promotion Fund (ENCON Fund), and value added tax (VAT). The retail price comprises the wholesale price plus the marketing margin and VAT.

Determination of Petroleum Product Prices by Thai Refineries. The import parity basis is applied to the determination of wholesale prices of petroleum products. Singapore market is used as the reference market in determining prices of petroleum products because it is the largest export market in the Asian region which is nearest to Thailand and hence the lowest cost of imported oil for Thailand; moreover, the trading volume in the market is enormous, making it difficult to speculate in oil prices, and thus price volatility is less than other markets. Besides, the change in prices in Singapore market is in line with other markets worldwide.

In setting the prices, if the prices set by refineries are higher than import prices from Singapore, oil traders will import oil instead of buying it from domestic refineries. On the contrary, if the prices are set lower than import prices, the rate of return for domestic refineries will be lower than what it should be, making investment in oil refining business in Thailand unattractive. Besides, the refineries would then wish to export their products rather than selling them within the country.

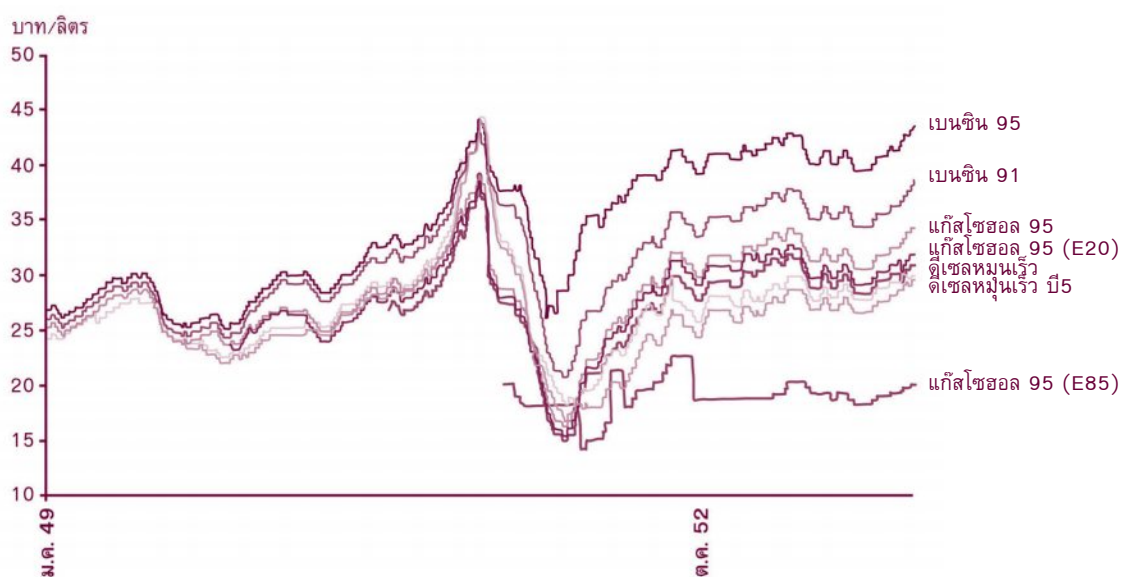
Retail and Wholesale Prices of Petroleum Products in Bangkok



การเปลี่ยนแปลงราคาน้ำมันขายปลีกของไทย ขึ้นลงตามการประกาศราคาหน้าโรงกลั่น โดยการกำหนดราคาน้ำมันของโรงกลั่นขึ้นอยู่กับ การเปลี่ยนแปลงของราคาน้ำมันสำเร็จรูปในตลาดสิงคโปร์ และอัตราแลกเปลี่ยน (หรือค่าเงินบาท) ซึ่งเป็นต้นทุนในการนำเข้าน้ำมันเชื้อเพลิง

ในช่วงก่อนยกเลิกการควบคุมราคาขายปลีก รัฐบาลได้ใช้ระบบกองทุนน้ำมันเชื้อเพลิงในการรักษา ระดับราคาขายส่งที่ออกจากโรงกลั่นและราคานำเข้าให้อยู่ในระดับคงที่ ส่งผลให้ราคาขายปลีกไม่ เปลี่ยนแปลง หลังจากมีการยกเลิกการควบคุมราคาแล้ว ราคาขายส่งได้มีการเปลี่ยนแปลงตามราคา หน้าโรงกลั่น โดยโรงกลั่นเป็นผู้กำหนดราคาซึ่งส่งผลให้ราคาขายปลีกมีการเปลี่ยนแปลงตามในที่สุด

ราคาขายปลีกน้ำมันสำเร็จรูปในกรุงเทพมหานคร



น้ำมันสำเร็จรูปที่ขายปลีกอยู่ในสถานบริการของประเทศไทย มีอยู่ 2 ชนิดหลักๆ ได้แก่ เบนซิน และดีเซล รัฐบาลไทยได้สนับสนุนให้มีการใช้พลังงานทดแทน โดยลดการจัดเก็บเงินเข้ากองทุนน้ำมันเชื้อเพลิง ในกลุ่มน้ำมันแก๊สโซฮอล์และไบโอดีเซล เพื่อเป็นการจูงใจให้ประชาชนหันมาใช้พลังงานทดแทนมากขึ้น มีผลให้เกิดส่วนต่างราคาขายปลีกเบนซินและแก๊สโซฮอล์แต่ละประเภท รวมถึงดีเซลหมุนเร็วและไบโอดีเซล

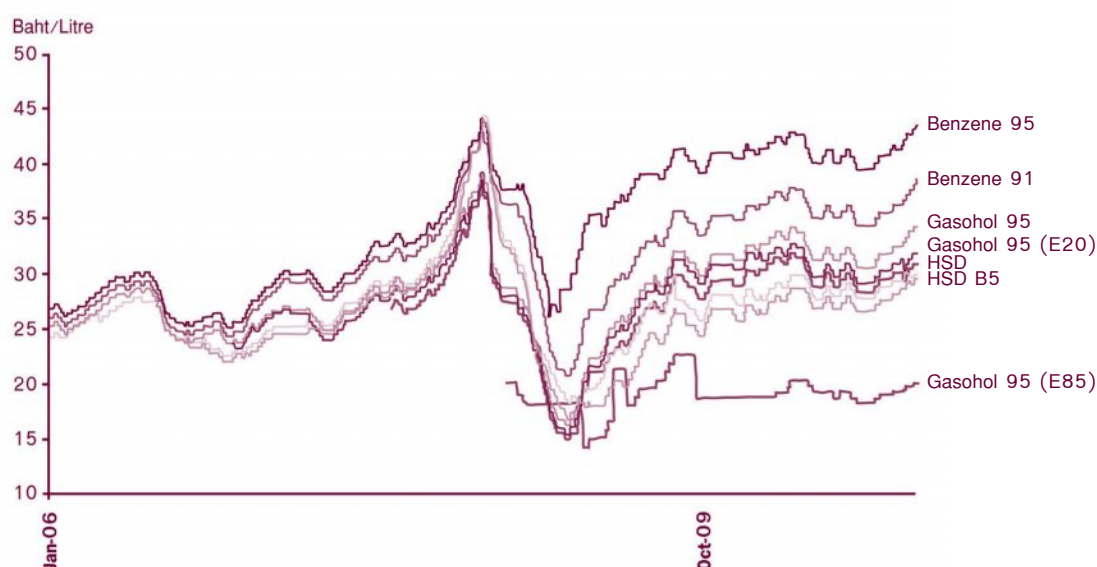
ในปี 2010 ราคาขายปลีกเฉลี่ยของน้ำมันชนิดต่างๆ เป็นดังนี้ ราคาเบนซิน 95 อยู่ที่ระดับ 41.26 บาทต่อลิตร เบนซิน 91 อยู่ที่ระดับ 36.10 บาทต่อลิตร แก๊สโซฮอล์ 95 E10 อยู่ที่ระดับ 32.35 บาทต่อลิตร แก๊สโซฮอล์ 95 E20 อยู่ที่ระดับ 29.96 บาทต่อลิตร แก๊สโซฮอล์ 95 E85 อยู่ที่ระดับ 19.21 บาทต่อลิตร และแก๊สโซฮอล์ 91 E10 อยู่ที่ระดับ 30.85 บาทต่อลิตร

ราคาขายปลีกเฉลี่ยของน้ำมันดีเซลหมุนเร็ว อยู่ที่ระดับ 28.69 บาทต่อลิตร น้ำมันไบโอดีเซล บี5 ราคาเฉลี่ยอยู่ที่ระดับ 27.55 บาทต่อลิตร

Adjustment of Retail Oil Prices in Thailand. Retail oil prices will increase or decrease in line with the ex-refinery price announcement. The determination of ex-refinery prices will, in turn, depend on the change in petroleum product prices in Singapore market and the rate of exchange (or the value of Thai Baht), which constitute the cost of petroleum product import.

Prior to the deregulation of retail oil prices, the government used the Oil Fund mechanism to stabilize the levels of wholesale prices (ex-refinery) and imported oil prices, and thus the retail prices remain unchanged. After the oil price deregulation, the wholesale prices will change in line with the ex-refinery prices set by the refineries, resulting in fluctuations in retail oil prices accordingly.

Retail Prices of Petroleum Products in Bangkok



Two main petroleum products being retailed at service stations in Thailand are gasoline and diesel. As the Thai government has encouraged the use of alternative energy by reducing the rates of contribution to the Oil Fund imposed on gasohol and biodiesel to induce greater use of alternative energy by the general public, there is significant difference between the retail price of each type of gasoline (with Octane 95/91) and that of its alternate gasohol, and so is the retail price difference between high speed diesel and biodiesel.

In 2010, the average retail price of each oil product was as follows:

Unit : Baht/litre

Product Type	Gasoline	Gasohol (E10)	Gasohol (E20)	Gasohol (E85)
Octane 95	41.26	32.35	29.96	19.21
Octane 91	36.10	30.85	–	–

The average retail price of high speed diesel was 28.69 Baht/litre, while that of biodiesel (B5) was 27.55 Baht/litre.

Table 8.1-1 Rates of Exchange in Bangkok

Unit : Baht

Year/ Month	Pound Sterling		U.S.Dollar		Singapore Dollar		Japanese Yen		EURO	
	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling
2006	69.32	70.15	37.74	38.03	23.64	24.03	0.32	0.33	47.24	47.87
Jan	69.48	70.31	39.43	39.72	24.04	24.43	0.34	0.35	47.66	48.29
Feb	68.45	69.25	39.21	39.50	23.96	24.35	0.33	0.34	46.74	47.37
Mar	67.53	68.34	38.79	39.08	23.81	24.20	0.33	0.33	46.50	47.12
Apr	66.62	67.42	37.80	38.09	23.50	23.89	0.32	0.33	46.25	46.83
May	70.50	71.36	37.82	38.11	23.87	24.26	0.34	0.34	48.15	48.79
Jun	70.24	71.08	38.15	38.45	23.89	24.29	0.33	0.34	48.22	48.86
Jul	69.55	70.38	37.81	38.10	23.76	24.16	0.33	0.33	47.84	48.47
Aug	70.69	71.50	37.44	37.73	23.65	24.05	0.32	0.33	47.84	48.47
Sep	70.15	70.99	37.24	37.53	23.49	23.88	0.32	0.32	47.32	47.96
Oct	69.49	70.32	37.15	37.44	23.42	23.82	0.31	0.32	46.75	47.37
Nov	69.33	70.17	36.35	36.65	23.25	23.65	0.31	0.31	46.69	47.32
Dec	69.79	70.72	35.61	35.94	23.02	23.44	0.30	0.31	46.89	47.57
2007	68.60	69.41	34.35	34.69	22.69	23.13	0.29	0.30	46.92	47.61
Jan	69.91	70.85	35.76	36.10	23.15	23.58	0.30	0.30	46.33	47.02
Feb	69.46	70.37	35.53	35.85	23.06	23.47	0.29	0.30	46.34	47.01
Mar	67.75	68.66	34.85	35.18	22.75	23.18	0.30	0.30	46.05	46.72
Apr	68.76	69.70	34.66	35.00	22.77	23.21	0.29	0.30	46.66	47.35
May	68.11	67.54	34.41	34.74	22.49	22.92	0.28	0.29	46.37	47.06
Jun	68.13	69.06	34.37	34.70	22.26	22.69	0.28	0.28	45.99	46.68
Jul	68.01	68.95	33.50	33.84	21.99	22.42	0.27	0.28	45.84	46.53
Aug	68.15	69.08	33.98	34.31	22.20	22.63	0.29	0.30	46.15	46.83
Sep	68.54	69.47	34.04	34.38	22.40	22.84	0.29	0.30	47.16	47.86
Oct	69.26	70.21	33.96	34.29	23.04	23.50	0.29	0.30	48.19	48.90
Nov	69.62	70.56	33.67	34.00	23.16	23.62	0.30	0.31	49.35	50.07
Dec	67.49	68.43	33.49	33.83	22.98	23.44	0.30	0.30	48.58	49.29
2008	61.15	62.05	33.14	33.49	23.32	23.79	0.32	0.45	48.56	49.30
Jan	64.78	65.70	32.98	33.31	22.92	23.39	0.30	0.31	48.38	49.11
Feb	63.54	64.45	32.40	32.74	22.84	23.31	0.30	1.84	47.65	48.37
Mar	62.40	63.31	31.24	31.58	22.43	22.90	0.31	0.31	48.35	49.08
Apr	62.04	62.94	31.37	31.71	22.89	23.36	0.30	0.31	49.35	50.08
May	62.54	63.44	31.89	32.23	23.23	23.70	0.30	0.31	49.53	50.27
Jun	64.69	65.62	32.98	33.32	23.99	24.48	0.31	0.31	51.20	51.95
Jul	66.04	66.98	33.28	33.62	24.36	24.86	0.31	0.32	52.36	53.12
Aug	63.49	64.39	33.63	33.97	23.87	24.34	0.31	0.31	50.32	51.04
Sep	61.19	62.08	34.07	34.41	23.74	24.20	0.32	0.32	48.91	49.63
Oct	57.93	58.84	34.20	34.55	23.08	23.54	0.34	0.35	45.53	46.26
Nov	53.32	54.14	34.86	35.22	23.02	23.48	0.36	0.37	44.21	44.94
Dec	51.87	52.75	34.80	35.16	23.46	23.93	0.38	0.39	46.97	47.75

Table 8.1-1 Rates of Exchange in Bangkok (Cont.)

Unit : Baht

Year/ Month	Pound Sterling		U.S.Dollar		Singapore Dollar		Japanese Yen		EURO	
	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling
2009	53.12	54.00	34.10	34.47	23.33	23.82	0.36	0.54	47.32	48.10
Jan	49.83	50.69	34.68	35.05	23.14	23.61	0.38	0.39	45.80	46.57
Feb	50.31	51.17	35.09	35.46	22.99	23.45	0.38	0.39	44.73	45.47
Mar	50.32	51.17	35.55	35.92	23.12	23.58	0.36	0.37	46.25	47.00
Apr	51.47	52.33	35.22	35.59	23.29	23.76	0.36	0.36	46.23	46.98
May	52.95	53.83	34.35	34.72	23.40	23.89	0.36	2.33	46.84	47.60
Jun	55.31	56.23	33.90	34.28	23.23	23.72	0.35	0.36	47.42	48.20
Jul	55.20	56.10	33.81	34.19	23.21	23.70	0.36	0.36	47.52	48.29
Aug	55.76	56.67	33.78	34.16	23.31	23.81	0.35	0.36	48.08	48.87
Sep	54.68	55.58	33.59	33.97	23.47	23.97	0.37	0.37	48.77	49.56
Oct	53.46	54.36	33.17	33.55	23.60	24.11	0.37	0.37	49.01	49.81
Nov	54.74	55.64	33.04	33.42	23.67	24.18	0.37	0.38	49.18	49.99
Dec	53.39	54.28	32.99	33.37	23.50	24.01	0.37	0.37	48.04	48.83
2010	48.52	49.38	31.49	31.87	22.97	23.48	0.36	0.37	41.68	42.43
Jan	52.90	53.79	32.80	33.16	23.37	23.87	0.36	0.37	47.07	47.86
Feb	51.36	52.24	32.91	33.29	23.18	23.68	0.36	0.37	44.93	45.70
Mar	48.42	49.28	32.27	32.65	22.93	23.44	0.35	0.36	43.69	44.45
Apr	48.95	49.81	32.05	32.42	23.07	23.58	0.34	0.35	42.83	43.58
May	46.95	47.82	32.15	32.54	22.95	23.46	0.35	0.36	40.20	40.94
Jun	47.38	48.23	32.23	32.61	22.93	23.41	0.35	0.36	39.25	39.97
Jul	48.88	49.73	32.09	32.47	23.17	23.68	0.36	0.37	40.88	41.62
Aug	49.24	50.10	31.51	31.89	23.13	23.65	0.37	0.38	40.58	41.31
Sep	47.48	48.34	30.60	30.98	22.78	23.31	0.36	0.37	39.81	40.55
Oct	46.99	47.86	29.73	30.11	22.67	23.20	0.36	0.37	41.16	41.91
Nov	47.23	48.09	29.65	30.02	22.73	23.26	0.36	0.37	40.46	41.20
Dec	46.45	47.30	29.88	30.26	22.72	23.26	0.36	0.36	39.32	40.05

Table 8.1-2Y Ex-Refinery Prices of Petroleum Products in Thailand

Year	Ex-Refinery Prices										
	ULG95	UGR91	Gasohol 95		Gasohol 91	Kerosene	HSD 0.035%S	HSD B5	LSD	FO 1 500 (2%S)	LPG (B/kg)
			(E10)	(E20)							
1996	4.33	3.79				4.79	4.70		4.32	2.83	5.95
1997	5.40	4.99				5.27	5.29		4.58	3.36	7.36
1998	5.12	4.48				4.60	4.53		4.12	3.14	6.15
1999	5.44	4.87				5.35	4.97		4.53	3.87	7.83
2000	8.64	8.07				8.91	8.63		8.20	6.39	11.96
2001	8.12	7.50				8.05	8.15		7.65	5.96	11.29
2002	7.98	7.44				7.68	7.84		7.41	6.35	9.90
2003	9.44	8.90				8.67	8.90		8.73	7.05	11.36
2004	12.35	11.81				12.06	12.16		11.82	7.62	12.32
2005	16.26	15.75				17.31	16.95		16.56	10.06	12.73
2006	17.84	17.39	18.68			19.51	18.92	17.32	18.45	12.67	11.96
2007	18.36	17.94	18.53		18.57	19.23	19.06	20.27	18.63	13.17	11.19
2008	21.73	21.31	21.62	21.42		25.68	25.60	25.86	25.00	16.91	10.99
2009	15.66	15.03	16.29	16.82	19.61	15.40	15.62	15.98	15.02	12.85	11.08
2010	18.11	17.64	18.82	19.44	22.60	18.33	18.69	19.01	17.98	14.94	10.69

Unit : Baht/Litre

Table 8.1-3Y Oil Fund Levied on Petroleum Products in Thailand

Year	Ex-Refinery Prices												Unit : Baht/Litre	
	ULG95	UGR91	Gasohol 95		Gasohol 91	Kerosene	HSD 0.05%\$	HSD B5 0.035%\$	HSD B5	LSD	FO 1500 (2%\$)	LPG (B/kg)		LPG (Car) (B/kg)
			(E10)	(E20)										
1996	0.11	0.11				0.03	0.16			0.12	0.03	-0.64	-0.64	
1997	0.08	0.08				0.06	0.07			0.04	0.03	-1.89	-1.89	
1998	0.16	0.16				0.10	0.15			0.13	0.06	0.40	0.40	
1999	0.09	0.09				0.10	0.10			0.08	0.06	-2.94	-2.94	
2000	0.34	0.22				0.10	0.11			0.11	0.06	-7.31	-7.31	
2001	0.50	0.30				0.10	0.50			0.50	0.06	-5.55	-5.55	
2002	0.50	0.30	0.27		0.27	0.10	0.50			0.50	0.06	-2.45	-2.45	
2003	0.49	0.30	0.27		0.27	0.10	0.44			0.50	0.06	-3.05	-3.05	
2004	-0.34	-0.59	0.24		0.27	0.10		-2.24		-2.27	0.06	-2.55	-2.55	
2005	1.28	1.03	0.13		0.16	0.10		-0.92		-1.02	0.06	-2.54	-2.54	
2006	2.70	2.50	0.84		0.84	0.10		1.47	0.41	1.47	0.06	-1.93	-1.93	
2007	3.67	3.37	0.85		0.62	0.10		1.39	0.60	1.39	0.06	-1.02	-1.02	
2008	3.78	3.31	0.77	-0.21	0.28	0.10		0.40	-0.68	0.31	0.06	0.30	0.30	
2009	6.94	5.31	1.78	-0.80	-7.88	0.10		0.78	-0.95	1.20	0.06	0.22	0.22	
2010	7.50	6.65	2.74	-0.41	-10.93	0.10		0.66	-0.65	1.20	0.06	0.61	0.61	

Table 8.1-4 Wholesale Prices of Petroleum Products at Refinery in Thailand

Unit : Baht/Litre

Products	1. Gasoline				2. Kero- sene	3. Diesel			4. Fuel Oil				5. LPG (B/kg (exclude vat))
	ULG95	UGR 91	Gasohol 95 (E10) (E20)	Gasohol 91		HSD	HSD B5	LSD	600 (2%)	1500 (2%)	2000	2500	
2006													
JAN													
WT.AVG	25.37	24.63			24.36	23.49		22.65	14.80	14.04	13.42	13.19	12.46
TRADER	25.37	24.63			24.36	23.52		22.65	14.80	13.98	13.42	13.19	12.46
COST													
FEB													
WT.AVG	24.82	24.10			23.77	23.08		22.20	15.23	14.63	14.14	13.85	12.46
TRADER	24.82	24.10			23.77	23.11		22.20	15.23	14.58	14.14	13.85	12.46
COST													
MAR													
WT.AVG	25.78	25.06			23.71	24.47		23.53	15.49	14.81	14.42	14.04	12.46
TRADER	25.78	25.06			23.71	24.49		23.53	15.49	14.76	14.42	14.04	12.46
COST													
APR													
WT.AVG	28.21	27.49			25.47	26.44		25.08	15.98	15.42	14.59	14.29	12.46
TRADER	28.20	27.48			25.47	26.42		25.08	15.98	15.35	14.59	14.29	12.46
COST													
MAY													
WT.AVG	29.62	28.91			25.66	26.02		24.43	16.03	15.24	14.60	14.33	12.46
TRADER	29.62	28.91			25.66	26.02		24.43	16.03	15.18	14.60	14.33	12.46
COST													
JUN													
WT.AVG	28.83	28.11			26.06	26.71		25.05	15.62	14.51	13.93	13.68	12.46
TRADER	28.83	28.12			26.06	26.70		25.05	15.62	14.46	13.93	13.68	12.46
COST													
JUL													
WT.AVG	29.35	28.64			26.22	26.57		25.02	16.26	15.17	14.48	14.21	12.46
TRADER	29.35	28.64			26.22	26.57		25.02	16.26	15.11	14.48	14.21	12.46
COST													
AUG													
WT.AVG	28.16	27.45			26.48	26.38		24.77	15.64	14.49	13.79	13.44	12.46
TRADER	28.16	27.46			26.48	26.38		24.77	15.64	14.44	13.79	13.44	12.46
COST													
SEP													
WT.AVG	24.21	23.51			24.24	23.81	23.99	22.31	13.78	12.72	12.05	11.86	12.46
TRADER	24.22	23.52			24.24	23.84	21.88	22.31	13.78	12.67	12.05	11.86	12.46
COST													
OCT													
WT.AVG	23.67	22.96			22.49	22.71	23.04	21.12	13.47	12.52	11.83	11.69	12.46
TRADER	23.67	22.97			22.49	22.71	21.77	21.12	13.47	12.47	11.83	11.69	12.46
COST													
NOV													
WT.AVG	23.99	23.31			21.93	22.31	22.72	20.77	12.64	11.70	11.10	10.93	12.46
TRADER	23.99	23.31			21.93	22.31	21.34	20.77	12.64	11.67	11.10	10.93	12.46
COST													
DEC													
WT.AVG	24.99	24.30			22.46	21.93	22.47	20.52	12.53	11.62	11.01	10.79	12.46
TRADER	24.99	24.29			22.43	21.93	20.96	20.52	12.53	11.58	11.01	10.79	12.46
COST													
2006 AVG													
WT.AVG	26.42	25.71			24.40	24.49	23.05	23.12	14.79	13.91	13.28	13.03	12.46
TRADER	26.42	25.71			24.40	24.50	21.49	23.12	14.79	13.85	13.28	13.03	12.46
COST													

Table 8.1-4 Wholesale Prices of Petroleum Products at Refinery in Thailand (cont.)

Unit : Baht/Litre

Products	1. Gasoline				2. Kero- sene	3. Diesel			4. Fuel Oil				5. LPG (B/kg) (exclude vat)
	ULG95	UGR 91	Gasohol 95 (E10) (E20)	Gasohol 91		HSD	HSD B5	LSD	600 (2% <i>s</i>)	1500 (2% <i>s</i>)	2000	2500	
2007													
JAN													
WT.AVG	23.58	22.89	21.66		20.80	21.15	21.61	19.60	12.32	11.50	10.81	10.70	12.46
TRADER	23.58	22.90	21.66		20.80	21.15	20.33	19.60	12.32	11.46	10.81	10.70	12.46
COST													
FEB													
WT.AVG	24.61	23.93	22.57	22.18	21.08	22.06	21.92	20.48	13.09	12.32	11.64	11.48	12.46
TRADER	24.61	23.92	22.57	22.18	21.08	22.05	21.19	20.48	13.09	12.27	11.64	11.48	12.46
COST													
MAR													
WT.AVG	26.62	25.95	22.50	22.12	21.59	22.47	22.21	20.89	13.43	12.61	11.93	11.77	12.46
TRADER	26.62	25.94	22.50	22.12	21.59	22.46	21.35	20.89	13.43	12.55	11.93	11.77	12.46
COST													
APR													
WT.AVG	28.13	27.46	24.98	24.80	22.88	23.97	23.38	22.41	14.74	13.89	13.24	13.04	12.46
TRADER	28.13	27.45	24.98	24.80	22.88	23.96	22.79	22.41	14.74	13.83	13.24	13.04	12.46
COST													
MAY													
WT.AVG	29.20	28.53	25.63	25.40	23.03	24.17	23.89	22.65	14.79	13.91	13.29	13.07	12.46
TRADER	29.20	28.53	25.63	25.40	23.03	24.17	23.14	22.65	14.79	13.86	13.29	13.07	12.46
COST													
JUN													
WT.AVG	28.31	27.64	24.70	24.43	23.37	24.19	23.89	22.64	15.15	14.31	13.63	13.43	12.46
TRADER	28.31	27.64	24.70	24.43	23.37	24.18	23.89	22.64	15.15	14.25	13.63	13.43	12.46
COST													
JUL													
WT.AVG	27.97	27.31	24.20	23.75	23.68	24.60	24.16	23.04	15.70	14.87	14.33	14.14	12.46
TRADER	27.97	27.32	24.20	23.75	23.68	24.59	24.36	23.04	15.70	14.81	14.33	14.14	12.46
COST													
AUG													
WT.AVG	26.72	25.99	22.92	22.10	23.26	24.22	23.99	22.67	15.57	14.76	14.26	14.05	12.46
TRADER	26.72	25.99	22.92	22.10	23.26	24.22	23.98	22.67	15.57	14.71	14.26	14.05	12.46
COST													
SEP													
WT.AVG	28.14	27.37	24.14	23.35	24.68	25.99	25.13	24.35	16.35	15.43	14.87	14.60	12.46
TRADER	28.14	27.36	24.14	23.35	24.68	25.97	25.59	24.35	16.35	15.36	14.87	14.60	12.46
COST													
OCT													
WT.AVG	29.55	28.77	25.01	24.26	26.07	26.99	26.01	25.35	18.05	17.24	16.52	16.27	12.46
TRADER	29.54	28.76	25.01	24.26	26.07	26.97	26.70	25.35	18.05	17.15	16.52	16.27	12.46
COST													
NOV													
WT.AVG	31.93	30.90	26.73	25.67	29.52	28.91	27.03	27.93	20.14	19.31	18.79	18.36	12.46
TRADER	31.93	30.89	26.73	25.67	29.52	28.89	28.42	27.93	20.14	19.23	18.79	18.36	12.46
COST													
DEC													
WT.AVG	31.47	30.46	26.32	25.22	28.50	28.41	27.32	27.66	19.40	18.47	17.85	17.59	12.46
TRADER	31.47	30.46	26.32	25.22	28.50	28.41	27.94	27.66	19.40	18.39	17.85	17.59	12.46
COST													
2007 AVG													
WT.AVG	28.02	27.27	24.28	23.93	24.04	24.76	24.21	23.30	15.73	14.89	14.26	14.04	12.46
TRADER	28.02	27.26	24.28	23.93	24.04	24.75	24.14	23.30	15.73	14.82	14.26	14.04	12.46
COST													

Table 8.1-4 Wholesale Prices of Petroleum Products at Refinery in Thailand (cont.)

Unit : Baht/Litre

Products	1. Gasoline				2. Kero- sene	3. Diesel			4. Fuel Oil				5. LPG (B/kg (exclude vat))	
	ULG95	UGR 91	Gasohol 95 (E10) (E20)			Gasohol 91	HSD	HSD B5	LSD	600 (2% ^s)	1500 (2% ^s)	2000		2500
2008														
JAN														
WT.AVG	31.61	30.54	26.94	26.00	26.24	27.63	28.05	26.90	27.34	19.09	18.07	17.46	17.48	13.59
TRADER	31.62	30.55	26.94	26.00	26.24	27.63	28.05	26.90	27.34	19.09	18.01	17.46	17.48	13.59
COST														
FEB														
WT.AVG	32.07	31.16	27.37	26.35	26.70	27.70	28.09	27.76	27.61	18.67	17.57	16.97	16.96	13.77
TRADER	32.06	31.15	27.37	26.35	26.70	27.70	28.10	27.76	27.61	18.67	17.49	16.97	16.96	13.77
COST														
MAR														
WT.AVG	32.42	31.58	27.67	26.64	27.11	30.20	28.14	29.51	30.03	19.34	18.06	16.98	17.30	13.69
TRADER	32.42	31.58	27.67	26.64	27.11	30.20	28.15	29.51	30.03	19.34	17.98	16.98	17.30	13.69
COST														
APR														
WT.AVG	34.30	33.40	29.39	28.19	28.72	33.18	32.66	30.25	32.85	21.07	19.73	18.80	18.61	13.69
TRADER	34.29	33.38	29.39	28.19	28.72	33.18	32.64	30.25	32.85	21.07	19.62	18.80	18.61	13.69
COST														
MAY														
WT.AVG	37.30	36.36	32.10	30.57	31.46	37.87	37.11	32.62	37.36	23.86	22.20	21.28	20.98	13.69
TRADER	37.28	36.34	32.10	30.57	31.46	37.87	37.09	32.62	37.36	23.86	22.08	21.28	20.98	13.69
COST														
JUN														
WT.AVG	40.51	39.51	34.99	33.13	34.34	40.48	40.28	37.55	40.42	26.23	24.43	23.28	23.20	13.69
TRADER	40.49	39.50	34.99	33.13	34.34	40.48	40.27	37.55	40.42	26.23	24.30	23.28	23.20	13.69
COST														
JUL														
WT.AVG	39.72	38.83	33.46	31.78	32.76	41.53	40.09	40.33	41.07	29.13	27.65	26.73	26.53	13.69
TRADER	39.74	38.85	33.46	31.78	32.76	41.53	40.10	40.33	41.07	29.13	27.52	26.73	26.53	13.69
COST														
AUG														
WT.AVG	35.73	34.85	26.87	25.60	26.17	35.39	31.37	35.50	34.10	26.89	25.88	25.29	25.17	13.69
TRADER	35.74	34.85	26.87	25.60	26.17	35.39	31.38	35.50	34.10	26.89	25.76	25.29	25.17	13.69
COST														
SEP														
WT.AVG	34.52	33.80	26.02	24.78	25.31	31.94	29.17	29.12	31.17	23.94	23.00	22.52	22.40	13.69
TRADER	34.53	33.81	26.02	24.78	25.31	31.94	29.18	29.12	31.17	23.94	22.92	22.52	22.40	13.69
COST														
OCT														
WT.AVG	28.46	28.21	21.68	20.87	20.90	25.06	22.10	20.76	23.64	17.16	16.43	16.27	16.10	13.69
TRADER	28.50	28.25	21.68	20.87	20.90	25.06	22.13	20.76	23.64	17.16	16.48	16.27	16.10	13.69
COST														
NOV														
WT.AVG	21.50	21.19	16.24	15.17	15.35	21.39	19.19	17.29	19.97	11.55	10.58	10.02	10.09	13.69
TRADER	21.52	21.22	16.24	15.17	15.35	21.39	19.20	17.29	19.97	11.55	10.55	10.02	10.09	13.69
COST														
DEC														
WT.AVG	21.23	19.21	14.51	13.35	13.69	17.81	16.89	14.66	17.48	10.34	9.55	8.96	9.10	13.69
TRADER	21.21	19.21	14.51	13.35	13.69	17.81	16.90	14.66	17.48	10.34	9.52	8.96	9.10	13.69
COST														
2008 AVG														
WT.AVG	32.45	31.55	26.44	25.20	25.73	30.85	29.43	28.52	30.25	20.61	19.43	18.71	18.66	13.68
TRADER	32.45	31.56	26.44	25.20	25.73	30.85	29.43	28.52	30.25	20.61	19.35	18.71	18.66	13.68
COST														

Table 8.1-4 Wholesale Prices of Petroleum Products at Refinery in Thailand (cont.)

Unit : Baht/Litre

Products	1. Gasoline					2. Kero- sene	3. Diesel			4. Fuel Oil				5. LPG (B/kg (exclude vat)
	ULG95	UGR 91	Gasohol 95 (E10) (E20)		Gasohol 91		HSD	HSD B5	LSD	600 (2% <i>s</i>)	1500 (2% <i>s</i>)	2000	2500	
2009														
JAN														
WT.AVG	25.31	21.68	16.26	14.05	15.46	17.83	16.81	14.62	17.21	10.96	10.30	9.68	9.82	13.69
TRADER	25.29	21.66	16.26	14.05	15.46	17.83	16.82	14.62	17.21	10.96	10.25	9.68	9.82	13.69
COST														
FEB														
WT.AVG	28.33	24.53	19.82	17.39	19.09	16.49	16.66	13.50	15.37	10.94	10.49	10.13	10.23	13.69
TRADER	28.33	24.53	19.82	17.39	19.09	16.49	16.67	13.50	15.37	10.94	10.47	10.13	10.23	13.69
COST														
MAR														
WT.AVG	27.70	25.40	21.83	19.23	21.01	16.70	19.51	16.17	16.12	10.75	10.21	9.79	9.91	13.69
TRADER	27.70	25.38	21.83	19.23	21.01	16.70	19.50	16.17	16.12	10.75	10.17	9.79	9.91	13.69
COST														
APR														
WT.AVG	29.08	27.37	23.53	20.54	22.72	18.01	20.93	17.48	17.57	12.20	11.71	11.27	11.35	13.69
TRADER	29.08	27.35	23.53	20.54	22.72	18.01	20.94	17.48	17.57	12.20	11.66	11.27	11.35	13.69
COST														
MAY														
WT.AVG	30.61	28.81	24.93	21.77	24.16	18.70	22.09	19.16	18.40	13.82	13.41	12.97	13.05	13.69
TRADER	30.60	28.79	24.93	21.77	24.16	18.70	22.08	19.16	18.40	13.82	13.35	12.97	13.05	13.69
COST														
JUN														
WT.AVG	32.88	31.14	27.25	24.23	26.45	21.20	25.04	20.64	21.15	15.80	15.32	15.00	14.95	13.69
TRADER	32.87	31.13	27.25	24.23	26.45	21.20	25.03	20.64	21.15	15.80	15.26	15.00	14.95	13.69
COST														
JUL														
WT.AVG	33.37	31.38	27.37	24.23	26.43	20.41	24.79	20.06	20.53	15.86	15.44	15.08	15.16	13.69
TRADER	33.37	31.38	27.37	24.23	26.43	20.41	24.80	20.06	20.53	15.86	15.39	15.08	15.16	13.69
COST														
AUG														
WT.AVG	36.00	33.95	30.05	26.47	28.96	21.81	26.27	23.07	22.83	17.13	16.64	16.28	16.34	13.69
TRADER	35.99	33.95	30.05	26.47	28.96	21.81	26.27	23.07	22.83	17.13	16.58	16.28	16.34	13.69
COST														
SEP														
WT.AVG	34.50	32.53	30.04	25.31	27.59	20.90	24.55	22.97	21.94	16.67	16.23	15.99	16.01	13.69
TRADER	34.51	32.54	30.04	25.31	27.59	20.90	24.55	22.97	21.94	16.67	16.18	15.99	16.01	13.69
COST														
OCT														
WT.AVG	34.68	32.62	28.85	25.41	27.76	21.74	25.30	24.22	22.55	17.04	16.60	16.19	16.26	13.69
TRADER	34.67	32.60	28.85	25.41	27.76	21.74	25.29	24.22	22.55	17.04	16.53	16.19	16.26	13.69
COST														
NOV														
WT.AVG	35.57	33.55	29.66	26.13	28.56	22.84	26.26	25.08	23.64	17.96	17.50	17.20	16.22	13.69
TRADER	35.58	33.55	29.66	26.13	28.56	22.84	26.26	25.08	23.64	17.96	17.44	17.20	16.22	13.69
COST														
DEC														
WT.AVG	35.53	33.50	29.62	26.09	28.53	22.41	25.68	24.60	22.95	17.83	17.43	17.11	17.12	13.69
TRADER	35.53	33.49	29.62	26.09	28.53	22.41	25.68	24.60	22.95	17.83	17.36	17.11	17.12	13.69
COST														
2009 AVG														
WT.AVG	31.96	29.70	25.77	22.57	24.73	19.92	22.82	20.13	20.02	14.75	14.27	13.89	13.87	13.69
TRADER	31.96	29.70	25.77	22.57	24.73	19.92	22.82	20.13	20.02	14.75	14.22	13.89	13.87	13.69
COST														

Table 8.1-4 Wholesale Prices of Petroleum Products at Refinery in Thailand (cont.)

Unit : Baht/Litre

Products	1. Gasoline					2. Kero- sene	3. Diesel			4. Fuel Oil				5. LPG (B/kg) (exclude vat)
	ULG95	UGR 91	Gasohol 95 (E10) (E20)		Gasohol 91		HSD	HSD B5	LSD	600 (2% ^s)	1500 (2% ^s)	2000	2500	
2010														
JAN														
WT.AVG	36.72	34.74	30.69	27.02	29.62	22.94	26.32	25.28	23.54	18.40	17.99	17.68	17.68	13.69
TRADER	36.73	34.74	30.69	27.02	29.62	22.94	26.32	25.28	23.54	18.40	17.92	17.68	17.68	13.69
COST														
FEB														
WT.AVG	36.48	34.84	30.88	26.91	29.18	22.14	26.20	24.88	23.05	17.74	17.30	16.86	16.93	13.69
TRADER	36.48	34.83	30.88	26.91	29.18	22.14	26.19	24.88	23.05	17.74	17.23	16.86	16.93	13.69
COST														
MAR														
WT.AVG	37.10	35.63	31.60	27.41	29.66	22.96	27.05	25.68	23.96	17.75	17.22	16.87	16.80	13.69
TRADER	37.11	35.63	31.60	27.41	29.66	22.96	27.05	25.68	23.96	17.75	17.15	16.87	16.80	13.69
COST														
APR														
WT.AVG	37.61	36.01	32.05	27.81	30.11	24.36	28.31	26.92	25.23	18.44	17.81	17.33	17.35	13.69
TRADER	37.61	36.00	32.05	27.81	30.11	24.36	28.31	26.92	25.23	18.44	17.74	17.33	17.35	13.69
COST														
MAY														
WT.AVG	35.76	34.35	30.39	26.36	28.43	23.09	26.99	25.62	24.06	17.43	16.82	16.54	16.51	13.69
TRADER	35.78	34.36	30.39	26.36	28.43	23.09	27.00	25.62	24.06	17.43	16.78	16.54	16.51	13.69
COST														
JUN														
WT.AVG	35.44	33.98	30.10	26.09	28.15	22.78	26.30	25.35	23.52	16.86	16.25	15.83	15.89	13.69
TRADER	35.44	33.97	30.10	26.09	28.15	22.78	26.29	25.35	23.52	16.86	16.18	15.83	15.89	13.69
COST														
JUL														
WT.AVG	35.15	33.70	29.84	25.86	27.89	22.40	26.03	25.21	23.20	16.83	16.26	15.86	15.85	13.69
TRADER	35.16	33.70	29.84	25.86	27.89	22.40	26.03	25.21	23.20	16.83	16.20	15.86	15.85	13.69
COST														
AUG														
WT.AVG	30.97	33.44	26.07	19.89	27.62	22.51	26.26	25.38	23.52	16.92	16.32	15.98	15.93	13.69
TRADER	31.04	33.44	26.07	19.89	27.62	22.51	26.27	25.38	23.52	16.92	16.26	15.98	15.93	13.69
COST														
SEP														
WT.AVG	29.74	32.90	24.96	18.42	27.15	22.04	25.84	24.82	22.81	16.19	15.62	15.23	15.25	13.69
TRADER	29.82	32.90	24.96	18.42	27.15	22.04	25.83	24.82	22.81	16.19	15.56	15.23	15.25	13.69
COST														
OCT														
WT.AVG	30.49	33.81	25.64	18.89	27.98	22.82	26.50	25.48	23.50	16.63	16.04	15.67	15.65	13.69
TRADER	30.57	33.80	25.64	18.89	27.98	22.82	26.49	25.48	23.50	16.63	15.97	15.67	15.65	13.69
COST														
NOV														
WT.AVG	31.11	34.33	26.19	19.36	28.59	23.48	27.32	26.38	24.15	17.28	16.66	16.29	16.23	13.69
TRADER	31.19	34.32	26.19	19.36	28.59	23.48	27.31	26.38	24.15	17.28	16.59	16.29	16.23	13.69
COST														
DEC														
WT.AVG	32.78	35.92	27.30	19.62	29.03	24.78	28.14	27.93	25.50	18.04	17.34	16.94	16.88	13.69
TRADER	32.86	35.92	27.30	19.62	29.03	24.78	28.12	27.93	25.50	18.04	17.27	16.94	16.88	13.69
COST														
2010 AVG														
WT.AVG	34.11	34.47	28.81	23.64	28.62	23.03	26.77	25.75	23.84	17.37	16.80	16.42	16.41	13.69
TRADER	34.15	34.47	28.81	23.64	28.62	23.03	26.77	25.75	23.84	17.37	16.74	16.42	16.41	13.69
COST														

After Jan'1992 Wholesale Prices Including Vat.

Table 8.1-5Y Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Products	1. Gasoline				2. Kerosene		3. Diesel		4. Fuel Oil		5. LPG	
	ULG95	UGR 91	Gasohol 95		Gasohol 91	HSD	B5	LSD	600 (2% _s)	1500 (2% _s)	(Baht/kg)	
			(E10)	(E20)							Large-small	Automobile
			(E10)	(E20)	(E85)							(Baht/L)
												Automobile
1997 (MIN)	10.43	10.04				10.90		9.43	5.67	5.43	11.36	10.46
(WT.AVG)	10.48	10.09				11.17		9.49	5.85	5.45	11.36	10.53
(MAX)	10.50	10.12				11.40		9.51	6.06	5.97	11.36	10.58
1998 (MIN)	11.84	11.18				11.16		9.18	6.59	6.21	12.70	11.94
(WT.AVG)	11.86	11.20				11.70		9.19	6.79	6.42	12.70	11.94
(MAX)	11.87	11.20				12.10		9.19	7.20	7.01	12.70	11.94
1999 (MIN)	11.96	11.14				11.25		8.95	6.41	6.09	11.03	10.75
(WT.AVG)	11.98	11.16				11.63		8.96	6.87	6.29	11.03	10.75
(MAX)	11.98	11.17				11.93		8.97	7.86	7.69	11.03	10.75
2000 (MIN)	15.62	14.66				14.83		12.92	9.30	8.94	10.70	10.57
(WT.AVG)	15.63	14.68				15.10		12.95	9.68	9.22	10.70	10.57
(MAX)	15.64	14.68				15.43		12.97	10.47	10.25	10.70	10.57
2001 (MIN)	15.50	14.50				15.33		13.42	9.39	8.90	11.90	12.00
(WT.AVG)	15.51	14.51				15.97		13.43	9.76	9.25	11.90	12.00
(MAX)	15.51	14.51				16.53		13.43	10.41	9.98	11.90	12.00
2002 (MIN)	15.29	14.29				14.54		13.12	9.31	8.96	13.77	13.98
(WT.AVG)	15.29	14.29				15.56		13.12	9.91	9.24	13.77	13.98
(MAX)	15.29	14.29				16.12		13.12	10.65	10.19	13.77	13.98
2003 (MIN)	16.60	15.65				15.60		14.03	10.38	10.02	14.87	14.88
(WT.AVG)	16.60	15.65				16.71		14.03	11.00	10.36	14.87	14.88
(MAX)	16.60	15.65				17.41		14.03	12.40	11.80	14.87	14.88
2004 (MIN)	19.05	18.26				17.73		14.59	10.66	10.25	16.46	16.46
(WT.AVG)	19.05	18.26				19.50		14.59	11.75	10.98	16.46	16.46
(MAX)	19.05	18.26				20.22		14.59	13.02	12.53	16.46	16.46
2005 (MIN)	23.89	23.09				22.06		20.01	13.75	13.10	16.81	16.81
(WT.AVG)	23.90	23.10				24.51		20.03	15.83	15.09	16.81	16.81
(MAX)	23.91	23.11				25.71		20.05	17.30	16.86	16.81	16.81
2006 (MIN)	27.54	26.75				26.87		25.56	17.22	16.35	16.81	16.81
(WT.AVG)	27.58	26.79				28.42		25.59	18.11	17.29	16.81	16.81
(MAX)	27.66	26.86				29.25		25.61	19.27	18.79	16.81	16.81
2007 (MIN)	29.18	28.32	26.17			26.01		25.66	18.48	17.66	16.91	16.91
(WT.AVG)	29.18	28.32	26.17			28.94		25.66	19.35	18.45	16.91	16.91
(MAX)	29.23	28.35	26.25			30.50		25.67	20.67	20.19	16.91	16.91
2008 (MIN)	34.86	33.40	28.95	27.36		34.99		31.15	22.53	21.06	18.13	18.13
(WT.AVG)	35.33	33.43	28.97	27.37		38.34		31.26	24.30	22.90	18.13	18.13
(MAX)	35.89	33.45	29.02	27.37		40.88		31.34	27.12	26.11	18.13	18.13
2009 (MIN)	37.23	31.32	27.49	25.39	18.77	26.65		24.75	18.10	16.39	18.13	18.13
(WT.AVG)	37.47	31.34	27.50	25.39	18.87	26.69		24.77	21.18	19.83	18.13	18.13
(MAX)	38.29	31.36	27.53	25.39	18.96	26.74		24.79	27.28	25.90	18.13	18.13
2010 (MIN)	41.12	36.08	32.30	29.96	19.21	30.84		28.64	21.06	19.35	18.13	18.13
(WT.AVG)	41.26	36.10	32.35	29.96	19.21	30.85		28.69	23.59	22.04	18.13	18.13
(MAX)	41.90	36.13	32.40	29.96	19.21	30.90		28.72	27.28	25.90	18.13	18.13

Table 8.1-6 Tax and Oil Fund Revenue in Thailand

Unit : Million Bahts

Month	Oil Fund	Oil Fund Inflow (Outflow)	Excise Tax & Import Duty
2006		35,404	74,102
Jan	-73,913	2,902	5,889
Feb	-69,386	4,527	5,407
Mar	-64,669	4,717	5,925
Apr	-61,072	3,597	6,863
May	-57,914	3,158	6,909
Jun	-55,794	2,120	6,365
Jul	-53,946	1,848	6,566
Aug	-51,808	2,138	6,115
Sep	-50,287	1,521	5,865
Oct	-48,251	2,036	6,219
Nov	-44,853	3,398	6,016
Dec	-41,411	3,442	5,963
2007		41,411	76,962
Jan	-37,492	3,919	7,363
Feb	-33,698	3,794	6,096
Mar	-30,012	3,686	6,349
Apr	-26,580	3,432	6,691
May	-22,444	4,136	6,726
Jun	-19,197	3,247	6,198
Jul	-16,451	2,746	6,194
Aug	-15,426	1,025	6,809
Sep	-11,822	3,604	6,157
Oct	-5,572	6,250	6,558
Nov	-2,933	2,639	6,075
Dec	0	2,933	5,746
2008		11,069	54,083
Jan	2,560	2,560	7,009
Feb	3,659	1,099	5,933
Mar	3,780	121	6,843
Apr	3,305	-475	7,139
May	3,839	534	6,404
Jun	3,672	-167	6,152
Jul	134	-3,538	5,472
Aug	197	63	1,955
Sep	1,562	1,365	1,928
Oct	4,496	2,934	1,851
Nov	7,563	3,067	1,628
Dec	11,069	3,506	1,769

Table 8.1-6 Tax and Oil Fund Revenue in Thailand (Cont.)

Unit : Million Bahts

Month	Oil Fund	Oil Fund Inflow (Outflow)	Excise Tax & Import Duty
2009		10,225	123,445
Jan	14,960	3,891	1,483
Feb	16,618	1,658	7,169
Mar	19,567	2,949	9,325
Apr	15,694	-3,873	8,645
May	17,566	1,872	10,037
Jun	15,173	-2,393	13,331
Jul	16,593	1,420	12,557
Aug	19,054	2,461	12,225
Sep	19,683	629	11,039
Oct	20,561	878	12,351
Nov	20,758	197	12,279
Dec	21,294	536	13,004
2010		6,147	153,561
Jan	20,794	-500	12,514
Feb	20,705	-89	12,443
Mar	21,764	1,059	14,603
Apr	22,705	941	13,852
May	22,670	-35	11,939
Jun	23,820	1,150	12,564
Jul	25,441	1,621	12,605
Aug	26,901	1,460	12,664
Sep	27,525	624	12,007
Oct	28,171	646	12,023
Nov	28,768	597	12,431
Dec	27,441	-1,327	13,916

Remark : Including debt since October 2000





● ● Chapter 9

AIR POLLUTION EMISSION IN THE ENERGY SECTOR

● ● บทที่ 9

การปล่อยมลพิษทางอากาศ
ในภาคพลังงาน



บทที่ 9 การปล่อยมลพิษทางอากาศ ในภาคพลังงาน

วิธีการคำนวณ การคำนวณปริมาณการปลดปล่อยมลพิษทางอากาศ เป็นการประมาณปริมาณก๊าซคาร์บอนไดออกไซด์ (CO₂) ที่เกิดจากการใช้พลังงานของประเทศ ซึ่งคำนวณจากปริมาณการใช้พลังงาน (Energy Consumption) และค่าสัมประสิทธิ์การปล่อยก๊าซ CO₂ (Emission Factor) ตามชนิดเชื้อเพลิง โดยอ้างอิงระเบียบวิธีประมาณการและค่าสัมประสิทธิ์การปล่อยก๊าซ CO₂ ตามหลักเกณฑ์ของ Intergovernmental Panel on Climate Change (IPCC) ฉบับปี 2006 โดยมีสูตรคำนวณดังนี้

$$\text{CO}_2 \text{ Emission} = \sum (\text{EF}_{\text{Fuel}} \times \text{FC}_{\text{Fuel}})$$

CO ₂ Emission	หมายถึง	ปริมาณการปล่อยก๊าซ CO ₂ จากการใช้พลังงาน
EF _{Fuel} (Emission Factor) ¹	หมายถึง	ค่าสัมประสิทธิ์การปล่อยก๊าซ CO ₂ ตามชนิดเชื้อเพลิง
FC _{Fuel} (Fuel Consumption) ²	หมายถึง	ปริมาณการใช้เชื้อเพลิงแต่ละชนิด

ขอบเขตการคำนวณปริมาณก๊าซ CO₂ ข้างต้น คำนวณจากการใช้พลังงานของ 4 ภาคเศรษฐกิจ ได้แก่ ภาคการผลิตไฟฟ้า (Power Generation) ภาคการขนส่ง (Transportation) ภาคอุตสาหกรรม (Industry) และภาคเศรษฐกิจอื่นๆ (Other Sectors) ซึ่งหมายถึงภาคครัวเรือน เกษตรกรรม และพาณิชย์กรรม ด้านชนิดเชื้อเพลิงได้แบ่งเชื้อเพลิงในการคำนวณออกเป็น 3 ชนิด ได้แก่ น้ำมันสำเร็จรูป (คำนวณจากการใช้น้ำมันเบนซิน ดีเซล น้ำมันเตา ก๊าซปิโตรเลียมเหลว (LPG) น้ำมันเครื่องบิน และน้ำมันก๊าด) ก๊าซธรรมชาติ และถ่านหิน/ลิกไนต์ โดยในการคำนวณจะไม่รวมเชื้อเพลิงบางชนิด ได้แก่ น้ำมันเตาสำหรับเรือเดินสมุทรระหว่างประเทศ (Bunker Oil) น้ำมันเครื่องบินสำหรับเที่ยวบินระหว่างประเทศ และเชื้อเพลิงหมุนเวียน เช่น ชีวมวล ก๊าซชีวภาพ เอทานอล ไบโอดีเซล พลังน้ำ เป็นต้น เพื่อให้สอดคล้องกับข้อยกเว้นในการคำนวณและป้องกันการนับซ้ำของ IPCC

การปล่อยก๊าซ CO₂ รายภาคเศรษฐกิจ

- **ภาคการผลิตไฟฟ้า** ในปี 2553 มีการปล่อยก๊าซ CO₂ รวมทั้งสิ้น 90.79 ล้านตัน โดยกว่า 20 ปีที่ผ่านมา มีการปล่อยก๊าซ CO₂ จากการใช้น้ำมันสำเร็จรูป (น้ำมันดีเซล และน้ำมันเตา) ลดลงจาก 1.84 ล้านตันในปี 2530 เหลือ 0.99 ล้านตันในปี 2553 ในขณะที่การใช้ถ่านหิน/ลิกไนต์ และก๊าซธรรมชาติยังคงมีแนวโน้มการปล่อยก๊าซ CO₂ สูงขึ้นตามปริมาณการใช้พลังงานที่เพิ่มขึ้น โดยถ่านหิน/ลิกไนต์ปล่อยก๊าซ CO₂ เพิ่มขึ้นจาก 6.60 ล้านตันในปี 2530 เป็น 31.81 ล้านตันในปี 2553 เช่นเดียวกับก๊าซธรรมชาติที่ปล่อยก๊าซ CO₂ เพิ่มขึ้นจาก 8.06 ล้านตันในปี 2530 เป็น 57.99 ล้านตันในปี 2553 โดยก๊าซธรรมชาตินับเป็นเชื้อเพลิงที่มีการปล่อยก๊าซ CO₂ ในภาคการผลิตไฟฟ้ามากที่สุด

¹ อ้างอิงจากคู่มือการคำนวณการปล่อยมลพิษทางอากาศของ Intergovernmental Panel on Climate Change (IPCC) ฉบับปี 2006

² อ้างอิงจากฐานข้อมูลสถิติพลังงานของสำนักงานนโยบายและแผนพลังงาน

Chapter 9

Air Pollution Emission in the Energy Sector



Calculation Methods. The calculation of the amount of air pollution emissions herein is the estimation of CO₂ emission stemming from energy use in Thailand, calculated from the amount of energy consumption and the CO₂ emission factor by fuel type, with reference to the estimation methodologies and CO₂ emission factors prescribed in the 2006 Guidelines of the Intergovernmental Panel on Climate Change (IPCC), using the following calculation formula:

$$\text{CO}_2 \text{ Emission} = \sum (\text{EF}_{\text{Fuel}} \times \text{FC}_{\text{Fuel}})$$

Where:

- CO₂ Emission means the amount of CO₂ emission from energy consumption
- EF_{Fuel} (Emission Factor)¹ means the CO₂ emission coefficient of each fuel type
- FC_{Fuel} (Fuel Consumption)² means the amount of utilization of each fuel type

The scope of the above-mentioned CO₂ emission calculation covers energy consumption in four major economic sectors, namely: power generation, transportation, industry and other economic sectors (covering the residential, agricultural and commercial sectors). As for the fuel types used in the calculation, they are divided into three types, namely: petroleum products (calculated from consumption of gasoline, diesel, fuel oil, LPG, jet petroleum and kerosene), natural gas and coal/lignite. Certain types of fuel are not included in the calculation, i.e. bunker oil for international ocean liners, jet petroleum for international flights, and renewable fuels, such as biomass, biogas, ethanol, biodiesel and hydropower, to be in line with the exceptions to the calculation and to avoid the possibilities of double counting prescribed by the IPCC.

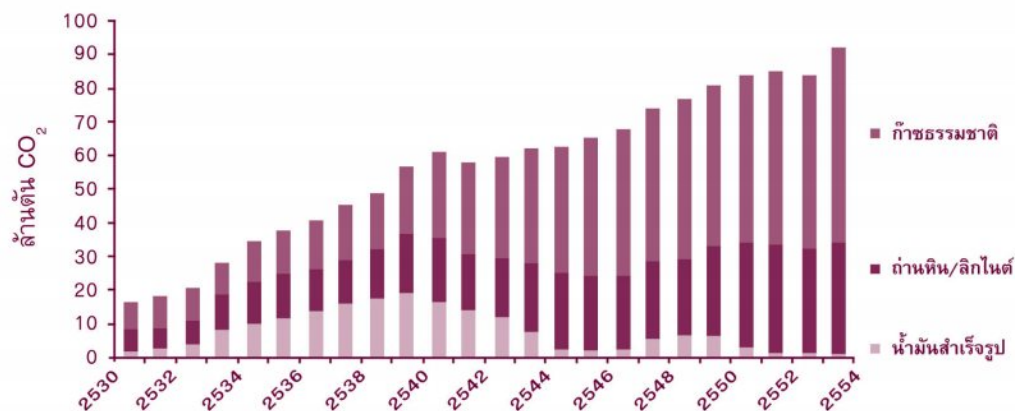
CO₂ Emission by Economic Sector

- **Power Generation Sector.** In 2010, CO₂ emissions in this sector totaled 90.79 million tons. Over the past 20 years, CO₂ emissions from the use of petroleum products (diesel and fuel oil) had decreased from 1.84 million tons in 1987 to 0.99 million tons in 2010. However, CO₂ emissions from the use of coal/lignite and natural gas had been rising in accordance with increased volume of energy use. CO₂ emission from coal/lignite consumption increased from 6.60 million tons in 1987 to 31.81 million tons in 2010. Similarly, CO₂ emission from natural gas consumption increased from 8.06 million tons in 1987 to 57.99 million tons in 2010, which accounted for the largest CO₂ emission source in the power generation sector.

¹Based on the 2006 Intergovernmental Panel on Climate Change (IPCC) Guidelines for National Greenhouse Gas Inventories

²Based on the energy statistics database of the Energy Policy and Planning Office

การปล่อยก๊าซ CO₂ ภาคการผลิตไฟฟ้า



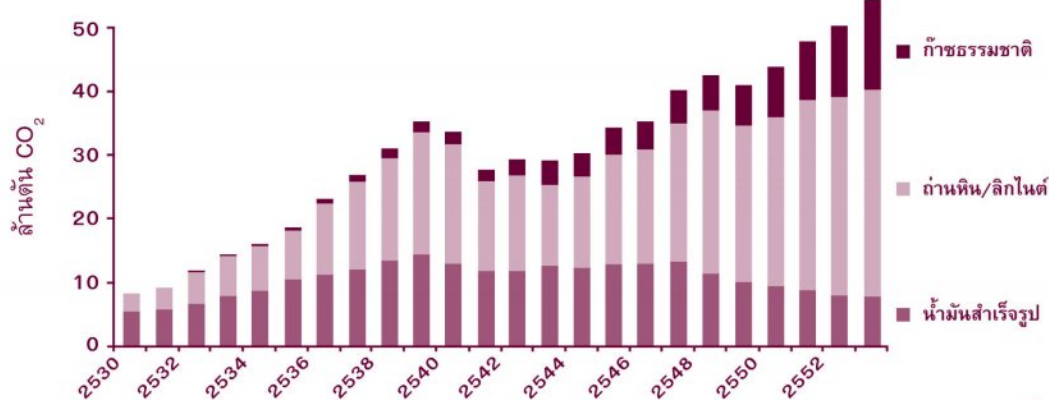
หน่วย : ล้านตัน CO₂

ปี พ.ศ.	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541
น้ำมันสำเร็จรูป	1.84	2.52	3.78	8.10	9.90	11.63	14.09	16.06	17.62	19.19	16.43	14.00
ถ่านหิน/ลิกไนต์	6.60	6.23	7.15	10.44	12.53	13.13	12.14	12.85	14.37	17.51	19.27	16.53
ก๊าซธรรมชาติ	8.05	9.63	9.84	9.62	12.32	13.04	14.73	16.65	17.03	20.20	25.54	27.45

ปี พ.ศ.	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553
น้ำมันสำเร็จรูป	12.02	7.56	2.37	2.14	2.30	5.58	6.48	6.33	2.95	1.21	1.03	0.99
ถ่านหิน/ลิกไนต์	17.40	20.32	22.57	21.98	21.92	23.04	22.77	26.72	31.28	32.38	31.74	31.81
ก๊าซธรรมชาติ	30.24	34.53	37.80	41.15	43.66	45.49	47.64	47.98	49.85	51.64	51.76	57.99

● **ภาคอุตสาหกรรม** มีการปล่อยก๊าซ CO₂ จากการใช้ถ่านหิน/ลิกไนต์ และก๊าซธรรมชาติเพิ่มขึ้น ในขณะที่มีแนวโน้มการปล่อยก๊าซ CO₂ จากน้ำมันสำเร็จรูป (น้ำมันดีเซล น้ำมันเตา น้ำมันก๊าด และ LPG) ลดลงเช่นเดียวกับภาคการผลิตไฟฟ้า ในปี 2553 ถ่านหิน/ลิกไนต์เป็นเชื้อเพลิงที่มีสัดส่วนการปล่อยก๊าซ CO₂ มากที่สุดในภาคอุตสาหกรรม โดยเพิ่มขึ้นจาก 2.94 ล้านตันในปี 2530 เป็น 32.05 ล้านตันในปี 2553เช่นเดียวกับก๊าซธรรมชาติที่ปล่อยก๊าซ CO₂ ในช่วงดังกล่าวเพิ่มขึ้น ในขณะที่น้ำมันสำเร็จรูปมีแนวโน้มการปล่อยก๊าซ CO₂ ลดลงเหลือเพียง 7.92 ล้านตันในปี 2553

การปล่อยก๊าซ CO₂ ภาคอุตสาหกรรม

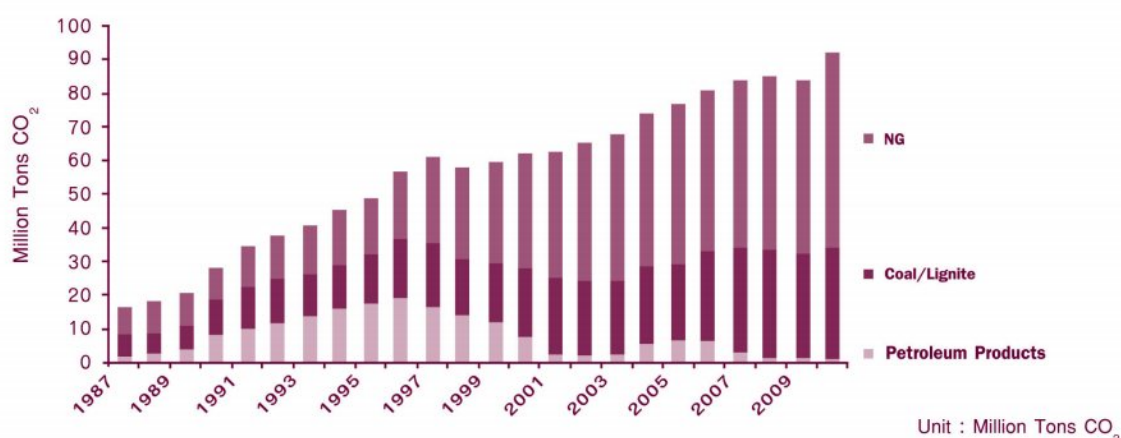


หน่วย : ล้านตัน CO₂

ปี พ.ศ.	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541
น้ำมันสำเร็จรูป	5.46	5.68	6.78	7.93	8.65	10.40	11.26	11.97	13.51	14.28	12.91	11.69
ถ่านหิน/ลิกไนต์	2.94	3.59	4.82	6.16	6.90	7.66	10.97	13.82	15.97	19.27	18.76	14.11
ก๊าซธรรมชาติ	0.10	0.15	0.20	0.37	0.52	0.71	0.87	1.14	1.55	1.66	2.05	1.95

ปี พ.ศ.	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553
น้ำมันสำเร็จรูป	11.87	12.63	12.34	12.86	12.87	13.24	11.41	10.06	9.54	8.88	8.00	7.92
ถ่านหิน/ลิกไนต์	14.97	12.78	14.24	17.27	17.98	21.73	25.57	24.59	26.35	29.78	30.66	32.05
ก๊าซธรรมชาติ	2.61	3.86	3.76	4.22	4.62	5.35	5.62	6.41	7.88	9.34	11.26	14.00

CO₂ Emission in the Power Generation Sector

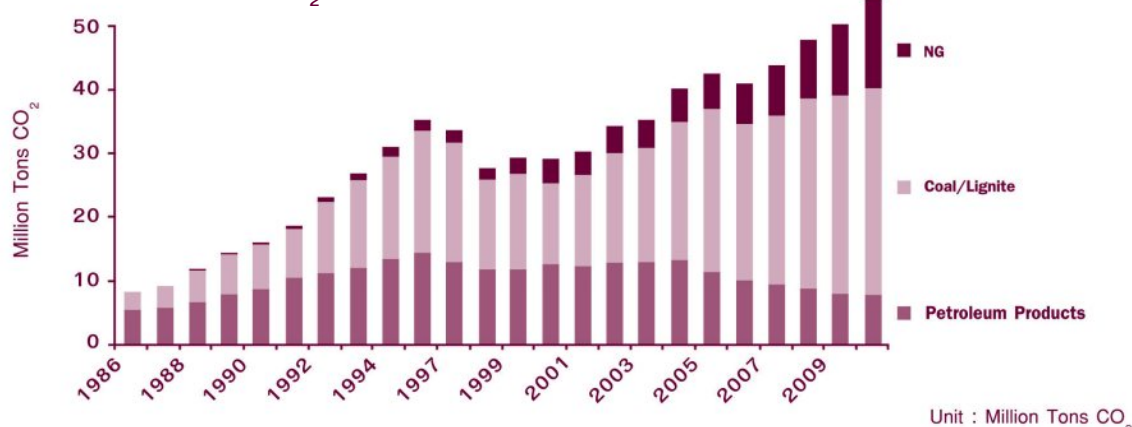


Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Petroleum Products	1.84	2.52	3.78	8.10	9.90	11.63	14.09	16.06	17.62	19.19	16.43	14.00
Coal/Lignite	6.60	6.23	7.15	10.44	12.53	13.13	12.14	12.85	14.37	17.51	19.27	16.53
NG	8.05	9.63	9.84	9.62	12.32	13.04	14.73	16.65	17.03	20.20	25.54	27.45

Year	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Petroleum Products	12.02	7.56	2.37	2.14	2.30	5.58	6.48	6.33	2.95	1.21	1.03	0.99
Coal/Lignite	17.40	20.32	22.57	21.98	21.92	23.04	22.77	26.72	31.28	32.38	31.74	31.81
NG	30.24	34.53	37.80	41.15	43.66	45.49	47.64	47.98	49.85	51.64	51.76	57.99

• **Industrial Sector.** Similar to the power generation sector, CO₂ emissions from coal/lignite and natural gas consumption in this sector had increased while a decrease in emissions had been observed in the use of petroleum products (diesel, fuel oil, kerosene and LPG). In 2010, coal/lignite accounted for the largest CO₂ emission source in the industrial sector, with the emission increasing from 2.94 million tons in 1987 to 32.05 million tons in 2010. CO₂ emission from natural gas consumption also increased over the same period, whereas the CO₂ emission from petroleum product consumption decreased to only 7.92 million tons in 2010.

CO₂ Emission in the Industrial Sector



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Petroleum Products	5.46	5.68	6.78	7.93	8.65	10.40	11.26	11.97	13.51	14.28	12.91	11.69
Coal/Lignite	2.94	3.59	4.82	6.16	6.90	7.66	10.97	13.82	15.97	19.27	18.76	14.11
NG	0.10	0.15	0.20	0.37	0.52	0.71	0.87	1.14	1.55	1.66	2.05	1.95

Year	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Petroleum Products	11.87	12.63	12.34	12.86	12.87	13.24	11.41	10.06	9.54	8.88	8.00	7.92
Coal/Lignite	14.97	12.78	14.24	17.27	17.98	21.73	25.57	24.59	26.35	29.78	30.66	32.05
NG	2.61	3.86	3.76	4.22	4.62	5.35	5.62	6.41	7.88	9.34	11.26	14.00

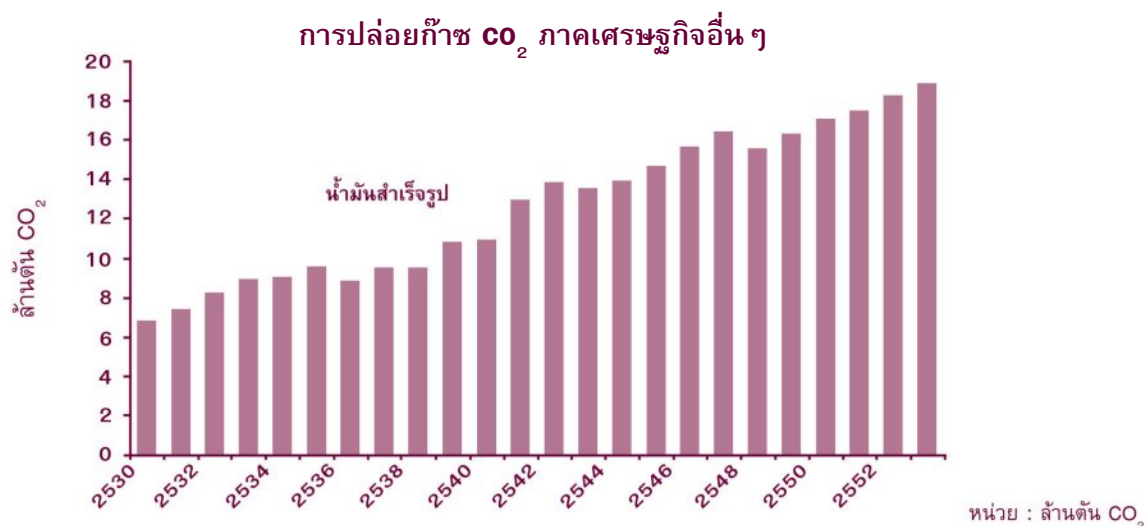
● **ภาคการขนส่ง** เชื้อเพลิงสำคัญที่ก่อให้เกิดการปล่อยก๊าซ CO₂ ในภาคเศรษฐกิจนี้ คือ น้ำมันสำเร็จรูป (น้ำมันเบนซิน ดีเซล น้ำมันเตา น้ำมันเครื่องบิน และ LPG) โดยมีการปล่อยก๊าซ CO₂ เพิ่มขึ้นจาก 18.09 ล้านตัน ในปี 2530 เป็น 55.24 ล้านตันในปี 2540 ก่อนจะลดลงในปี 2541 ซึ่งเป็นช่วงที่ประเทศเกิดภาวะวิกฤตเศรษฐกิจ อันส่งผลให้มีการใช้พลังงานลดลง จากนั้นจึงเริ่มมีแนวโน้มการปล่อยก๊าซ CO₂ เพิ่มขึ้น ต่อเนื่องจนถึงปี 2553 ซึ่งมีการปล่อยที่ระดับ 53.22 ล้านตัน เช่นเดียวกับก๊าซธรรมชาติที่เริ่มมีการใช้เป็นเชื้อเพลิงภาคขนส่งในปี 2544 และมีแนวโน้มการปล่อยก๊าซ CO₂ เพิ่มขึ้นอย่างต่อเนื่อง จาก 0.01 ล้านตันในปี 2544 เป็น 3.85 ล้านตันในปี 2553



ปี พ.ศ.	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541
น้ำมันสำเร็จรูป	18.09	21.05	25.20	28.35	28.98	30.91	36.53	40.94	48.21	52.71	55.24	46.74
ก๊าซธรรมชาติ	-	-	-	-	-	-	-	-	-	-	-	-

ปี พ.ศ.	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553
น้ำมันสำเร็จรูป	46.89	45.56	46.53	49.24	53.00	56.48	57.38	54.60	55.07	50.88	52.84	53.22
ก๊าซธรรมชาติ	-	-	0.01	0.01	0.01	0.06	0.14	0.23	0.50	1.65	3.03	3.85

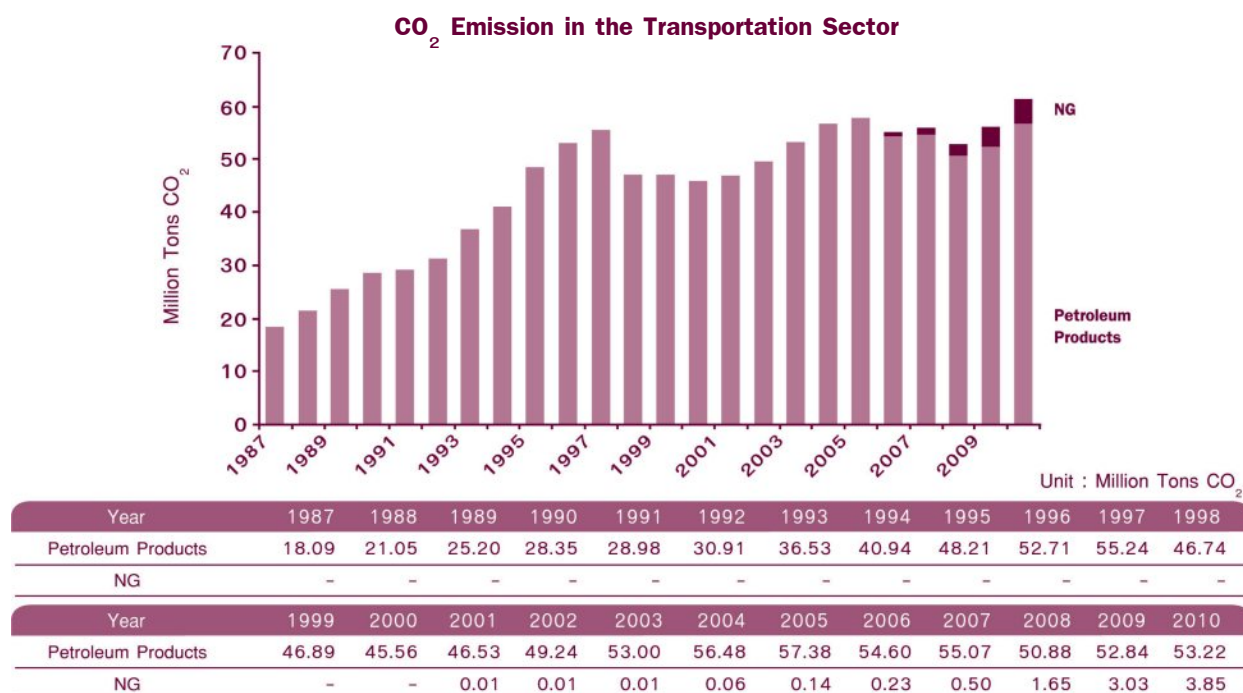
● **ภาคเศรษฐกิจอื่นๆ** ยังคงมีแนวโน้มการปล่อยก๊าซ CO₂ จากการใช้น้ำมันสำเร็จรูปเพิ่มสูงขึ้น จาก 6.77 ล้านตันในปี 2530 เป็น 18.82 ล้านตันในปี 2553



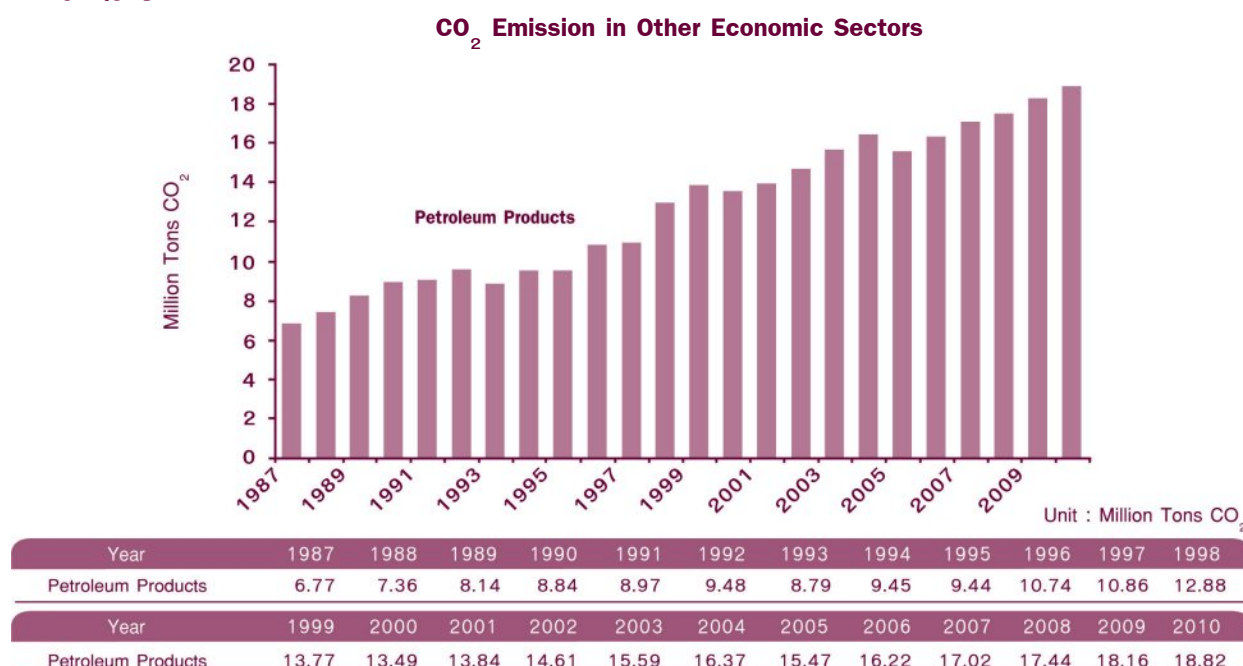
ปี พ.ศ.	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541
น้ำมันสำเร็จรูป	6.77	7.36	8.14	8.84	8.97	9.48	8.79	9.45	9.44	10.74	10.86	12.88

ปี พ.ศ.	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553
น้ำมันสำเร็จรูป	13.77	13.49	13.84	14.61	15.59	16.37	15.47	16.22	17.02	17.44	18.16	18.82

• **Transportation Sector.** The major fuel that constituted the largest CO₂ emission source in this economic sector was petroleum products (gasoline, diesel, fuel oil, jet petroleum and LPG), with increased emissions from 18.09 million tons in 1987 to 55.24 million tons in 1997 before declining in 1998 when the economic crisis hit the country and hence decreasing energy consumption. After that the trend of CO₂ emission was continuously on the rise again, reaching 53.22 million tons in 2010. Similar trend can be observed in the case of natural gas, which was used as transport fuel, starting in 2001, and continuously increased CO₂ emission from 0.01 million tons in 2001 to 3.85 million tons in 2010.



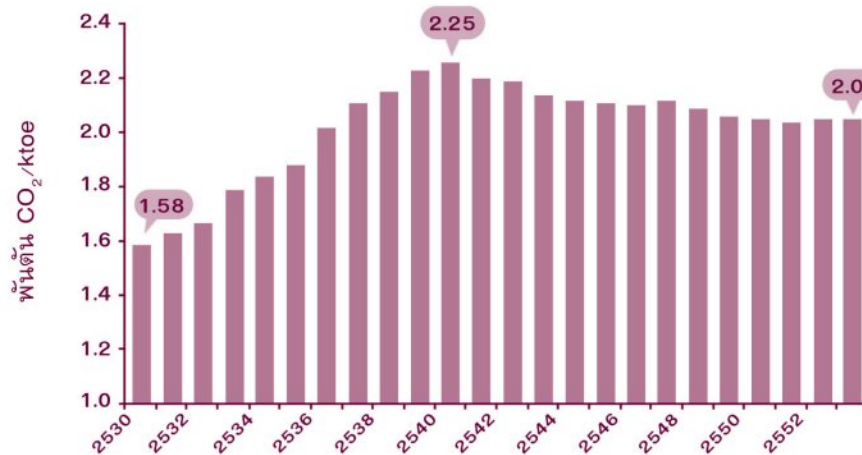
• **Other Economic Sectors.** The trend still showed increasing CO₂ emissions stemming from petroleum product consumption, rising from 6.77 million tons in 1987 to 18.82 million tons in 2010.



ดัชนีชี้วัดการปล่อยก๊าซ CO₂

• **การปล่อยก๊าซ CO₂ ต่อการใช้พลังงานขั้นต้น** มีแนวโน้มเพิ่มสูงขึ้นในช่วงปี 2530-2540 จาก 1.58 พันตัน เป็น 2.25 พันตัน ต่อการใช้พลังงานขั้นต้น 1 ktoe หรือเพิ่มขึ้นเฉลี่ยร้อยละ 3.6 ต่อปี จากนั้นจึงลดลงอย่างชัดเจนตั้งแต่ปี 2541 ต่อเนื่องจนถึงปี 2553 ซึ่งมีการปล่อยก๊าซ CO₂ ที่ระดับ 2.04 พันตันต่อการใช้พลังงานขั้นต้น 1 ktoe เฉลี่ยลดลงร้อยละ 0.6 ต่อปี

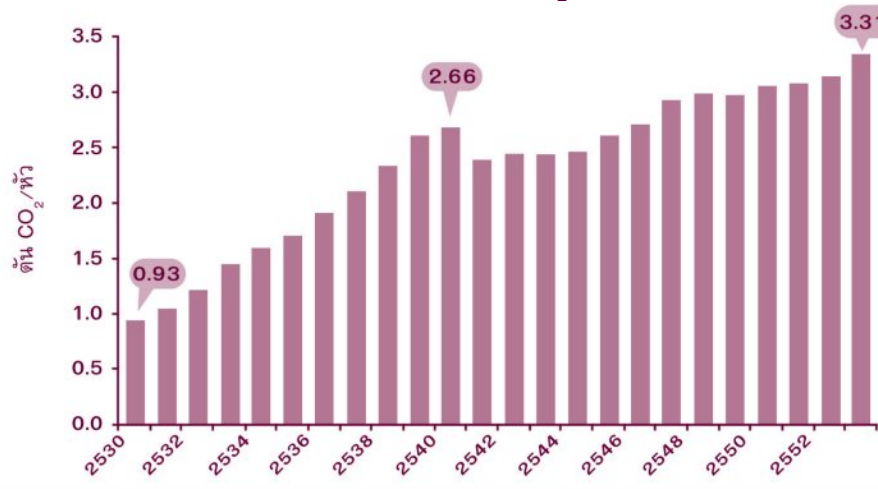
การปล่อยก๊าซ CO₂ ต่อการใช้พลังงาน



หน่วย : พันตัน CO₂/ktoe

• **การปล่อยก๊าซ CO₂ ต่อหัว (CO₂ Emission per Capita)** มีอัตราการเติบโตค่อนข้างสูงในช่วงปี 2530-2540 โดยเฉลี่ยเพิ่มขึ้นร้อยละ 11.1 ต่อปี ก่อนจะลดต่ำลงเล็กน้อยในปี 2541 ตามการใช้พลังงานที่ลดลงจากภาวะเศรษฐกิจ และมีแนวโน้มเพิ่มขึ้นในปีต่อมาต่อเนื่องจนถึงปี 2553 ซึ่งมีการปล่อยก๊าซ CO₂ ที่ระดับ 3.31 ตันต่อหัว เฉลี่ยเพิ่มขึ้นร้อยละ 2.8 ต่อปี

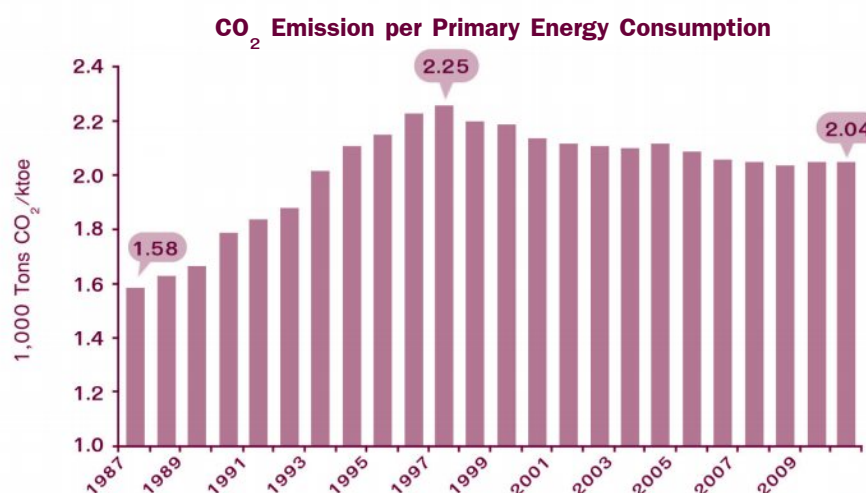
การปล่อยก๊าซ CO₂ ต่อหัว



หน่วย : ตัน CO₂/หัว

CO₂ Emission Indicators

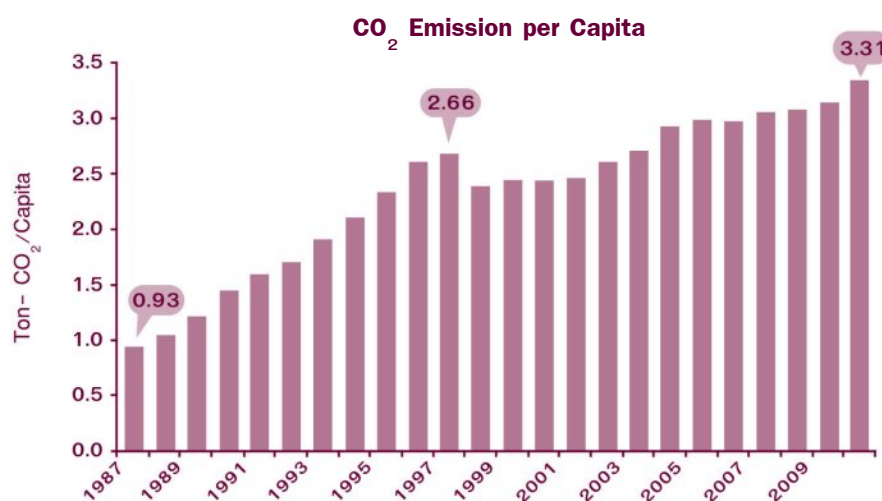
- CO₂ Emission per Primary Energy Consumption.** This indicator reflects an increasing trend of emission during the period 1987–1997, i.e. from 1.58 thousand tons to 2.25 thousand tons per 1 ktoe of primary energy consumption, or at an average annual growth rate of 3.6%. Since 1998, the emission had continuously and distinctly declined; in 2010 the level of CO₂ emission was at 2.04 thousand tons per 1 ktoe of primary energy consumption, or a decrease at an average annual rate of 0.6%.



Unit : 1,000 Tons CO₂/ktoe

Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
CO ₂	1.58	1.62	1.66	1.78	1.83	1.87	2.01	2.1	2.14	2.22	2.25	2.19
Year	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
CO ₂	2.18	2.13	2.11	2.1	2.09	2.11	2.08	2.05	2.04	2.03	2.04	2.04

- CO₂ Emission per Capita.** This indicator illustrates a rather high growth rate during 1987–1997, with an average annual growth rate of 11.1%, before decreasing slightly in 1998 due to the shrinkage in energy consumption caused by the economic crisis. In 1999, the rising trend resumed and continued in following years; in 2010, the CO₂ emission per capita stood at 3.31 tons, accounting for an average annual growth rate of 2.8%.



Unit : Ton CO₂/Capita

Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
CO ₂	0.93	1.03	1.19	1.43	1.57	1.69	1.89	2.09	2.32	2.59	2.66	2.37
Year	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
CO ₂	2.42	2.42	2.44	2.58	2.69	2.9	2.96	2.95	3.04	3.06	3.12	3.31

• **การปล่อยก๊าซ CO₂ ต่อ GDP** มีแนวโน้มเพิ่มขึ้นจาก 36.20 ตัน ในปี 2530 มาอยู่ที่ 52.42 ตัน ต่อ GDP 1 ล้านบาท ในปี 2540 เติบโตเพิ่มขึ้นร้อยละ 3.8 ต่อปี โดยในปี 2541 มีการปล่อยก๊าซ CO₂ เพิ่มขึ้นเป็น 52.86 ตัน ต่อ GDP 1 ล้านบาท ซึ่งเป็นอัตราสูงสุดของประเทศในรอบกว่า 20 ปีที่ผ่านมา จากนั้นจึงมีแนวโน้มลดลงจนถึงปัจจุบันซึ่งมีการปล่อยก๊าซ CO₂ ที่ระดับ 48.37 ตัน ต่อ GDP 1 ล้านบาท เติบโตลดลงร้อยละ 0.7 ต่อปี

การปล่อยก๊าซ CO₂ ต่อ GDP

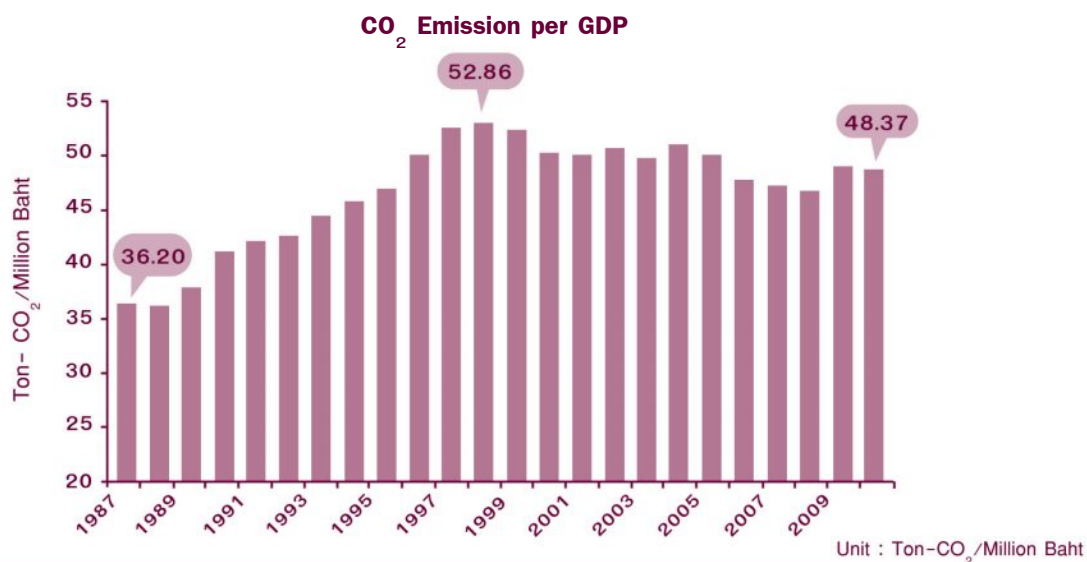


• **การปล่อยก๊าซ CO₂ ต่อหน่วยการผลิตไฟฟ้า (kWh)** มีการเปลี่ยนแปลงเป็นช่วงตามสัดส่วนเชื้อเพลิงที่ใช้ในการผลิตไฟฟ้า จาก 0.569 กิโลกรัม ต่อ 1 kWh ในปี 2530 เพิ่มขึ้นเป็น 0.685 กิโลกรัม ต่อ 1 kWh ในปี 2534 จากนั้นจึงเริ่มมีแนวโน้มลดลงตามสัดส่วนของก๊าซธรรมชาติที่นำมาใช้เป็นเชื้อเพลิงในการผลิตไฟฟ้ามากขึ้น โดยปี 2553 มีการปล่อยก๊าซ CO₂ ที่ระดับ 0.563 กิโลกรัม ต่อ 1 kWh

การปล่อยก๊าซ CO₂ ต่อหน่วยการผลิตไฟฟ้า (kWh)



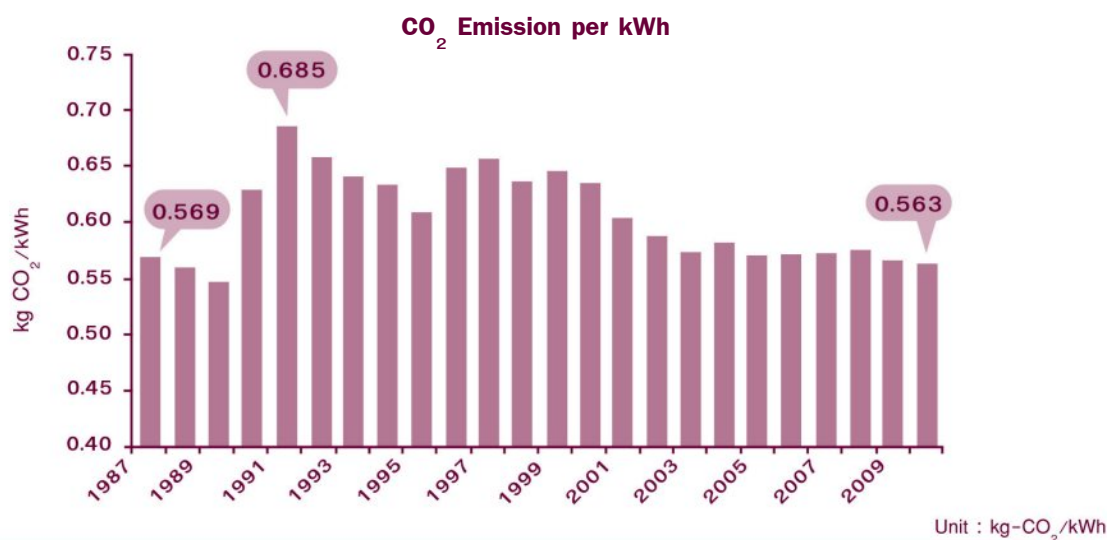
• **CO₂ Emission per GDP.** The trend had been increasing, from 36.20 tons in 1987 to 52.42 tons per one million Baht of GDP in 1997, or an average annual growth rate of 3.8%. In 1998, CO₂ emissions increased to 52.86 tons per one million Baht of GDP, which was the highest rate ever experienced in Thailand over the past 20 years. Then, the trend had declined; in 2010, CO₂ emission stood at 48.37 tons per one million Baht of GDP, or an average decrease of 0.7% per year.



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
CO ₂	36.20	36.04	37.67	41.02	42.03	42.48	44.27	45.63	46.81	49.93	52.42	52.86

Year	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
CO ₂	52.15	50.10	49.93	50.50	49.58	50.79	49.89	47.63	47.06	46.55	48.90	48.37

• **CO₂ Emission per Unit of Power Generation (kWh).** The emission varied periodically in accordance with the shares of fuel used in power generation, i.e. the emission increased from 0.569 kg/kWh in 1987 to 0.685 kg/kWh in 1991. After that the emission decreased due to greater use of natural gas as fuel in power generation. In 2010, CO₂ emission stood at 0.563 kg/kWh.



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
CO ₂	0.569	0.56	0.547	0.629	0.685	0.657	0.64	0.633	0.609	0.648	0.656	0.636

Year	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
CO ₂	0.645	0.634	0.604	0.587	0.573	0.581	0.57	0.571	0.572	0.575	0.566	0.563

Table 9.1-1Y CO₂ Emission by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
1987	32,152	9,540	8,150	49,842
1988	36,609	9,824	9,777	56,210
1989	43,910	11,964	10,047	65,921
1990	53,221	16,594	9,987	79,802
1991	56,495	19,425	12,835	88,756
1992	62,417	20,790	13,754	96,962
1993	70,672	23,109	15,601	109,382
1994	78,419	26,664	17,793	122,876
1995	88,777	30,339	18,576	137,692
1996	96,916	36,777	21,860	155,553
1997	95,440	38,024	27,593	161,058
1998	85,309	30,637	29,400	145,345
1999	84,552	32,373	32,855	149,780
2000	79,242	33,100	38,385	150,727
2001	75,082	36,810	41,570	153,462
2002	78,851	39,244	45,377	163,472
2003	83,762	39,903	48,291	171,956
2004	91,671	44,763	50,902	187,336
2005	90,750	48,333	53,404	192,486
2006	87,210	51,313	54,613	193,136
2007	84,577	57,629	58,232	200,439
2008	78,403	62,154	62,624	203,181
2009	80,027	62,404	66,045	208,476
2010	80,956	63,856	75,833	220,644
Growth Rate (%)				
1987	8.1	44.4	50.2	19.3
1988	13.9	3.0	20.0	12.8
1989	19.9	21.8	2.8	17.3
1990	21.2	38.7	-0.6	21.1
1991	6.2	17.1	28.5	11.2
1992	10.5	7.0	7.2	9.3
1993	13.2	11.2	13.4	12.8
1994	11.0	15.4	14.1	12.3
1995	13.2	13.8	4.4	12.1
1996	9.2	21.2	17.7	13.0
1997	-1.5	3.4	26.2	3.5
1998	-10.6	-19.4	6.6	-9.8
1999	-0.9	5.7	11.8	3.1
2000	-6.3	2.2	16.8	0.6
2001	-5.3	11.2	8.3	1.8
2002	5.0	6.6	9.2	6.5
2003	6.2	1.7	6.4	5.2
2004	9.4	12.2	5.4	8.9
2005	-1.0	8.0	4.9	2.8
2006	-3.9	6.2	2.3	0.3
2007	-3.0	12.3	6.6	3.8
2008	-7.3	7.9	7.5	1.4
2009	2.1	0.4	5.5	2.6
2010	1.2	2.2	14.8	5.8

Notes : 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-2Y CO₂ Emission from Energy Consumption by Sector

Unit : 1,000 Tons

	Power Generation	Transport	Industry	Other	Total
1987	16,492	18,092	8,492	6,766	49,842
1988	18,380	21,047	9,419	7,364	56,210
1989	20,771	25,202	11,803	8,145	65,921
1990	28,149	28,354	14,460	8,838	79,802
1991	34,750	28,978	16,062	8,966	88,756
1992	37,799	30,912	18,775	9,476	96,962
1993	40,967	36,534	23,092	8,789	109,382
1994	45,559	40,939	26,929	9,450	122,876
1995	49,014	48,211	31,031	9,436	137,692
1996	56,887	52,711	35,211	10,744	155,553
1997	61,242	55,235	33,718	10,863	161,058
1998	57,974	46,741	27,746	12,884	145,345
1999	59,659	46,893	29,455	13,774	149,780
2000	62,405	45,560	29,267	13,495	150,727
2001	62,749	46,537	30,338	13,839	153,462
2002	65,265	49,245	34,352	14,609	163,472
2003	67,884	53,003	35,478	15,591	171,956
2004	74,099	56,546	40,321	16,371	187,336
2005	76,893	57,520	42,599	15,474	192,486
2006	81,028	54,831	41,057	16,220	193,136
2007	84,080	55,571	43,770	17,017	200,439
2008	85,226	52,524	47,993	17,438	203,181
2009	84,527	55,871	49,921	18,157	208,476
2010	90,792	57,070	53,960	18,823	220,644
Growth Rate (%)					
1987	32.2	15.9	17.7	4.7	19.3
1988	11.5	16.3	10.9	8.8	12.8
1989	13.0	19.7	25.3	10.6	17.3
1990	35.5	12.5	22.5	8.5	21.1
1991	23.5	2.2	11.1	1.4	11.2
1992	8.8	6.7	16.9	5.7	9.3
1993	8.4	18.2	23.0	-7.2	12.8
1994	11.2	12.1	16.6	7.5	12.3
1995	7.6	17.8	15.2	-0.1	12.1
1996	16.1	9.3	13.5	13.9	13.0
1997	7.7	4.8	-4.2	1.1	3.5
1998	-5.3	-15.4	-17.7	18.6	-9.8
1999	2.9	0.3	6.2	6.9	3.1
2000	4.6	-2.8	-0.6	-2.0	0.6
2001	0.6	2.1	3.7	2.6	1.8
2002	4.0	5.8	13.2	5.6	6.5
2003	4.0	7.6	3.3	6.7	5.2
2004	9.2	6.7	13.7	5.0	8.9
2005	3.8	1.7	5.7	-5.5	2.8
2006	5.4	-4.7	-3.6	4.8	0.3
2007	3.8	1.4	6.6	4.9	3.8
2008	1.4	-5.5	9.7	2.5	1.4
2009	-0.8	6.4	4.0	4.1	2.6
2010	7.4	2.2	8.1	3.7	5.8

Notes : 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-3Y CO₂ Emission in Power Generation by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
1987	1,837	6,600	8,055	16,492
1988	2,520	6,231	9,629	18,380
1989	3,779	7,149	9,843	20,771
1990	8,097	10,437	9,615	28,149
1991	9,901	12,529	12,320	34,750
1992	11,630	13,129	13,039	37,799
1993	14,092	12,143	14,731	40,967
1994	16,061	12,847	16,651	45,559
1995	17,619	14,368	17,027	49,014
1996	19,185	17,506	20,196	56,887
1997	16,429	19,268	25,544	61,242
1998	13,997	16,529	27,448	57,974
1999	12,016	17,402	30,240	59,659
2000	7,559	20,321	34,526	62,405
2001	2,373	22,574	37,801	62,749
2002	2,141	21,977	41,147	65,265
2003	2,302	21,921	43,661	67,884
2004	5,576	23,037	45,486	74,099
2005	6,485	22,766	47,642	76,893
2006	6,331	26,723	47,975	81,028
2007	2,952	31,276	49,852	84,080
2008	1,211	32,376	51,639	85,226
2009	1,030	31,741	51,757	84,527
2010	992	31,811	57,989	90,792
Growth Rate (%)				
1987	-32.1	45.0	54.3	32.2
1988	37.2	-5.6	19.6	11.5
1989	50.0	14.7	2.2	13.0
1990	114.3	46.0	-2.3	35.5
1991	22.3	20.1	28.1	23.5
1992	17.5	4.8	5.8	8.8
1993	21.2	-7.5	13.0	8.4
1994	14.0	5.8	13.0	11.2
1995	9.7	11.8	2.3	7.6
1996	8.9	21.8	18.6	16.1
1997	-14.4	10.1	26.5	7.7
1998	-14.8	-14.2	7.5	-5.3
1999	-14.2	5.3	10.2	2.9
2000	-37.1	16.8	14.2	4.6
2001	-68.6	11.1	9.5	0.6
2002	-9.8	-2.6	8.9	4.0
2003	7.5	-0.3	6.1	4.0
2004	142.3	5.1	4.2	9.2
2005	16.3	-1.2	4.7	3.8
2006	-2.4	17.4	0.7	5.4
2007	-53.4	17.0	3.9	3.8
2008	-59.0	3.5	3.6	1.4
2009	-14.9	-2.0	0.2	-0.8
2010	-3.7	0.2	12.0	7.4

Notes : 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-4Y CO₂ Emission in Transport by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
1987	18,092			18,092
1988	21,047			21,047
1989	25,202			25,202
1990	28,354			28,354
1991	28,978			28,978
1992	30,912			30,912
1993	36,534			36,534
1994	40,939			40,939
1995	48,211			48,211
1996	52,711			52,711
1997	55,235			55,235
1998	46,741			46,741
1999	46,893			46,893
2000	45,560			45,560
2001	46,531		6	46,537
2002	49,240		6	49,245
2003	52,996		7	53,003
2004	56,483		63	56,546
2005	57,383		137	57,520
2006	54,601		230	54,831
2007	55,071		500	55,571
2008	50,877		1,647	52,524
2009	52,838		3,033	55,871
2010	53,224		3,845	57,070
Growth Rate (%)				
1987	15.9			15.9
1988	16.3			16.3
1989	19.7			19.7
1990	12.5			12.5
1991	2.2			2.2
1992	6.7			6.7
1993	18.2			18.2
1994	12.1			12.1
1995	17.8			17.8
1996	9.3			9.3
1997	4.8			4.8
1998	-15.4			-15.4
1999	0.3			0.3
2000	-2.8			-2.8
2001	2.1			2.1
2002	5.8		-0.6	5.8
2003	7.6		19.6	7.6
2004	6.6		849.3	6.7
2005	1.6		118.1	1.7
2006	-4.9		67.8	-4.7
2007	0.9		117.6	1.4
2008	-7.6		229.4	-5.5
2009	3.9		84.2	6.4
2010	0.7		26.8	2.2

Notes : 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-5Y CO₂ Emission in Industry by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
1987	5,457	2,940	95	8,492
1988	5,679	3,593	147	9,419
1989	6,783	4,815	204	11,803
1990	7,932	6,157	371	14,460
1991	8,651	6,896	516	16,062
1992	10,399	7,661	715	18,775
1993	11,256	10,966	870	23,092
1994	11,970	13,817	1,142	26,929
1995	13,512	15,970	1,549	31,031
1996	14,276	19,271	1,664	35,211
1997	12,913	18,756	2,049	33,718
1998	11,686	14,108	1,951	27,746
1999	11,870	14,971	2,614	29,455
2000	12,629	12,779	3,859	29,267
2001	12,339	14,236	3,763	30,338
2002	12,862	17,266	4,224	34,352
2003	12,873	17,982	4,623	35,478
2004	13,240	21,726	5,354	40,321
2005	11,408	25,567	5,624	42,599
2006	10,058	24,590	6,408	41,057
2007	9,536	26,353	7,881	43,770
2008	8,877	29,778	9,338	47,993
2009	8,003	30,663	11,256	49,921
2010	7,917	32,045	13,998	53,960
Growth Rate (%)				
1987	10.1	43.0	-53.8	17.7
1988	4.1	22.2	54.8	10.9
1989	19.5	34.0	38.8	25.3
1990	16.9	27.9	81.6	22.5
1991	9.1	12.0	38.9	11.1
1992	20.2	11.1	38.7	16.9
1993	8.2	43.1	21.7	23.0
1994	6.3	26.0	31.3	16.6
1995	12.9	15.6	35.6	15.2
1996	5.7	20.7	7.5	13.5
1997	-9.6	-2.7	23.1	-4.2
1998	-9.5	-24.8	-4.8	-17.7
1999	1.6	6.1	34.0	6.2
2000	6.4	-14.6	47.6	-0.6
2001	-2.3	11.4	-2.5	3.7
2002	4.2	21.3	12.2	13.2
2003	0.1	4.1	9.5	3.3
2004	2.9	20.8	15.8	13.7
2005	-13.8	17.7	5.1	5.7
2006	-11.8	-3.8	13.9	-3.6
2007	-5.2	7.2	23.0	6.6
2008	-6.9	13.0	18.5	9.7
2009	-9.9	3.0	20.5	4.0
2010	-1.1	4.5	24.4	8.1

Notes : 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-6Y CO₂ Emission in Other Economic Sectors by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
1987	6,766			6,766
1988	7,364			7,364
1989	8,145			8,145
1990	8,838			8,838
1991	8,966			8,966
1992	9,476			9,476
1993	8,789			8,789
1994	9,450			9,450
1995	9,436			9,436
1996	10,744			10,744
1997	10,863			10,863
1998	12,884			12,884
1999	13,774			13,774
2000	13,495			13,495
2001	13,839			13,839
2002	14,609			14,609
2003	15,591			15,591
2004	16,371			16,371
2005	15,474			15,474
2006	16,220			16,220
2007	17,017			17,017
2008	17,438			17,438
2009	18,157			18,157
2010	18,823			18,823
Growth Rate (%)				
1987	4.7			4.7
1988	8.8			8.8
1989	10.6			10.6
1990	8.5			8.5
1991	1.4			1.4
1992	5.7			5.7
1993	-7.2			-7.2
1994	7.5			7.5
1995	-0.1			-0.1
1996	13.9			13.9
1997	1.1			1.1
1998	18.6			18.6
1999	6.9			6.9
2000	-2.0			-2.0
2001	2.6			2.6
2002	5.6			5.6
2003	6.7			6.7
2004	5.0			5.0
2005	-5.5			-5.5
2006	4.8			4.8
2007	4.9			4.9
2008	2.5			2.5
2009	4.1			4.1
2010	3.7			3.7

Notes : 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-7Y CO₂ Emission by Sectors and Energy Type

Unit : 1,000 Tons

	1987			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	1,837	6,600	8,055	16,492
Transport	18,092			18,092
Industry	5,457	2,940	95	8,492
Other	6,766			6,766
Total	32,152	9,540	8,150	49,842
	1988			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,520	6,231	9,629	18,380
Transport	21,047			21,047
Industry	5,679	3,593	147	9,419
Other	7,364			7,364
Total	36,609	9,824	9,777	56,210
	1989			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	3,779	7,149	9,843	20,771
Transport	25,202			25,202
Industry	6,783	4,815	204	11,803
Other	8,145			8,145
Total	43,910	11,964	10,047	65,921
	1990			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	8,097	10,437	9,615	28,149
Transport	28,354			28,354
Industry	7,932	6,157	371	14,460
Other	8,838			8,838
Total	53,221	16,594	9,987	79,802
	1991			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	9,901	12,529	12,320	34,750
Transport	28,978			28,978
Industry	8,651	6,896	516	16,062
Other	8,966			8,966
Total	56,495	19,425	12,835	88,756
	1992			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	11,630	13,129	13,039	37,799
Transport	30,912			30,912
Industry	10,399	7,661	715	18,775
Other	9,476			9,476
Total	62,417	20,790	13,754	96,962
	1993			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	14,092	12,143	14,731	40,967
Transport	36,534			36,534
Industry	11,256	10,966	870	23,092
Other	8,789			8,789
Total	70,672	23,109	15,601	109,382
	1994			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	16,061	12,847	16,651	45,559
Transport	40,939			40,939
Industry	11,970	13,817	1,142	26,929
Other	9,450			9,450
Total	78,419	26,664	17,793	122,876

Table 9.1-7Y CO₂ Emission by Sectors and Energy Type (Cont.)

Unit : 1,000 Tons

	1995			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	17,619	14,368	17,027	49,014
Transport	48,211			48,211
Industry	13,512	15,970	1,549	31,031
Other	9,436			9,436
Total	88,777	30,339	18,576	137,692
	1996			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	19,185	17,506	20,196	56,887
Transport	52,711			52,711
Industry	14,276	19,271	1,664	35,211
Other	10,744			10,744
Total	96,916	36,777	21,860	155,553
	1997			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	16,429	19,268	25,544	61,242
Transport	55,235			55,235
Industry	12,913	18,756	2,049	33,718
Other	10,863			10,863
Total	95,440	38,024	27,593	161,058
	1998			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	13,997	16,529	27,448	57,974
Transport	46,741			46,741
Industry	11,686	14,108	1,951	27,746
Other	12,884			12,884
Total	85,309	30,637	29,400	145,345
	1999			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	12,016	17,402	30,240	59,659
Transport	46,893			46,893
Industry	11,870	14,971	2,614	29,455
Other	13,774			13,774
Total	84,552	32,373	32,855	149,780
	2000			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	7,559	20,321	34,526	62,405
Transport	45,560			45,560
Industry	12,629	12,779	3,859	29,267
Other	13,495			13,495
Total	79,242	33,100	38,385	150,727
	2001			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,373	22,574	37,801	62,749
Transport	46,531		6	46,537
Industry	12,339	14,236	3,763	30,338
Other	13,839			13,839
Total	75,082	36,810	41,570	153,462
	2002			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,141	21,977	41,147	65,265
Transport	49,240		6	49,245
Industry	12,862	17,266	4,224	34,352
Other	14,609			14,609
Total	78,851	39,244	45,377	163,472

Notes : 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-7Y CO₂ Emission by Sectors and Energy Type (Cont.)

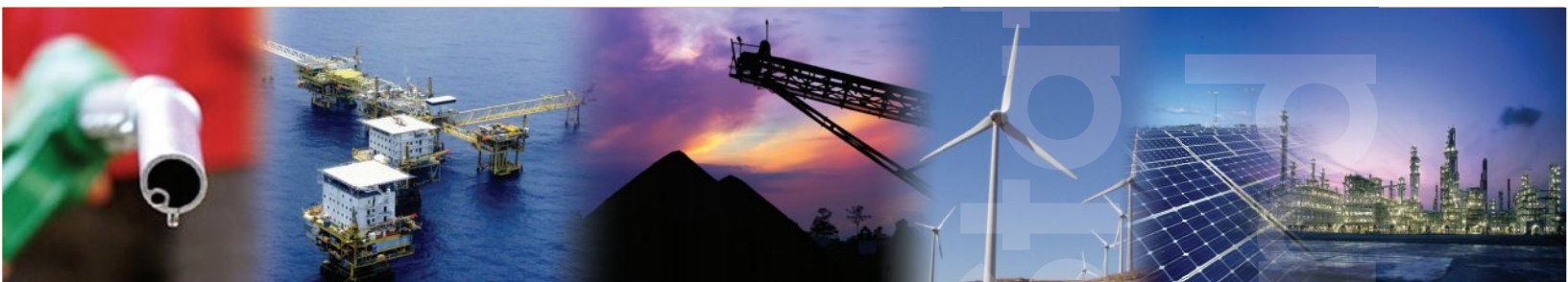
Unit : 1,000 Tons

	2003			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,302	21,921	43,661	67,884
Transport	52,996		7	53,003
Industry	12,873	17,982	4,623	35,478
Other	15,591			15,591
Total	83,762	39,903	48,291	171,956
	2004			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	5,576	23,037	45,486	74,099
Transport	56,483		63	56,546
Industry	13,240	21,726	5,354	40,321
Other	16,371			16,371
Total	91,671	44,763	50,902	187,336
	2005			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	6,485	22,766	47,642	76,893
Transport	57,383		137	57,520
Industry	11,408	25,567	5,624	42,599
Other	15,474			15,474
Total	90,750	48,333	53,404	192,486
	2006			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	6,331	26,723	47,975	81,028
Transport	54,601		230	54,831
Industry	10,058	24,590	6,408	41,057
Other	16,220			16,220
Total	87,210	51,313	54,613	193,136
	2007			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,952	31,276	49,852	84,080
Transport	55,071		500	55,571
Industry	9,536	26,353	7,881	43,770
Other	17,017			17,017
Total	84,577	57,629	58,232	200,439
	2008			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	1,211	32,376	51,639	85,226
Transport	50,877		1,647	52,524
Industry	8,877	29,778	9,338	47,993
Other	17,438			17,438
Total	78,403	62,154	62,624	203,181
	2009			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	1,030	31,741	51,757	84,527
Transport	52,838		3,033	55,871
Industry	8,003	30,663	11,256	49,921
Other	18,157			18,157
Total	80,027	62,404	66,045	208,476
	2010			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	992	31,811	57,989	90,792
Transport	53,224		3,845	57,070
Industry	7,917	32,045	13,998	53,960
Other	18,823			18,823
Total	80,956	63,856	75,833	220,644

Notes : 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

APPENDIX



Statistics
2011

Energy
of Thailand



APPENDIX

● ● Chapter 1

ENERGY SITUATION IN 2010

● ● บทที่ 1

สถานการณ์พลังงานปี 2553

Table 1.1-1M Primary Commercial Energy Production (Physical Unit)

2006														
Month	Hydro (GWh)	Lignite (Ton)				NG (MMSCF)	Condensate (1,000 BBL)	Crude Oil (1,000 BBL)						
		EGAT		Total	Others			Total	Benjamas	Sirikit	Tantawan	Fang	Others	Total
		Mae-Moh	Krabi											
Jan	629	1,409,844	10,000	1,419,844	292,175	1,712,019	72,708	2,294	1,557	535	282	32	1,637	4,043
Feb	683	1,107,546	5,000	1,112,546	300,012	1,412,558	65,979	2,147	1,400	488	257	27	1,492	3,664
Mar	756	1,227,563		1,227,563	364,469	1,592,032	74,266	2,398	1,589	580	243	29	1,659	4,100
Apr	662	1,237,717	7,000	1,244,717	247,199	1,491,916	69,281	2,210	1,513	566	263	29	1,647	4,018
May	536	1,493,423		1,493,423	208,923	1,702,346	72,718	2,383	1,649	621	272	29	1,660	4,231
Jun	516	1,487,520	5,000	1,492,520	265,313	1,757,833	71,340	2,310	1,559	545	259	28	1,590	3,980
Jul	542	1,377,792	3,000	1,380,792	262,688	1,643,480	73,109	2,309	1,629	605	262	30	1,472	3,998
Aug	668	1,259,477	4,000	1,263,477	212,158	1,475,635	72,588	2,380	1,508	590	235	30	1,651	4,014
Sep	706	1,422,428	5,000	1,427,428	370,399	1,797,827	70,927	2,386	1,545	551	224	31	1,521	3,872
Oct	846	1,330,055	5,000	1,335,055	218,804	1,553,859	72,672	2,318	1,497	539	235	30	1,282	3,583
Nov	663	1,192,509	5,000	1,197,509	263,979	1,461,488	72,159	2,188	1,513	595	223	31	1,537	3,898
Dec	743	1,217,924	7,000	1,224,924	244,693	1,469,617	71,015	2,143	1,293	638	273	29	1,433	3,665
YTD	7,950	15,763,798	56,000	15,819,798	3,250,810	19,070,608	858,763	27,466	18,251	6,853	3,028	354	18,580	47,067

2007														
Month	Hydro (GWh)	Lignite (Ton)				NG (MMSCF)	Condensate (1,000 BBL)	Crude Oil (1,000 BBL)						
		EGAT		Total	Others			Total	Benjamas	Sirikit	Tantawan	Fang	Others	Total
		Mae-Moh	Krabi											
Jan	754	1,333,519	6,000	1,339,519	254,272	1,593,791	73,460	2,319	1,352	628	279	29	1,435	3,724
Feb	777	1,221,321	10,000	1,231,321	289,481	1,520,802	67,222	2,040	1,199	578	225	27	1,721	3,751
Mar	845	1,294,427	11,112	1,305,539	272,022	1,577,560	77,829	2,411	1,368	661	257	31	2,147	4,463
Apr	733	1,362,232		1,362,232	176,806	1,539,038	74,588	2,290	1,311	646	233	30	2,011	4,232
May	541	1,290,552		1,290,552	141,488	1,432,040	81,616	2,474	1,330	603	224	30	1,927	4,114
Jun	678	1,259,365		1,259,365	168,950	1,428,315	78,796	2,380	1,272	609	203	29	1,977	4,090
Jul	706	1,569,910		1,569,910	207,137	1,777,047	80,642	2,569	1,355	680	162	29	1,949	4,175
Aug	644	1,416,810		1,416,810	169,193	1,586,003	81,050	2,610	1,242	628	171	26	1,894	3,961
Sep	530	1,400,167		1,400,167	108,334	1,508,501	75,128	2,325	1,089	604	220	27	2,041	3,981
Oct	440	1,247,035		1,247,035	76,044	1,323,079	77,849	2,492	1,146	625	290	31	1,870	3,963
Nov	553	1,407,742		1,407,742	106,286	1,514,028	73,621	2,394	1,368	608	291	30	2,055	4,353
Dec	761	1,314,729		1,314,729	124,243	1,438,972	76,116	2,476	1,345	615	257	35	2,058	4,309
YTD	7,961	16,117,809	27,112	16,144,921	2,094,255	18,239,176	917,917	28,778	15,378	7,486	2,812	354	23,085	49,115

Table 1.1-1M Primary Commercial Energy Production (Physical Unit) (Cont.)

2008														
Month	Hydro (GWh)	Lignite (Ton)			NG (MMSCF)	Condensate (1,000 BBL)	Crude Oil (1,000 BBL)							
		EGAT		Total			Others	Benjamas	Sirikit	Tantawan	Fang	Others	Total	
		Mae-Moh	Krabi											
Jan	739	1,261,965		1,261,965	154,955	1,416,920	78,937	2,444	1,311	575	203	34	2,158	4,280
Feb	714	1,322,581		1,322,581	89,760	1,412,341	73,779	2,297	1,229	557	186	32	1,900	3,903
Mar	824	1,301,825	5,000	1,306,825	145,186	1,452,011	80,927	2,437	1,307	695	211	34	1,963	4,210
Apr	824	1,454,233		1,454,233	188,095	1,642,328	84,676	2,627	1,413	639	185	32	1,901	4,169
May	542	1,489,003	5,000	1,494,003	163,792	1,657,795	93,032	2,913	1,367	656	179	34	2,075	4,310
Jun	530	1,453,387	8,000	1,461,387	251,406	1,712,793	89,748	2,835	1,413	673	175	33	2,023	4,317
Jul	521	1,227,168	2,000	1,229,168	216,633	1,445,801	91,252	2,586	1,409	685	188	37	1,964	4,282
Aug	437	1,325,345	3,248	1,328,593	183,916	1,512,510	92,033	2,945	1,456	675	194	38	2,144	4,506
Sep	388	1,382,595		1,382,595	127,742	1,510,337	85,680	2,727	1,413	547	101	37	2,453	4,552
Oct	376	1,328,904		1,328,904	106,675	1,435,579	87,900	2,906	1,452	660	259	38	2,255	4,664
Nov	428	1,344,442		1,344,442	174,357	1,518,799	76,497	2,072	1,413	644	250	41	2,406	4,753
Dec	626	1,529,399		1,529,399	39,872	1,569,271	82,395	2,281	1,273	660	251	43	2,505	4,732
YTD	6,951	16,420,847	23,248	16,444,095	1,842,390	18,286,485	1,016,856	31,071	16,455	7,665	2,381	431	25,748	52,680

2009														
Month	Hydro (GWh)	Lignite (Ton)			NG (MMSCF)	Condensate (1,000 BBL)	Crude Oil (1,000 BBL)							
		EGAT		Total			Others	Benjamas	Sirikit	Tantawan	Fang	Others	Total	
		Mae-Moh	Krabi											
Jan	743	1,468,620		1,468,620	93,065	1,561,685	89,297	2,513	1,331	667	280	39	2,443	4,762
Feb	715	1,174,194		1,174,194	138,458	1,312,652	77,109	2,328	1,119	601	248	35	2,181	4,183
Mar	810	1,254,630		1,254,630	211,163	1,465,793	94,185	2,793	1,450	646	268	35	2,666	5,065
Apr	719	1,227,083		1,227,083	217,794	1,444,877	84,015	2,351	815	668	99	38	3,160	4,780
May	540	1,413,339		1,413,339	154,931	1,568,270	97,526	2,612	222	687	116	38	3,713	4,777
Jun	368	1,435,227		1,435,227	177,569	1,612,796	90,670	2,624	802	615	167	39	3,004	4,626
Jul	369	1,469,759		1,469,759	178,411	1,648,170	89,842	2,626	812	664	194	37	2,995	4,701
Aug	584	1,279,005		1,279,005	217,282	1,496,287	90,983	2,686	896	648	193	41	2,931	4,709
Sep	392	1,254,357		1,254,357	125,811	1,380,168	91,238	2,484	792	639	183	38	2,479	4,132
Oct	476	1,143,009		1,143,009	109,720	1,252,729	93,542	2,607	645	642	207	40	2,699	4,234
Nov	517	1,237,910		1,237,910	115,830	1,353,740	92,919	2,379	822	630	174	37	3,160	4,823
Dec	733	1,274,633		1,274,633	194,300	1,468,933	100,188	2,620	902	677	132	37	3,686	5,434
YTD	6,966	15,631,766		15,631,766	1,934,334	17,566,100	1,091,516	30,623	10,609	7,783	2,262	454	35,116	56,225

Table 1.1-1M Primary Commercial Energy Production (Physical Unit) (Cont.)

2010												
Month	Hydro (GWh)	Lignite (Ton)			Total	NG (MMSCF)	Condensate (1,000 BBL)	Crude Oil (1,000 BBL)				
		Mae-Moh	EGAT Krabi	Total				Benjamas	Sirikit	Tantawan	Fang	Others
Jan	619	1,358,183		1,358,183	1,535,233	99,097	2,568	841	733	128	36	2,910
Feb	639	1,209,511		1,209,511	1,462,373	91,510	2,302	748	631	161	34	2,727
Mar	769	1,343,448		1,343,448	1,566,430	112,982	2,903	913	683	169	39	3,056
Apr	513	1,412,283		1,412,283	1,618,569	101,499	2,550	869	677	106	37	2,849
May	521	1,537,747		1,537,747	1,720,916	107,313	2,727	873	677	121	39	3,193
Jun	416	1,242,187		1,242,187	1,462,647	110,437	2,734	876	683	113	37	3,264
Jul	335	1,276,520		1,276,520	1,430,380	106,670	2,846	891	712	88	36	3,329
Aug	341	1,291,936		1,291,936	1,424,266	110,458	2,751	818	696	93	35	3,377
Sep	245	1,303,351		1,303,351	1,426,651	108,301	2,662	746	624	113	32	3,266
Oct	171	1,301,037		1,301,037	1,466,237	114,006	2,852	733	575	98	33	3,009
Nov	329	1,370,110		1,370,110	1,514,860	108,213	2,687	714	648	102	30	2,786
Dec	450	1,340,950		1,340,950	1,602,850	110,923	2,767	709	621	117	33	2,619
YTD	5,347	15,987,263		15,987,263	18,231,412	1,281,410	32,349	9,733	7,960	1,409	421	36,386
												55,909

Table 1.1-2M Primary Commercial Energy Production

Unit : ktoe

2006															
Month	Hydro	Lignite			NG	Condensate	Crude Oil				Grand Total				
		EGAT		NON EGAT			Total	Benjamas	Sirikit	Tantawan		Fang	Others	Total	
		Mae-Moh	Krabi												
Jan	139	349	3	352	127	479	1,786	285	213	73	39	4	224	553	3,242
Feb	151	274	1	275	131	406	1,621	267	192	67	35	4	204	501	2,946
Mar	168	304		304	159	463	1,825	298	217	79	33	4	227	561	3,315
Apr	147	307	2	309	108	417	1,702	275	207	77	36	4	225	550	3,091
May	119	370		370	91	461	1,787	297	226	85	37	4	227	579	3,243
Jun	114	368	1	369	116	485	1,753	287	213	75	35	4	218	545	3,184
Jul	120	341	1	342	115	457	1,796	287	223	83	36	4	201	547	3,207
Aug	148	312	1	313	92	405	1,783	296	206	81	32	4	226	549	3,181
Sep	156	352	1	353	161	514	1,743	297	211	75	31	4	208	530	3,240
Oct	187	329	1	330	95	425	1,786	289	205	74	32	4	175	490	3,177
Nov	147	295	1	296	115	411	1,773	272	207	81	31	4	210	533	3,136
Dec	165	302	2	304	107	411	1,745	267	177	87	37	4	196	502	3,090
YTD	1,761	3,905	14	3,919	1,417	5,336	21,100	3,418	2,496	937	414	48	2,541	6,435	38,050

2007															
Month	Hydro	Lignite			NG	Condensate	Crude Oil				Grand Total				
		EGAT		NON EGAT			Total	Benjamas	Sirikit	Tantawan		Fang	Others	Total	
		Mae-Moh	Krabi												
Jan	167	330	2	332	111	443	1,805	289	185	86	38	4	196	510	3,214
Feb	172	303	3	306	126	432	1,652	254	164	79	31	4	236	513	3,023
Ma	187	321	3	324	119	443	1,912	300	187	90	35	4	294	611	3,453
Apr	162	337		337	77	414	1,833	285	179	88	32	4	275	579	3,273
May	120	320		320	62	382	2,005	308	182	83	31	4	264	563	3,378
Jun	150	312		312	74	386	1,936	296	174	83	28	4	271	560	3,328
Jul	156	389		389	90	479	1,981	320	185	93	22	4	267	571	3,507
Aug	143	351		351	74	425	1,991	325	170	86	23	4	259	542	3,426
Sep	117	347		347	47	394	1,846	289	149	83	30	4	279	545	3,191
Oct	97	309		309	33	342	1,913	310	157	86	40	4	256	542	3,204
Nov	122	349		349	46	395	1,809	298	187	83	40	4	281	596	3,220
Dec	169	326		326	54	380	1,870	308	184	84	35	5	282	590	3,317
YTD	1,764	3,992	7	3,999	913	4,912	22,553	3,581	2,103	1,024	384	48	3,156	6,716	39,526

Table 1.1-2M Primary Commercial Energy Production (Cont.)

Unit : ktoe

2008															
Month	Hydro	Lignite			NG	Condensate	Crude Oil				Grand Total				
		EGAT		NON EGAT			Total	Benjamas	Sirikit	Tantawan		Fang	Others	Total	
		Mae-Moh	Krabi												
Jan	164	313		313	68	381	1,939	304	179	79	28	5	295	586	3,374
Feb	158	328		328	39	367	1,813	286	168	76	25	4	260	534	3,158
Mar	183	322	1	323	63	386	1,988	303	179	95	29	5	269	576	3,436
Apr	183	360		360	82	442	2,080	327	193	87	25	4	260	571	3,603
May	120	369	1	370	71	441	2,286	363	187	90	24	5	284	590	3,800
Jun	117	360	2	362	110	472	2,205	353	193	92	24	5	277	591	3,738
Jul	115	304	1	305	94	399	2,242	322	193	94	26	5	269	586	3,664
Aug	97	328	1	329	80	409	2,261	367	199	92	27	5	293	617	3,751
Sep	86	342		342	56	398	2,105	339	193	75	14	5	336	623	3,551
Oct	83	329		329	47	376	2,160	362	199	90	35	5	309	638	3,619
Nov	95	333		333	76	409	1,880	258	193	88	34	6	329	650	3,292
Dec	139	379		379	17	396	2,024	284	174	90	34	6	343	648	3,491
YTD	1,540	4,067	6	4,073	803	4,876	24,984	3,867	2,250	1,048	326	59	3,521	7,203	42,470

2009															
Month	Hydro	Lignite			NG	Condensate	Crude Oil				Grand Total				
		EGAT		NON EGAT			Total	Benjamas	Sirikit	Tantawan		Fang	Others	Total	
		Mae-Moh	Krabi												
Jan	165	364		364	41	405	2,194	313	182	91	38	5	334	652	3,729
Feb	158	291		291	60	351	1,895	290	153	82	34	5	298	572	3,266
Mar	180	311		311	92	403	2,314	348	198	88	37	5	365	693	3,938
Apr	159	304		304	95	399	2,064	293	112	91	14	5	432	654	3,569
May	120	350		350	68	418	2,396	325	30	94	16	5	508	654	3,913
Jun	82	356		356	77	433	2,228	327	110	84	23	5	411	633	3,703
Jul	82	364		364	78	442	2,207	327	111	91	26	5	410	643	3,701
Aug	129	317		317	95	412	2,235	334	123	89	26	6	401	644	3,754
Sep	87	311		311	55	366	2,242	309	108	87	25	5	339	565	3,569
Oct	105	283		283	48	331	2,298	324	88	88	28	6	369	579	3,637
Nov	115	307		307	50	357	2,283	296	113	86	24	5	432	660	3,711
Dec	162	316		316	85	401	2,462	326	123	93	18	5	504	744	4,095
YTD	1,543	3,872		3,872	843	4,715	26,819	3,811	1,451	1,064	309	62	4,802	7,688	44,576

Table 1.1-2M Primary Commercial Energy Production (Cont.)

Unit : ktoe

2010															
Month	Hydro	Lignite			NG		Condensate		Crude Oil				Grand Total		
		EGAT		Total	NON EGAT	Total	Benjamas	Sirikit	Tantawan	Fang	Others	Total			
		Mae-Moh	Krabi										Total		
Jan	137	336		336	77	413	2,435	320	115	100	18	5	398	636	3,941
Feb	141	300		300	110	410	2,248	287	102	86	22	5	373	588	3,674
Mar	170	333		333	97	430	2,776	361	125	93	23	5	418	665	4,402
Apr	114	350		350	90	440	2,494	317	119	93	15	5	390	621	3,986
May	115	381		381	80	461	2,637	339	119	93	17	5	437	671	4,223
Jun	92	308		308	96	404	2,713	340	120	93	15	5	447	680	4,229
Jul	74	316		316	67	383	2,621	354	122	97	12	5	456	692	4,124
Aug	75	320		320	58	378	2,714	342	112	95	13	5	462	687	4,196
Sep	54	323		323	54	377	2,661	331	102	85	15	4	447	654	4,077
Oct	38	322		322	72	394	2,801	355	100	79	13	5	412	609	4,197
Nov	73	339		339	63	402	2,659	334	98	89	14	4	381	586	4,054
Dec	100	332		332	114	446	2,725	344	97	85	16	5	358	561	4,176
YTD	1,185	3,960		3,960	978	4,938	31,484	4,026	1,331	1,088	193	58	4,975	7,644	49,277

Table 1.1-3M Primary Commercial Energy Import (Net) (Physical Unit)

2006												
Month	Coal (Ton)	Crude Oil (M. Litres)	Condensate (BBLs)	Petroleum Products (Million Litres)				Electricity (GWh)		NG & LNG (MMSCF)		Total
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG	Others	NG	LNG	
Jan	678,579	3,796		-177	-218	-30	10	-191	203			-402
Feb	665,236	2,905		-150	-139	-119	-14	-104	129			-397
Mar	965,313	4,200		-131	-101	-62	64	-92	33			-289
Apr	684,081	3,519		-201	3	15	86	-117	2			-212
May	1,118,729	4,146		-193	-143	-3	51	-99	48			-340
Jun	1,090,706	3,598	48	-157	-192	-15	-15	-73	119			-334
Jul	553,040	3,862	51	-184	-313	-129	45	-65	37			-609
Aug	1,040,253	4,027	24	-190	-348	-186	-80	-56	168			-691
Sep	1,130,491	3,650		-163	-368	-148	-65	-53	127			-671
Oct	1,110,899	3,837		-119	-292	-46	-52	-62	91			-481
Nov	1,132,689	2,899		-151	-314	-159	-116	-57	48			-750
Dec	1,044,779	3,887		-106	-149	-135	-229	-98	13			-704
YTD	11,214,797	44,328	124	-1,922	-2,576	-1,017	-314	-1,067	1,017			-5,879
												317,705
2007												
Month	Coal (Ton)	Crude Oil (M. Litres)	Condensate (BBLs)	Petroleum Products (Million Litres)				Electricity (GWh)		NG & LNG (MMSCF)		Total
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG	Others	NG	LNG	
Jan	1,025,088	3,168		-127	-156	-84	-128	-66	82			-478
Feb	888,193	4,068		-123	-115	-36	-134	-100	60			-448
Mar	1,087,642	3,493		-89	-141	-8	-152	-50	-179			-619
Apr	1,107,507	3,954		-149	-119	-11	-77	-54	110			-300
May	1,316,799	3,741		-173	-183	-132	-251	-59	62			-735
Jun	1,206,179	3,343		-94	-205	-38	-157	-37	24			-508
Jul	1,131,101	3,826	51	-63	-164	-24	-113	-30	-3			-397
Aug	1,674,783	4,467		-119	-213	-37	-234	-29	94			-538
Sep	1,272,497	3,279		-116	-235	-9	-113	-19	6			-487
Oct	1,114,667	3,505		-132	-336	-5	-108	-29	119			-492
Nov	1,334,852	3,244		-73	-359	-7	-181	-22	67			-574
Dec	1,254,489	3,564		-159	-271	-53	-294	-19	69			-727
YTD	14,413,796	43,651	51	-1,417	-2,498	-443	-1,942	-514	511			-6,304
												331,002

Table 1.1-3M Primary Commercial Energy Import (Net) (Physical Unit) (Cont.)

2008													
Month	Coal (Ton)	Crude Oil (M. Litres)	Condensate (BBLs)	Petroleum Products (Million Litres)					Electricity (GWh)	NG & LNG (MMSCF)			
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG		Others	Total	NG	LNG
Jan	1,309,804	4,052		-191	-259	-91	-285	-16	137	-706	344	24,255	24,255
Feb	1,483,336	4,065		-138	-147	-99	-285	-12	-41	-721	172	26,922	26,922
Mar	1,322,245	4,462		-147	-297	-109	-262		136	-679	156	30,159	30,159
Apr	1,536,052	3,706		-205	-176	-115	-61	40	-2	-519	264	20,743	20,743
May	1,510,234	4,126		-83	-374	-117	-321	-3	-34	-933	168	25,698	25,698
Jun	1,245,740	3,456		-188	-315	-56	-240	-0	71	-728	228	24,875	24,875
Jul	1,363,819	3,481		-177	-429	-115	-206	204	-8	-732	279	26,916	26,916
Aug	1,252,980	3,979		-129	-405	-162	-387	126	-114	-1,070	275	27,491	27,491
Sep	1,310,956	3,070		-63	-278	-61	-275	128	-6	-555	331	27,422	27,422
Oct	1,383,522	3,886		-33	-336	-134	-419	165	-150	-907	271	26,526	26,526
Nov	1,008,607	2,485		-34	-328	-111	-206	168	-240	-750	184	22,168	22,168
Dec	1,251,705	3,789		-91	-372	-239	-424	-2	-67	-1,195	139	20,072	20,072
YTD	15,979,001	44,556		-1,478	-3,717	-1,407	-3,370	798	-320	-9,495	2,812	303,246	303,246

2009													
Month	Coal (Ton)	Crude Oil (M. Litres)	Condensate (BBLs)	Petroleum Products (Million Litres)					Electricity (GWh)	NG & LNG (MMSCF)			
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG		Others	Total	NG	LNG
Jan	893,980	3,420		-134	-259	-101	-400	35	-48	-907	171	10,029	10,029
Feb	1,136,571	2,701		-46	-25	-105	-324	-2	-55	-556	108	21,086	21,086
Mar	1,320,589	4,642		-65	-43	-54	-327	41	27	-421	134	20,698	20,698
Apr	1,590,725	3,755		-125	-350	-78	-328	24	-96	-952	112	23,966	23,966
May	1,465,033	3,707		-120	-596	-197	-278	121	-49	-1,120	150	28,009	28,009
Jun	1,234,669	4,117		-158	-270	-100	-500	79	-110	-1,060	184	27,876	27,876
Jul	1,554,504	3,377		-144	-329	-205	-329	124	-138	-1,022	248	26,711	26,711
Aug	1,448,911	3,538		-153	-564	-152	-294	166	-75	-1,072	277	29,306	29,306
Sep	1,678,140	4,146		-109	-466	-160	-328	164	-87	-986	207	28,028	28,028
Oct	2,043,748	3,747		-115	-635	-172	-193	204	-181	-1,091	275	30,219	30,219
Nov	847,676	3,859		-87	-364	-120	-224	204	-167	-758	337	28,312	28,312
Dec	1,174,294	3,227		-81	-510	-174	-269	207	-142	-969	279	19,307	19,307
YTD	16,388,840	44,237		-1,337	-4,411	-1,618	-3,795	1,367	-1,121	-10,915	2,483	293,548	293,548

Table 1.1-3M Primary Commercial Energy Import (Net) (Physical Unit) (Cont.)

2010													
Month	Coal (Ton)	Crude Oil (M. Litres)	Condensate (BBLs)	Petroleum Products (Million Litres)					Electricity (GWh)		NG & LNG (MMSCF)		
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG	Others	Total	NG	LNG	Total
Jan	1,260,121	3,635		-86	-198	-98	-230	306	-8	-314	166	23,739	23,739
Feb	1,339,828	3,706		-79	-261	-59	-273	202	-66	-536	145	27,418	27,418
Mar	1,267,862	3,448		-71	-301	-103	-278	229	113	-410	572	20,953	20,953
Apr	1,925,201	4,400		-134	-360	-152	-292	228	11	-698	745	27,119	27,119
May	1,419,128	3,488		-158	-413	-69	-273	324	51	-537	794	28,961	28,961
Jun	1,361,404	4,046		-152	-487	-213	-268	237	76	-806	791	26,110	26,110
Jul	1,133,692	3,627		-149	-544	-133	-246	165	-20	-928	803	27,982	27,982
Aug	1,040,141	3,903		-109	-618	-312	-171	247	36	-927	772	26,361	26,361
Sep	1,612,568	3,570		-135	-731	-154	-282	247	52	-1,003	782	27,674	27,674
Oct	1,600,902	3,583		-70	-581	-286	-246	270	159	-753	797	26,285	26,285
Nov	1,327,558	3,926		-73	-474	-145	-315	263	-184	-928	487	23,715	23,715
Dec	1,615,799	4,293		-125	-477	-105	-260	288	11	-667	424	25,515	25,515
YTD	16,904,205	45,627		-1,342	-5,444	-1,827	-3,133	3,008	232	-8,506	7,277	311,830	311,830

Table 1.1-4M Primary Commercial Energy Import (Net)

Unit : ktoe

2006															
Month	Coal Import	Crude Oil	Condensate	Petroleum Products (Million Litres)							Electricity	NG	Grand Total		
				NAP.& OTHS	Gasoline	Kerosene	HSD	LSD	JP.	Fuel Oil				LPG	Total
Jan	424	3,264		151	-132		-188		-24	10	-120	-303	32	528	3,945
Feb	415	2,498		109	-112		-120		-97	-13	-66	-299	31	528	3,173
Mar	603	3,612		56	-98	-12	-87		-38	60	-58	-177	39	709	4,786
Apr	427	3,027		23	-150		3		12	81	-74	-105	35	620	4,004
May	698	3,566		59	-144		-123		-3	48	-63	-226	25	719	4,782
Jun	681	3,095		88	-117		-166		-12	-14	-46	-267	38	694	4,241
Jul	345	3,321		28	-137		-270		-105	42	-41	-483	43	676	3,902
Aug	649	3,464		137	-142	-4	-300		-148	-75	-35	-567	44	705	4,295
Sep	706	3,139		98	-121	-8	-317		-113	-61	-33	-555	43	674	4,007
Oct	693	3,284		71	-88		-252		-38	-49	-39	-395	38	661	4,281
Nov	707	2,493		53	-112	-4	-271		-127	-109	-36	-606	41	688	3,323
Dec	652	3,343		23	-79		-129		-111	-215	-62	-573	33	604	4,059
YTD	7,000	38,122		896	-1,432	-28	-2,220		-804	-295	-672	-4,555	443	7,806	48,816

2007															
Month	Coal Import	Crude Oil	Condensate	Petroleum Products (Million Litres)							Electricity	NG	Grand Total		
				NAP.& OTHS	Gasoline	Kerosene	HSD	LSD	JP.	Fuel Oil				LPG	Total
Jan	640	2,724		86	-94		-134		-68	-120	-41	-371	29	628	3,650
Feb	554	3,498		54	-92	-8	-99		-21	-126	-63	-355	24	602	4,323
Mar	679	3,004		-108	-66		-121		-7	-143	-32	-477	33	726	3,965
Apr	691	3,401		90	-111	-4	-103		-5	-73	-34	-240	31	630	4,513
May	822	3,217		46	-129		-157		-108	-236	-37	-621	34	722	4,174
Jun	753	2,875		18	-70	-4	-177		-27	-148	-23	-431	29	704	3,930
Jul	706	3,290		8	-47	-6	-142		-14	-106	-19	-326	36	679	4,385
Aug	1,045	3,842		70	-89	-4	-184		-26	-220	-19	-472	29	683	5,127
Sep	794	2,820		4	-86	-4	-203		-4	-106	-12	-411	23	711	3,937
Oct	696	3,014		89	-99		-290		-4	-102	-18	-424	43	732	4,061
Nov	833	2,790		50	-55		-309		-6	-171	-14	-505	37	693	3,848
Dec	783	3,065		51	-118		-234		-43	-277	-12	-633	36	624	3,875
YTD	8,997	37,540		459	-1,056	-30	-2,154		-332	-1,828	-324	-5,265	384	8,133	49,789

Table 1.1-4M Primary Commercial Energy Import (Net) (Cont.)

Unit : ktoe

2008															
Month	Coal Import	Crude Oil	Condensate	Petroleum Products (Million Litres)							Electricity	NG	Grand Total		
				NAP.& OTHS	Gasoline	Kerosene	HSD	LSD	JP.	Fuel Oil				LPG	Total
Jan	818	3,484		97	-143		-223		-75	-268	-10	-622	29	596	4,305
Feb	926	3,496		-35	-103		-127		-81	-268	-7	-621	15	661	4,477
Mar	825	3,838		98	-109	-8	-256		-81	-247		-603	13	741	4,814
Apr	959	3,188		-2	-153		-152		-94	-57	25	-433	22	510	4,246
May	943	3,548		-26	-62	-41	-323		-54	-303	-2	-811	14	631	4,325
Jun	778	2,972		53	-140		-272		-46	-226		-631	19	611	3,749
Jul	851	2,994		-6	-132		-370		-94	-193	128	-667	24	661	3,863
Aug	782	3,422		-67	-96	-40	-349		-93	-364	79	-930	23	675	3,972
Sep	818	2,640		-5	-47		-239		-50	-259	81	-519	28	674	3,641
Oct	864	3,342		-112	-25		-290		-109	-394	104	-826	23	652	4,055
Nov	630	2,137		-162	-25		-283		-91	-193	106	-648	16	545	2,680
Dec	781	3,259		-50	-68		-321		-195	-399	-1	-1,034	12	493	3,511
YTD	9,974	38,318		-217	-1,101	-89	-3,204		-1,062	-3,172	503	-8,342	240	7,451	47,641

2009															
Month	Coal Import	Crude Oil	Condensate	Petroleum Products (Million Litres)							Electricity	NG	Grand Total		
				NAP.& OTHS	Gasoline	Kerosene	HSD	LSD	JP.	Fuel Oil				LPG	Total
Jan	558	2,942		-36	-99		-224		-83	-376	22	-796	15	246	2,965
Feb	709	2,323		-41	-34		-21		-86	-305	-1	-488	9	518	3,071
Mar	824	3,992		20	-48		-37		-44	-308	26	-391	11	509	4,945
Apr	993	3,229		-71	-93		-302		-63	-309	15	-823	10	589	3,998
May	914	3,188		-52	-90		-514		-161	-262	76	-1,003	13	688	3,800
Jun	771	3,541		-82	-118	-5	-233		-77	-471	49	-937	16	685	4,076
Jul	970	2,904		-103	-107		-284		-168	-310	78	-894	21	656	3,657
Aug	904	3,043		-56	114		-486		-124	-277	105	-952	24	720	3,739
Sep	1,047	3,566		-65	-82		-402		-130	-309	103	-885	18	689	4,435
Oct	1,276	3,223		-135	-85		-548		-141	-182	129	-962	23	742	4,302
Nov	529	3,318		-124	-65	-5	-314		-93	-211	129	-683	29	696	3,889
Dec	733	2,775		-106	-61	-5	-439		-137	-253	130	-871	24	474	3,135
YTD	10,230	38,044		-850	-996	-16	-3,802		-1,307	-3,572	861	-9,682	212	7,212	46,016

Table 1.1-4M Primary Commercial Energy Import (Net) (Cont.)

Unit : ktoe

2010															
Month	Coal Import	Crude Oil	Condensate	Petroleum Products (Million Litres)								Electricity	NG	Grand Total	
				NAP.& OTHS	Gasoline	Kerosene	HSD	LSD	JP.	Fuel Oil	LPG				Total
Jan	787	3,126		-6	-64		-170		-80	-217	193	-344	14	583	4,166
Feb	836	3,187		-49	-59		-225		-48	-257	128	-510	12	674	4,199
Mar	791	2,965		84	-53		-259		-84	-262	144	-430	49	515	3,890
Apr	1,202	3,784		8	-100		-310		-124	-275	144	-657	63	666	5,058
May	886	3,000		38	-118	-4	-356		-52	-257	204	-545	68	712	4,121
Jun	850	3,480		57	-113	-19	-420		-155	-252	149	-753	67	642	4,286
Jul	708	3,119		-15	-111	-19	-469		-90	-232	104	-832	68	688	3,751
Aug	649	3,357		27	-81	-20	-533		-234	-161	156	-846	66	648	3,874
Sep	1,007	3,070		39	-101	-91	-630		-35	-265	155	-928	67	680	3,896
Oct	999	3,082		118	-52	-132	-501		-102	-231	170	-730	68	646	4,065
Nov	829	3,376		-137	-54	-51	-409		-67	-297	166	-849	42	583	3,981
Dec	1,009	3,692		8	-93	-11	-411		-75	-244	182	-644	36	627	4,720
YTD	10,551	39,239		173	-1,000	-348	-4,693		-1,145	-2,949	1,895	-8,067	620	7,662	50,005

Table 1.1-5M Primary Commercial Energy Consumption (Physical Unit)

2006							
Month	Hydro/ Import (GWh)	Lignite (Ton)			NG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Ton)
		EGAT	Others	Total			
		Mae-Moh					
Jan	1,008	1,331,766	286,003	1,617,769	94,162	3,515	784,057
Feb	1,052	1,145,746	317,260	1,463,006	87,452	3,427	800,543
Mar	1,209	1,280,465	359,188	1,639,653	103,081	3,766	851,484
Apr	1,075	1,295,892	251,798	1,547,690	94,491	3,471	711,635
May	834	1,462,749	265,773	1,728,522	101,945	3,553	838,608
Jun	957	1,427,571	260,844	1,688,415	99,559	3,452	812,381
Jul	1,043	1,399,882	260,006	1,659,888	100,579	3,394	856,648
Aug	1,188	1,292,663	258,743	1,551,406	101,263	3,346	1,006,500
Sep	1,216	1,361,371	216,584	1,577,955	98,319	3,152	1,026,234
Oct	1,287	1,307,179	168,400	1,475,579	99,537	3,217	1,145,211
Nov	1,143	1,242,172	162,416	1,404,588	100,123	3,312	1,151,643
Dec	1,134	1,267,918	229,731	1,497,649	95,577	3,445	1,229,858
YTD	13,147	15,815,374	3,036,746	18,852,120	1,176,088	41,051	11,214,800

2007							
Month	Hydro/ Import (GWh)	Lignite (Ton)			NG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Ton)
		EGAT	Others	Total			
		Mae-Moh					
Jan	1,092	1,314,931	162,436	1,477,367	98,987	3,488	1,336,755
Feb	1,058	1,209,466	171,839	1,381,305	91,714	3,260	1,156,021
Mar	1,235	1,323,731	173,758	1,497,489	107,330	3,640	1,225,674
Apr	1,102	1,084,906	396,243	1,481,149	100,187	3,411	1,177,802
May	943	1,265,741	150,468	1,416,209	110,948	3,404	1,111,781
Jun	1,014	1,281,557	129,667	1,411,224	107,425	3,403	1,140,853
Jul	1,130	1,491,570	141,709	1,633,279	108,239	3,297	1,228,538
Aug	981	1,493,135	202,103	1,695,238	108,798	3,429	1,364,789
Sep	805	1,381,626	121,568	1,503,194	104,017	3,302	1,130,312
Oct	943	1,293,124	202,545	1,495,669	107,620	3,475	1,204,470
Nov	990	1,328,185	136,701	1,464,886	101,785	3,397	1,148,552
Dec	1,181	1,343,078	170,342	1,513,420	101,471	3,526	1,188,252
YTD	12,471	15,811,050	2,159,379	17,970,429	1,248,521	41,031	14,413,800

2008							
Month	Hydro/ Import (GWh)	Lignite (Ton)			NG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Ton)
		EGAT	Others	Total			
		Mae-Moh					
Jan	1,083	1,317,911	155,859	1,473,770	103,163	3,540	1,469,823
Feb	886	1,291,476	200,731	1,492,207	100,668	3,332	1,345,107
Mar	980	1,354,518	238,846	1,593,364	111,051	3,641	1,382,163
Apr	1,088	1,414,483	183,093	1,597,576	105,393	3,593	1,440,553
May	711	1,491,436	188,339	1,679,775	118,699	3,387	1,389,090
Jun	759	1,372,230	230,523	1,602,753	114,593	3,088	1,339,820
Jul	799	1,262,475	191,082	1,453,557	118,136	3,044	1,349,033
Aug	711	1,334,370	185,890	1,520,260	119,490	3,150	1,307,357
Sep	719	1,386,029	200,477	1,586,506	113,069	3,012	1,329,979
Oct	648	1,337,526	180,396	1,517,922	114,394	3,229	1,343,548
Nov	613	1,366,674	113,379	1,480,053	98,638	3,107	1,191,295
Dec	765	1,478,337	55,472	1,533,809	102,443	3,408	1,091,230
YTD	9,763	16,407,465	2,124,087	18,531,552	1,319,738	39,532	15,978,998

Table 1.1-5M Primary Commercial Energy Consumption (Physical Unit) (Cont.)

2009							
Month	Hydro/ Import (GWh)	Lignite (Ton)			NG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Ton)
		EGAT	Others	Total			
		Mae-Moh					
Jan	914	1,461,488	111,470	1,572,958	99,315	3,565	1,265,748
Feb	824	1,144,939	157,131	1,302,070	98,170	3,095	1,173,496
Mar	945	1,255,136	247,544	1,502,680	114,859	3,469	1,237,643
Apr	831	1,313,460	234,662	1,548,122	107,953	3,294	1,479,722
May	689	1,370,259	183,435	1,553,694	125,502	3,435	1,428,055
Jun	552	1,463,154	194,639	1,657,793	118,513	3,170	1,522,542
Jul	616	1,451,536	165,359	1,616,895	116,521	3,277	1,485,283
Aug	861	1,304,125	179,357	1,483,482	120,255	3,262	1,383,420
Sep	599	1,243,891	134,061	1,377,952	119,232	3,161	1,464,044
Oct	752	1,287,741	41,449	1,329,190	123,725	3,382	1,297,766
Nov	854	1,227,355	193,949	1,421,304	121,197	3,276	1,278,906
Dec	1,012	1,295,181	199,472	1,494,653	119,472	3,680	1,372,214
YTD	9,448	15,818,265	2,042,529	17,860,794	1,384,714	40,065	16,388,840

2010							
Month	Hydro/ Import (GWh)	Lignite (Ton)			NG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Ton)
		EGAT	Others	Total			
		Mae-Moh					
Jan	784	1,363,194	171,521	1,534,715	122,784	3,442	1,299,762
Feb	783	1,161,660	144,184	1,305,844	118,896	3,346	1,412,328
Mar	1,341	1,370,186	189,422	1,559,608	133,909	3,677	1,531,533
Apr	1,258	1,427,231	161,905	1,589,136	128,586	3,358	1,489,214
May	1,314	1,482,298	165,206	1,647,504	136,239	3,368	1,482,375
Jun	1,206	1,257,482	188,479	1,445,961	136,516	3,295	1,462,704
Jul	1,138	1,278,053	155,133	1,433,186	134,618	3,415	1,417,727
Aug	1,112	1,370,701	134,749	1,505,450	136,787	3,314	1,423,109
Sep	1,028	1,219,748	132,236	1,351,984	135,942	3,215	1,422,210
Oct	967	1,340,644	61,942	1,402,586	140,259	3,292	1,440,656
Nov	816	1,357,249	290,589	1,647,838	131,900	3,470	1,303,760
Dec	875	1,375,750	222,319	1,598,069	136,408	3,635	1,218,822
YTD	12,624	16,004,196	2,017,685	18,021,881	1,592,846	40,827	16,904,200

Table 1.1-6M Primary Commercial Energy Consumption

Unit : ktoe

Unit : Kwh

2006								
Month	Hydro/ Import (GWh)	Lignite			NG	Petroleum	Imported Coal	Total
		EGAT	Others	Total				
		Mae-Moh						
Jan	171	330	136	466	2,314	2,891	489	6,331
Feb	182	284	151	435	2,149	2,839	500	6,105
Mar	207	317	171	488	2,533	3,111	531	6,870
Apr	182	321	120	441	2,322	2,862	444	6,251
May	144	362	127	489	2,505	2,923	523	6,584
Jun	152	354	124	478	2,446	2,846	507	6,429
Jul	163	347	124	471	2,471	2,781	535	6,421
Aug	192	320	123	443	2,488	2,729	628	6,480
Sep	199	337	103	440	2,416	2,558	641	6,254
Oct	225	324	80	404	2,446	2,605	715	6,395
Nov	188	308	77	385	2,460	2,688	719	6,440
Dec	198	314	110	424	2,348	2,796	768	6,534
YTD	2,204	3,917	1,449	5,366	28,896	33,627	7,000	77,093

2007								
Month	Hydro/ Import (GWh)	Lignite			NG	Petroleum	Imported Coal	Total
		EGAT	Others	Total				
		Mae-Moh						
Jan	196	326	77	403	2,432	2,832	830	6,693
Feb	196	300	82	382	2,253	2,652	715	6,198
Mar	220	328	83	411	2,637	2,966	758	6,992
Apr	193	269	189	458	2,462	2,778	728	6,619
May	154	314	72	386	2,726	2,763	683	6,712
Jun	179	317	62	379	2,639	2,762	702	6,661
Jul	192	369	68	437	2,659	2,663	759	6,710
Aug	172	370	96	466	2,673	2,768	854	6,933
Sep	140	342	58	400	2,556	2,676	696	6,468
Oct	140	320	97	417	2,644	2,819	743	6,763
Nov	159	329	65	394	2,501	2,745	783	6,582
Dec	205	333	81	414	2,493	2,853	746	6,711
YTD	2,148	3,916	1,030	4,946	30,676	33,277	8,997	80,044

2008								
Month	Hydro/ Import (GWh)	Lignite			NG	Petroleum	Imported Coal	Total
		EGAT	Others	Total				
		Mae-Moh						
Jan	193	326	74	400	2,535	2,858	917	6,903
Feb	173	320	96	416	2,473	2,687	840	6,589
Mar	196	336	114	450	2,729	2,950	863	7,188
Apr	205	350	87	437	2,590	2,921	899	7,052
May	134	369	90	459	2,916	2,725	867	7,101
Jun	136	340	110	450	2,816	2,469	836	6,707
Jul	139	313	91	404	2,903	2,418	842	6,706
Aug	120	331	89	420	2,936	2,509	816	6,801
Sep	114	343	96	439	2,778	2,395	830	6,556
Oct	106	331	86	417	2,811	2,570	839	6,743
Nov	111	339	54	393	2,424	2,478	744	6,150
Dec	151	366	26	392	2,517	2,733	681	6,474
YTD	1,780	4,064	1,013	5,077	32,426	31,714	9,974	80,971

Table 1.1-6M Primary Commercial Energy Consumption (Cont.)

Unit : ktoe

Unit : Rupee

2009								
Month	Hydro/ Import (GWh)	Lignite			NG	Petroleum	Imported Coal	Total
		EGAT	Others	Total				
		Mae-Moh						
Jan	180	362	53	415	2,440	2,866	790	6,691
Feb	167	284	75	359	2,412	2,486	732	6,156
Mar	191	311	118	429	2,822	2,782	773	6,997
Apr	169	325	112	437	2,652	2,642	924	6,824
May	133	339	87	426	3,084	2,757	891	7,291
Jun	98	362	93	455	2,912	2,534	950	6,949
Jul	103	360	79	439	2,863	2,614	927	6,946
Aug	153	323	86	409	2,955	2,600	864	6,981
Sep	105	308	64	372	2,930	2,521	914	6,842
Oct	128	319	20	339	3,040	2,707	810	7,024
Nov	144	304	93	397	2,978	2,616	798	6,933
Dec	186	321	95	416	2,935	2,951	857	7,345
YTD	1,755	3,918	974	4,892	34,022	32,075	10,230	82,974

2010								
Month	Hydro/ Import (GWh)	Lignite			NG	Petroleum	Imported Coal	Total
		EGAT	Others	Total				
		Mae-Moh						
Jan	151	338	82	420	3,017	2,749	811	7,148
Feb	153	288	69	357	2,921	2,678	882	6,991
Mar	219	339	90	429	3,290	2,953	956	7,847
Apr	177	354	77	431	3,159	2,685	930	7,382
May	183	367	79	446	3,347	2,693	925	7,594
Jun	159	311	90	401	3,354	2,625	913	7,452
Jul	142	317	74	391	3,308	2,724	885	7,450
Aug	141	340	64	404	3,361	2,633	888	7,427
Sep	121	302	63	365	3,340	2,552	888	7,266
Oct	106	332	30	362	3,446	2,613	899	7,426
Nov	115	336	139	475	3,241	2,765	814	7,410
Dec	136	341	106	447	3,352	2,894	761	7,590
YTD	1,805	3,964	962	4,926	39,136	32,563	10,551	88,981

Table 1.2-1M Final Modern Energy Consumption (Physical Unit)

2006														
Month	Solid Fossil Fuel (Thousand Tons)			Petroleum Products (Million Litres)					Electricity* (GWh)		NG in Industry (MMSCF)			
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel oil	Total	Energy	NPC	Total
Jan	580	286	866	386	239	364	411	2	1,616	363	3,381	9,825	1,076	9,785
Feb	627	317	945	362	214	331	369	2	1,528	314	3,120	9,909	948	8,895
Mar	653	359	1,012	400	245	378	396	2	1,724	364	3,509	11,428	1,124	10,044
Apr	535	252	787	372	238	371	372	2	1,567	350	3,272	10,637	1,058	8,944
May	546	266	812	411	227	380	365	2	1,629	330	3,344	11,244	1,065	10,465
Jun	575	261	836	406	217	375	347	2	1,477	359	3,182	11,301	1,024	9,773
Jul	550	260	810	443	217	379	361	2	1,441	317	3,161	11,279	1,045	9,892
Aug	542	259	801	469	211	381	362	2	1,438	341	3,203	11,268	1,098	10,645
Sep	589	217	806	456	203	380	353	2	1,371	314	3,079	11,125	1,003	9,887
Oct	640	168	808	464	210	398	372	2	1,432	305	3,183	11,065	1,046	10,676
Nov	621	162	783	443	213	407	389	2	1,536	290	3,280	11,054	1,025	10,834
Dec	807	230	1,037	461	222	414	420	2	1,592	308	3,419	10,655	1,113	10,587
YTD	7,265	3,037	10,302	5,074	2,656	4,559	4,519	20	18,350	3,956	39,134	130,789	12,624	120,427

2007														
Month	Solid Fossil Fuel (Thousand Tons)			Petroleum Products (Million Litres)					Electricity* (GWh)		NG in Industry (MMSCF)			
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel oil	Total	Energy	NPC	Total
Jan	841	162	1,004	467	210	403	441	2	1,644	316	3,482	10,203	1,142	12,527
Feb	705	172	876	430	200	373	414	1	1,501	314	3,234	10,041	852	11,313
Mar	770	174	944	471	216	418	429	2	1,718	321	3,575	12,028	1,007	11,806
Apr	722	396	1,118	441	211	403	406	1	1,573	306	3,340	11,348	1,138	11,890
May	586	150	737	471	209	396	413	2	1,561	302	3,354	11,803	1,302	12,882
Jun	572	130	702	475	215	403	376	2	1,574	292	3,338	11,973	1,455	12,233
Jul	729	142	870	486	217	400	396	1	1,498	291	3,290	11,817	1,416	11,882
Aug	928	202	1,130	514	226	412	411	1	1,555	207	3,326	11,835	1,335	12,562
Sep	600	122	722	495	219	374	386	2	1,436	263	3,176	11,678	1,275	11,881
Oct	671	203	874	519	233	387	400	2	1,499	329	3,369	11,663	1,290	13,875
Nov	727	137	864	524	226	363	420	1	1,533	276	3,344	11,205	1,250	13,516
Dec	814	170	984	520	241	380	439	1	1,610	224	3,415	11,119	1,298	13,529
YTD	8,665	2,159	10,825	5,812	2,625	4,712	4,932	18	18,702	3,441	40,242	136,712	14,760	149,896

Table 1.2-1M Final Modern Energy Consumption (Physical Unit) (Cont.)

2008														
Month	Solid Fossil Fuel (Thousand Tons)			Petroleum Products (Million Litres)					Electricity* (GWh)		NG in Industry (MMSCF)			
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel oil	Total	Energy	NPC	Total
Jan	891	156	1,047	545	232	370	457	2	1,628	303	3,538	11,033	1,243	14,083
Feb	824	201	1,025	516	225	354	441	1	1,521	250	3,308	10,963	1,172	13,716
Mar	809	239	1,048	548	230	374	433	1	1,695	251	3,533	12,184	1,308	14,889
Apr	859	183	1,043	525	229	374	410	1	1,612	357	3,509	11,777	1,264	14,637
May	870	188	1,058	571	216	362	397	2	1,548	267	3,364	12,286	1,250	14,651
Jun	882	231	1,113	557	204	354	377	1	1,361	230	3,086	12,028	1,248	14,005
Jul	891	191	1,082	620	208	351	371	1	1,246	246	3,043	12,320	1,383	16,162
Aug	833	186	1,019	609	233	355	369	1	1,325	253	3,145	12,315	1,243	15,499
Sep	821	200	1,021	596	234	334	336	1	1,276	227	3,005	11,649	1,340	15,677
Oct	804	180	985	619	249	351	387	1	1,394	227	3,228	11,966	1,402	16,623
Nov	788	113	902	566	254	344	336	1	1,402	203	3,107	10,564	887	13,442
Dec	772	55	828	554	294	388	322	1	1,627	222	3,408	9,785	1,255	14,146
YTD	10,045	2,124	12,169	6,828	2,809	4,311	4,636	16	17,635	3,038	39,274	138,870	14,995	177,530

2009														
Month	Solid Fossil Fuel (Thousand Tons)			Petroleum Products (Million Litres)					Electricity* (GWh)		NG in Industry (MMSCF)			
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel oil	Total	Energy	NPC	Total
Jan	754	111	865	558	287	378	396	1	1,718	218	3,556	9,619	1,442	15,720
Feb	723	157	880	489	255	334	365	1	1,439	212	3,095	10,235	1,259	15,315
Mar	688	248	935	559	289	373	405	2	1,624	214	3,465	11,909	1,351	17,338
Apr	915	235	1,149	531	277	357	344	1	1,586	195	3,292	11,262	1,412	16,667
May	904	183	1,087	557	284	368	349	1	1,658	215	3,433	12,100	1,328	17,372
Jun	988	195	1,182	563	262	345	322	1	1,459	215	3,168	11,859	1,423	18,138
Jul	938	165	1,104	598	269	362	356	1	1,471	218	3,276	12,009	1,456	17,816
Aug	889	179	1,069	611	263	353	363	1	1,446	188	3,225	12,418	1,425	17,968
Sep	948	134	1,082	588	254	346	347	2	1,394	229	3,159	12,116	1,372	18,873
Oct	863	41	905	612	265	358	378	2	1,472	251	3,337	12,337	1,464	19,832
Nov	875	194	1,069	600	248	339	390	2	1,473	215	3,267	11,686	1,420	19,776
Dec	975	199	1,175	630	278	378	416	2	1,714	250	3,668	11,355	1,489	19,561
YTD	10,460	2,043	12,503	6,894	3,233	4,292	4,431	18	18,452	2,620	39,940	138,904	16,841	214,375

Table 1.2-1M Final Modern Energy Consumption (Physical Unit) (Cont.)

2010															
Month	Solid Fossil Fuel (Thousand Tons)			Petroleum Products (Million Litres)							Electricity* (GWh)	NG in Industry (MMSCF)			
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel oil	Total	Energy	NPC	Total	
Jan	749	172	920	625	256	350	434	2	1,565	206	3,437	11,715	18,389	1,468	19,857
Feb	933	144	1,077	589	240	352	398	1	1,545	219	3,344	11,742	18,598	1,177	19,775
Mar	959	189	1,149	639	244	376	436	1	1,686	253	3,636	13,254	19,329	1,164	20,493
Apr	969	162	1,131	598	240	367	383	1	1,547	214	3,351	12,914	18,583	1,336	19,919
May	966	165	1,131	613	233	366	342	2	1,588	211	3,355	13,922	18,965	1,384	20,349
Jun	978	188	1,167	621	240	377	341	1	1,508	200	3,288	13,370	19,757	1,358	21,116
Jul	977	155	1,133	645	248	388	365	1	1,514	210	3,372	13,412	19,690	1,319	21,010
Aug	920	135	1,055	650	242	377	397	1	1,431	202	3,299	12,939	19,488	1,378	20,865
Sep	976	132	1,108	635	234	374	369	1	1,403	189	3,205	12,867	19,878	1,280	21,158
Oct	947	62	1,009	647	237	379	399	1	1,434	192	3,289	12,973	19,946	1,431	21,378
Nov	871	291	1,162	648	241	391	406	1	1,582	200	3,469	12,096	20,317	1,296	21,613
Dec	780	222	1,002	676	252	413	441	1	1,665	180	3,628	12,087	21,638	1,209	22,846
YTD	11,026	2,018	13,043	7,587	2,908	4,509	4,712	15	18,468	2,475	40,674	153,291	234,578	15,801	250,379

* Including Power Generation from SPP

Table 1.2-2M Final Modern Energy Consumption

Unit : ktce

2006														
Month	Solid Fossil Fuel				Petroleum Products					Electricity*		Natural Gas		
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel oil	Total	Energy	NPC	Total
Jan	362	136	498	243	178	271	336	1	1,393	341	2,763	837	214	26
Feb	392	151	543	228	160	247	302	1	1,317	295	2,550	844	195	23
Mar	407	171	578	252	183	282	324	1	1,486	343	2,871	974	219	28
Apr	334	120	454	234	177	277	304	1	1,351	330	2,674	906	194	26
May	341	127	468	259	169	283	298	1	1,404	311	2,725	958	231	26
Jun	359	124	483	256	161	279	284	1	1,273	338	2,592	963	215	25
Jul	343	124	467	279	162	282	295	1	1,242	299	2,560	961	217	26
Aug	339	123	462	295	157	284	296	1	1,239	321	2,593	960	235	27
Sep	368	103	471	287	151	283	289	1	1,182	296	2,489	948	218	25
Oct	399	80	479	292	156	296	304	1	1,235	287	2,571	943	237	26
Nov	387	77	464	279	159	303	318	1	1,324	273	2,657	942	241	25
Dec	504	110	614	291	165	308	343	1	1,373	290	2,771	908	233	27
YTD	4,535	1,449	5,984	3,198	1,979	3,397	3,693	16	15,817	3,723	31,823	11,145	2,649	310

2007														
Month	Solid Fossil Fuel				Petroleum Products					Electricity*		Natural Gas		
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel oil	Total	Energy	NPC	Total
Jan	525	77	602	294	156	300	361	1	1,417	297	2,826	869	280	28
Feb	440	82	522	271	149	278	339	1	1,294	296	2,628	856	257	21
Mar	481	83	564	297	161	311	350	1	1,481	302	2,903	1,025	265	25
Apr	450	189	639	278	157	300	331	1	1,356	288	2,711	967	264	28
May	366	72	438	297	156	295	338	1	1,346	284	2,717	1,006	285	32
Jun	357	62	419	299	161	300	308	1	1,357	275	2,701	1,020	265	36
Jul	455	68	523	306	162	298	324	1	1,291	274	2,656	1,007	257	35
Aug	579	96	675	324	169	307	336	1	1,340	195	2,672	1,008	276	33
Sep	374	58	432	312	163	279	316	1	1,238	248	2,557	995	261	31
Oct	419	97	516	327	174	289	327	1	1,292	310	2,720	994	309	32
Nov	454	65	519	330	169	270	343	1	1,322	260	2,695	955	301	31
Dec	508	81	589	327	180	283	359	1	1,388	211	2,749	947	301	32
YTD	5,409	1,030	6,439	3,663	1,956	3,510	4,031	15	16,120	3,239	32,534	11,649	3,320	363

Table 1.2-2M Final Modern Energy Consumption (Cont.)

Unit : ktce

2008														
Month	Solid Fossil Fuel				Petroleum Products					Electricity*		Natural Gas		
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel oil	Total	Energy	NPC	Total
Jan	556	74	630	344	173	276	373	1	1,404	286	2,857	940	315	31
Feb	514	96	610	325	167	264	360	1	1,311	235	2,663	934	308	29
Mar	505	114	619	345	171	279	354	1	1,461	237	2,848	1,038	334	32
Apr	536	87	623	331	171	279	335	1	1,389	336	2,842	1,004	329	31
May	543	90	633	360	161	270	325	1	1,335	252	2,704	1,047	329	31
Jun	551	110	661	351	152	264	309	1	1,173	217	2,467	1,025	313	31
Jul	556	91	647	391	155	261	304	1	1,074	232	2,418	1,050	363	34
Aug	520	89	609	384	174	264	302	1	1,142	238	2,505	1,049	350	31
Sep	512	96	608	376	174	249	275	1	1,100	214	2,389	993	352	33
Oct	502	86	588	390	186	261	316	1	1,202	213	2,569	1,020	374	34
Nov	492	54	546	357	189	256	274	1	1,209	191	2,477	900	308	22
Dec	482	26	508	349	219	289	263	1	1,402	209	2,732	834	317	31
YTD	6,270	1,013	7,283	4,303	2,093	3,212	3,790	13	15,201	2,859	31,471	11,833	3,993	368
4,361 54,948														
2009														
Month	Solid Fossil Fuel				Petroleum Products					Electricity*		Natural Gas		
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel oil	Total	Energy	NPC	Total
Jan	471	53	524	351	214	282	324	1	1,480	205	2,857	820	351	35
Feb	451	75	526	308	190	248	298	1	1,240	200	2,485	872	345	31
Mar	429	118	547	352	215	278	331	1	1,400	202	2,779	1,015	393	33
Apr	571	112	683	335	206	266	282	1	1,367	184	2,641	960	375	35
May	564	87	651	351	212	274	285	1	1,429	202	2,754	1,031	394	33
Jun	617	93	710	355	196	257	263	1	1,257	202	2,531	1,010	411	35
Jul	586	79	665	377	201	269	291	1	1,268	205	2,612	1,023	402	36
Aug	555	86	641	385	196	263	297	1	1,247	177	2,566	1,058	406	35
Sep	592	64	656	370	189	258	283	1	1,201	216	2,518	1,032	430	34
Oct	539	20	559	385	198	267	309	1	1,269	236	2,665	1,051	451	36
Nov	546	93	639	378	185	253	319	1	1,270	202	2,608	996	451	35
Dec	609	95	704	397	207	282	340	2	1,477	235	2,940	968	444	37
YTD	6,529	974	7,503	4,344	2,409	3,198	3,622	14	15,906	2,466	31,959	11,836	4,853	414
														5,267 56,565

Table 1.2-2M Final Modern Energy Consumption (Cont.)

Unit : ktce

2010																
Month	Solid Fossil Fuel			Petroleum Products					Electricity*			Natural Gas			Total	
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel oil	Total	Energy	NPC	Total		
Jan	467	82	549	394	191	260	354	1	1,349	194	2,743	998	452	36	488	4,778
Feb	583	69	652	371	179	262	325	1	1,332	206	2,676	1,000	457	29	486	4,814
Mar	599	90	689	403	182	280	356	1	1,453	238	2,913	1,129	475	29	504	5,235
Apr	605	77	682	377	179	274	313	1	1,334	201	2,679	1,100	457	33	490	4,951
May	603	79	682	386	174	272	280	2	1,368	199	2,681	1,186	466	34	500	5,049
Jun	611	90	701	392	179	281	278	1	1,300	188	2,619	1,139	485	33	518	4,977
Jul	610	74	684	407	185	289	298	1	1,305	198	2,683	1,143	484	32	516	5,026
Aug	575	64	639	410	180	281	324	1	1,233	190	2,619	1,103	479	34	513	4,874
Sep	609	63	672	400	174	278	302	1	1,210	178	2,543	1,096	488	31	519	4,830
Oct	591	30	621	408	177	282	326	1	1,236	180	2,610	1,105	490	35	525	4,861
Nov	544	139	683	408	179	291	332	1	1,363	188	2,762	1,031	499	32	531	5,007
Dec	487	106	593	426	188	307	361	1	1,435	169	2,887	1,030	532	30	562	5,072
YTD	6,882	962	7,844	4,781	2,166	3,360	3,851	12	15,919	2,330	32,419	13,062	5,764	388	6,152	59,477

* Including Power Generation from SPP



APPENDIX

● ● Chapter 2

OIL

● ● บทที่ 2

น้ำมัน

Energy
of Thailand

Table 2.1.1-1M Production of Crude Oil

Unit : Barrels/Day

2006												
Month	Chaba	Bualaung	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
Jan				38,382	17,266		9,112	9,540		50,225	5,903	130,428
Feb				38,590	17,421		9,167	9,600		50,016	6,058	130,852
Mar				38,980	18,701		7,848	10,346		51,246	5,127	132,248
Apr				41,119	18,877		8,778	9,891		50,421	4,851	133,937
May				41,040	20,029		8,766	9,495		53,204	3,959	136,493
Jun				40,376	18,171		8,625	9,029		51,961	4,513	132,675
Jul				36,213	19,512		8,459	8,588		52,541	3,640	128,953
Aug				41,987	19,033		7,570	8,139		48,645	4,102	129,476
Sep				39,924	18,368		7,463	7,532		51,510	4,269	129,066
Oct				31,299	17,400		7,570	7,085		48,294	3,938	115,586
Nov				40,148	19,817		7,441	7,778		50,425	4,336	129,945
Dec				36,307	20,583		8,804	6,841		41,698	4,003	118,236
YTD				38,679	18,775		8,296	8,649		50,004	4,547	128,950

2007												
Month	Chaba	Bualaung	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
Jan				33,459	20,260		9,000	9,732		43,623	4,040	120,114
Feb				40,018	20,652	333	8,035	17,944		42,825	4,146	133,953
Mar				43,841	21,314	313	8,280	21,551		44,125	4,540	143,964
Apr				42,683	21,544	314	7,768	20,542		43,706	4,501	141,058
May				39,436	19,449	312	7,230	19,515		42,906	3,859	132,707
Jun				39,533	20,315	950	6,756	19,873		42,396	6,508	136,331
Jul				36,871	21,937	652	5,240	21,050		43,713	5,230	134,693
Aug				36,287	20,273	606	5,509	21,043		40,071	3,999	127,788
Sep				42,970	20,147	593	7,324	21,126		36,301	4,248	132,709
Oct				34,483	20,159	2,404	9,367	19,799		36,975	4,645	127,832
Nov				41,811	20,272	3,868	9,697	19,797		45,613	4,039	145,097
Dec				39,589	19,826	4,024	8,285	19,241		43,384	4,646	138,995
YTD				39,215	20,511	1,202	7,703	19,267		42,132	4,533	134,563

Table 2.1.1-1M Production of Crude Oil (Cont.)

Unit : Barrels/Day

2008												
Month	Chaba	Bualaung	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
Jan				40,914	18,536	6,528	6,539	18,950		42,301	4,310	138,078
Feb				35,635	19,205	8,732	6,399	17,990		42,366	4,275	134,602
Mar				34,340	22,421	8,170	6,810	17,427		42,161	4,481	135,810
Apr				36,365	21,298	6,088	6,150	17,443		47,088	4,533	138,965
May				40,395	21,151	6,642	5,760	16,460		44,101	4,529	139,038
Jun				40,980	22,427	6,461	5,844	16,482		47,094	4,627	143,915
Jul				37,545	22,085	6,605	6,055	15,938		45,453	4,455	138,135
Aug		391		37,052	21,766	6,950	6,257	21,562		46,974	4,411	145,363
Sep		12,060		35,815	18,246	7,503	3,381	23,183		47,088	4,457	151,733
Oct		11,671		23,953	21,293	10,868	8,351	23,033		46,844	4,435	150,448
Nov		5,691	3,502	31,408	21,466	12,304	8,336	15,559	8,339	47,088	4,751	158,444
Dec		10,000		32,387	21,293	11,831	8,096	15,447	8,985	41,071	3,537	152,647
YTD		3,324	287	35,559	20,942	8,222	6,505	18,292	1,445	44,960	4,399	143,935
2009												
Month	Chaba	Bualaung	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
Jan		7,725		33,137	21,529	12,745	9,047	14,463	8,422	42,941	3,590	153,599
Feb		6,955	1,019	34,796	21,464	10,032	8,843	14,741	8,151	39,948	3,430	149,379
Mar	3,078	6,144	8,367	36,086	20,838	8,431	8,653	12,925	8,083	46,786	4,010	163,401
Apr	7,725	6,146	8,646	34,854	22,268	8,351	3,292	12,911	8,107	27,166	19,852	159,318
May		13,213	6,584	33,549	22,147	16,130	3,746	13,213	7,615	7,172	30,725	154,094
Jun	9,323	11,907	5,156	33,721	20,500	8,111	5,553	9,046	4,300	26,741	19,856	154,214
Jul	7,093	10,768	4,524	30,464	21,411	7,103	6,246	12,630	6,097	26,199	19,120	151,655
Aug	6,625	10,768	7,545	27,957	20,905	5,771	6,236	12,630	6,097	28,916	18,464	151,914
Sep	875	11,127	2,187	31,773	21,285	5,389	6,113	13,051	6,300	26,405	13,213	137,718
Oct	5,698	8,205	4,755	29,428	20,720	5,250	6,679	15,134	4,941	20,805	14,951	136,566
Nov	5,815	7,123	6,764	39,509	20,995	5,906	5,809	16,646	7,123	27,405	17,666	160,761
Dec		6,739	4,900	40,169	21,837	6,913	4,266	16,262	4,047	29,094	41,061	175,288
YTD	3,862	8,916	5,063	33,766	21,324	8,346	6,196	13,637	6,596	29,067	17,269	154,041

Oil

Table 2.1.1-1M Production of Crude Oil (Cont.)

Unit : Barrels/Day

2010												
Month	Chaba	Bualaung	Songkhla	Big Oil Project	Sirikitt	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
Jan	5,234	6,846	6,361	34,065	23,634	7,265	4,136	15,015	4,056	27,144	16,191	149,947
Feb	5,129	6,221	6,726	38,536	22,534	5,927	5,741	15,011	4,030	26,722	17,003	153,580
Mar	6,744	6,171	8,375	38,141	22,022	6,758	5,447	14,489	3,885	29,463	15,284	156,779
Apr	5,185	4,930	9,757	41,735	22,580	5,937	3,542	14,349	3,701	28,977	10,599	151,292
May	3,235	10,210	7,793	42,447	21,846	6,036	3,890	14,839	3,252	28,164	16,445	158,157
Jun	3,409	10,814	7,305	44,373	22,751	6,240	3,764	15,464	3,290	29,187	19,115	165,712
Jul	2,599	10,465	9,133	42,743	22,978	5,399	2,847	14,099	3,368	28,746	20,768	163,145
Aug	2,323	10,818	11,772	38,771	22,464	6,513	3,003	13,384	4,104	26,392	22,366	161,910
Sep	2,966	9,310	10,473	33,902	20,786	9,731	3,768	13,314	4,446	24,883	25,803	159,382
Oct	2,569	9,248	7,849	28,711	18,534	8,825	3,166	12,221	4,622	23,650	24,105	143,500
Nov	3,225	7,333	4,461	34,903	21,609	5,648	3,409	11,164	4,336	23,804	22,812	142,704
Dec	2,380	7,322	4,997	26,018	20,039	5,946	3,762	13,142	3,622	22,857	22,140	132,225
YTD	3,739	8,327	7,926	36,998	21,808	6,689	3,860	13,868	3,891	26,665	19,403	153,174

Source : Department of Mineral Fuels (DMF)

Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.1-2M Production of Condensate

Unit : Barrels/Day

2006										
Month	Pailin	Erawan	Bannpot	Satun	Gomin	Phuorm	Funan & Jakrawan	Bongkot	Arthit	Total
Jan	24,115	11,546	785	1,503	2,718		6,179	18,240	7,580	74,006
Feb	25,896	11,852	680	1,873	2,587		7,283	18,312	6,801	76,690
Mar	26,193	11,378	855	2,605	2,516		7,412	19,557	6,024	77,342
Apr	26,240	11,029	420	3,169	1,414		9,722	15,432	5,243	73,653
May	26,094	11,276	4,046	2,086	965		8,905	18,190	4,277	76,873
Jun	25,967	11,298	5,737	2,385	620		8,680	18,680	2,641	76,987
Jul	22,930	11,446	6,159	3,102	672		7,925	18,642	3,479	74,489
Aug	25,269	11,453	6,128	2,749	851		7,826	17,327	5,023	76,790
Sep	27,003	11,464	4,045	3,467	571		8,470	19,088	4,612	79,525
Oct	24,753	10,565	4,120	2,661	984		9,426	17,386	4,133	74,787
Nov	25,455	10,156	4,103	1,700	476		9,071	16,696	4,557	72,935
Dec	23,490	9,805	3,643	2,629	325	374	8,716	14,703	4,865	69,131
YTD	25,269	11,101	3,414	2,497	1,219	32	8,302	17,685	4,928	75,250

2007										
Month	Pailin	Erawan	Bannpot	Satun	Gomin	Phuorm	Funan & Jakrawan	Bongkot	Arthit	Total
Jan	23,645	12,141	3,814	2,139	393	374	10,039	16,363	5,156	74,818
Feb	24,976	10,940	3,490	2,209	418	497	9,159	16,645	3,572	72,841
Mar	25,811	11,993	3,398	4,267	390	465	10,781	17,135	2,319	77,779
Apr	25,413	12,041	3,940	4,098	265	490	12,349	13,983	3,193	76,328
May	24,907	11,880	2,936	4,256	389	495	12,912	17,351	3,482	79,792
Jun	24,863	10,598	4,111	4,627	617	486	12,543	17,437	3,099	79,345
Jul	25,671	10,601	3,806	4,658	858	419	12,898	18,804	3,534	82,868
Aug	27,380	10,342	3,875	4,665	1,246	517	11,693	19,612	4,253	84,179
Sep	23,912	10,484	4,045	4,405	922	374	11,182	19,047	2,562	77,503
Oct	25,704	11,070	4,757	4,464	375	415	11,093	19,638	2,329	80,377
Nov	25,256	11,639	3,811	4,050	448	490	13,252	18,691	1,857	79,788
Dec	25,687	11,720	3,955	3,220	269	551	12,872	19,525	1,963	79,865
YTD	25,276	11,291	3,829	3,931	550	464	11,746	17,869	3,111	78,845

Oil

Table 2.1.1-2M Production of Condensate (Cont.)

Unit : Barrels/Day

2008												
Month	Pailin	Erawan	Bannpot	Satun	Gomin	Phuorm	Funan & Jakrawan	Bongkot	Arthit	Trat	Others	Total
Jan	24,412	11,419	3,963	4,003	70	374	13,353	19,301		1,745	193	78,833
Feb	22,971	11,842	3,759	4,400	51	363	13,915	19,850		1,827	244	79,222
Mar	22,023	11,042	3,497	4,353	281	529	13,573	20,735	685	1,552	355	78,625
Apr	25,311	10,147	3,147	4,320	777	552	12,058	20,981	8,967	852	464	87,576
May	24,343	9,752	2,902	4,100	740	476	10,027	20,561	18,697	1,858	517	93,973
Jun	24,503	10,069	3,095	4,324	641	401	9,686	21,037	19,265	834	640	94,495
Jul	23,634	9,906	2,725	4,365	845	434	10,123	12,438	17,896	558	497	83,422
Aug	24,827	11,690	2,702	4,369	702	556	10,064	20,313	18,871	528	386	95,008
Sep	23,672	11,997	2,363	4,542	1,071	558	9,252	17,225	19,141	592	493	90,906
Oct	24,971	11,510	1,962	4,492	682	443	8,722	20,618	18,995	803	529	93,727
Nov	20,519	8,888	1,142	3,063	552	445	6,717	15,841	11,234	497	155	69,053
Dec	18,041	8,903	530	3,304	3,137	358	5,517	13,278	17,024		3,499	73,591
YTD	23,268	10,594	2,645	4,136	800	458	10,240	18,505	12,610	969	669	84,893
2009												
Month	Pailin	Erawan	Bannpot	Satun	Gomin	Phuorm	Funan & Jakrawan	Bongkot	Arthit	Trat	Others	Total
Jan	22,334	12,524	1,123	3,774	535	196	5,628	16,645	17,743	398	162	81,062
Feb	23,247	14,456	1,650	3,542	420	194	6,467	14,543	17,939	490	207	83,155
Mar	21,949	14,337	2,771	4,138	310	196	9,041	18,452	17,846	755	289	90,084
Apr	22,135	11,294	626	2,789	267	497	5,464	17,263	17,081	837	97	78,350
May	24,023	12,825	414	2,205	273	507	7,113	17,259	18,551	742	361	84,273
Jun	23,181	11,991	2,156	2,423	500	509	7,546	19,200	18,742	554	679	87,481
Jul	21,856	11,396	1,460	2,169	204	474	6,026	22,423	17,955	274	479	84,716
Aug	23,487	12,889	1,576	3,097	346	474	8,045	19,023	16,849	299	563	86,648
Sep	23,406	11,654	2,434	3,072	181	519	5,874	20,806	13,373	979	490	82,788
Oct	22,315	12,878	2,786	3,194	441	520	8,573	14,147	17,551	1,074	609	84,088
Nov	18,766	11,396	1,748	2,203	1,637	376	5,453	19,437	17,402	683	205	79,306
Dec	18,654	12,386	2,355	2,655	3,878	439	3,789	20,153	19,135	680	405	84,529
YTD	22,106	12,496	1,759	2,937	753	409	6,591	18,300	17,520	647	380	83,900

Table 2.1.1-2M Production of Condensate (Cont.)

Unit : Barrels/Day

Month	2010											Total
	Pailin	Erawan	Bannpot	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Trat	Others	
Jan	20,493	11,964	1,418	2,719	5,169	424	3,176	19,886	16,604	424	554	82,831
Feb	22,722	10,912	1,046	2,595	3,864	384	3,051	17,283	19,533	532	307	82,229
Mar	25,100	12,312	1,980	3,601	3,769	520	4,693	20,384	20,422	359	502	93,642
Apr	21,198	12,889	2,835	1,958	3,045	429	5,966	19,509	16,829	162	182	85,002
May	21,225	10,794	5,024	3,510	1,998	486	6,050	20,097	17,464	881	429	87,958
Jun	21,034	10,887	4,617	1,529	2,472	385	7,729	20,682	17,598	4,125	66	91,124
Jul	22,135	11,643	4,811	2,375	2,227	415	8,044	19,744	17,682	2,734		91,810
Aug	23,374	11,146	4,301	2,871	1,424	422	9,175	20,014	13,392	2,621		88,740
Sep	23,291	11,000	5,457	2,750	1,863	342	8,830	16,858	16,088	2,267		88,746
Oct	23,953	9,908	5,290	2,969	1,639	421	8,832	20,124	17,439	1,435		92,010
Nov	21,848	9,876	4,562	3,233	1,350	448	7,947	19,437	19,160	1,698		89,559
Dec	22,798	10,801	3,942	2,588	1,491	451	7,065	20,525	18,065	1,529		89,255
YTD	22,435	11,180	3,789	2,730	2,519	428	6,733	19,568	17,508	1,567	170	88,627

Source : Department of Mineral Fuels (DMF)
Compiled by : Energy Policy and Planning office (EPPO)

Table 2.1.2 -1M Import of Crude Oil Classified by Sources

Unit : Million Litres

2006											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Middle East	3,126	2,609	3,593	3,481	3,581	3,271	3,109	3,984	3,073	3,335	38,913
Far East	649	384	321	392	529	420	553	375	526	518	5,724
Others	296	269	550		272	222	470	48	338	384	3,489
Total	4,070	3,262	4,464	3,874	4,382	3,913	4,133	4,408	3,937	4,238	48,125
2007											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Middle East	2,787	3,219	2,970	3,484	3,236	2,952	3,070	3,656	2,885	2,383	36,747
Far East	357	423	387	290	449	131	400	400	331	524	4,222
Others	363	685	324	443	312	482	621	658	332	789	5,703
Total	3,508	4,327	3,681	4,217	3,997	3,564	4,091	4,714	3,548	3,696	46,671
2008											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Middle East	3,633	3,183	3,913	2,957	3,684	3,010	2,982	3,637	2,730	3,745	39,145
Far East	326	352	324	579	485	239	162	178	100	84	3,344
Others	304	710	416	424	162	441	595	362	481	317	4,736
Total	4,263	4,245	4,653	3,960	4,330	3,690	3,739	4,176	3,311	4,146	47,225
2009											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Middle East	2,946	2,157	3,892	3,139	2,961	3,514	2,772	3,256	3,440	2,690	36,601
Far East	541	496	638	716	709	366	461	390	368	575	6,025
Others	239	228	274	145	300	343	453	88	452	621	3,995
Total	3,726	2,882	4,804	4,000	3,970	4,224	3,686	3,734	4,261	3,887	46,620
2010											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Middle East	2,863	2,990	2,821	3,074	2,637	2,960	2,788	2,906	2,740	2,703	34,553
Far East	426	686	326	469	316	314	471	418	221	48	4,250
Others	528	67	479	985	694	892	594	735	823	909	8,563
Total	3,816	3,744	3,627	4,528	3,647	4,166	3,853	4,059	3,785	3,661	47,365

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.2-1M Material Intake by Refinery

Unit : BBL/D

2006								
Month	Thai Oil	Bangchak	ESSO	IRPC / TPI	RRC	SPRC	RPC	Total
Jan	229,901	66,805	148,724	183,744	152,625	152,625	11,902	946,326
Feb	233,763	64,191	145,742	152,774	154,418	154,418	12,209	917,515
Mar	222,221	66,903	153,290	185,718	141,353	141,353	4,457	915,294
Apr	238,305	58,768	146,667	180,233	159,844	159,844	13,050	956,712
May	235,436	62,128	144,497	176,295	150,932	150,932	15,203	935,423
Jun	235,321	46,096	150,033	177,565	154,434	154,434	14,607	932,489
Jul	237,924	68,746	153,560	180,548	156,086	156,086	13,361	966,311
Aug	233,295	66,662	147,565	186,790	151,134	151,134	10,190	946,771
Sep	237,159	50,634	136,297	184,947	154,662	154,662	10,697	929,057
Oct	186,560	49,600	160,874	192,955	157,929	157,929	11,450	917,296
Nov	229,045	41,679	161,009	81,708	155,184	155,184	12,673	836,482
Dec	234,136	42,319	156,851	146,396	156,037	156,036	12,224	904,000
YTD	229,326	57,070	150,485	169,417	153,689	153,689	11,822	925,498
2007								
Month	Thai Oil	Bangchak	ESSO	IRPC / TPI	RRC	SPRC	RPC	Total
Jan	222,520	45,625	146,855	183,739	155,426	155,426	10,963	920,554
Feb	236,333	51,662	146,289	191,418	138,577	138,577	13,292	916,148
Mar	237,183	58,205	154,223	182,717	105,952	105,952	13,450	857,682
Apr	235,742	71,416	151,486	181,928	152,024	152,024	14,348	958,968
May	235,344	71,496	153,271	194,616	136,520	136,519	13,362	941,128
Jun	237,551	77,073	119,756	192,295	149,687	149,687	12,790	938,838
Jul	202,415	69,552	144,399	192,036	153,595	153,595	13,168	928,760
Aug	219,338	69,769	156,598	191,481	157,608	157,608	10,362	962,764
Sep	230,679	73,660	158,466	177,996	149,368	149,368	14,470	954,007
Oct	127,032	64,508	151,925	186,831	156,697	156,696	13,266	856,957
Nov	104,995	65,807	151,131	196,353	157,259	157,259	12,931	845,735
Dec	219,551	70,580	144,208	200,101	160,332	159,395	13,426	967,594
YTD	208,907	65,827	148,266	189,299	147,782	147,702	12,976	920,759

Oil

Table 2.2-1M Material Intake by Refinery (Cont.)

Unit : BBLD

2008							
Month	Thai Oil	Bangchak	ESSO	IRPC / TPI	PTTAR	SPRC	RPC
Jan	260,756	71,522	137,983	185,440	156,402	156,402	11,552
Feb	278,451	19,270	154,992	188,551	163,277	163,277	14,621
Mar	281,982	89,858	141,679	176,493	145,208	145,208	13,578
Apr	280,288	87,298	156,031	181,478	156,300	156,300	11,453
May	283,271	79,318	150,738	178,172	153,212	153,212	11,521
Jun	284,910	83,067	155,529	187,990	74,616	74,616	12,846
Jul	281,622	77,985	123,405	176,086	143,180	143,180	12,787
Aug	255,302	71,354	136,150	144,900	123,112	123,112	5,318
Sep	221,823	72,068	133,765	163,538	100,524	100,524	12,344
Oct	291,546	70,313	128,801	167,601	136,823	136,823	13,417
Nov	288,065	80,986	141,485	159,038	62,392	62,392	11,182
Dec	272,620	77,511	138,624	159,495	118,256	118,256	8,092
YTD	272,648	73,540	141,046	171,788	127,455	127,455	11,498
2009							
Month	Thai Oil	Bangchak	ESSO	IRPC / TPI	PTTAR	SPRC	RPC
Jan	275,497	79,034	140,722	102,001	135,780	153,916	8,742
Feb	281,149	96,003	141,430	60,011	144,470	148,293	9,964
Mar	280,573	89,528	152,348	158,352	150,411	153,092	14,176
Apr	271,846	95,418	141,552	149,691	140,085	156,241	10,023
May	250,887	97,194	143,181	148,486	134,662	156,996	9,819
Jun	275,051	81,742	145,380	152,604	134,312	154,045	7,233
Jul	277,059	90,021	140,477	145,168	122,464	166,812	11,376
Aug	270,623	89,092	104,860	145,481	149,849	140,002	10,136
Sep	267,370	86,134	135,964	168,653	146,271	158,899	10,957
Oct	268,514	75,325	130,423	144,235	151,103	150,531	11,606
Nov	243,282	86,156	133,719	161,464	151,249	133,496	8,700
Dec	257,041	56,881	140,605	143,971	151,178	157,199	9,925
YTD	268,177	85,098	137,506	140,469	142,634	152,514	10,234

Table 2.2-1M Material Intake by Refinery (Cont.)

Unit: BBLD

Month	2010							Total
	Thai Oil	Bangchak	ESSO	IRPC / TPI	PTTAR	SPRC	RPC	
Jan	230,660	78,691	130,239	168,489	141,955	181,355	8,518	939,908
Feb	269,505	91,246	102,927	159,426	129,906	153,656	11,475	918,140
Mar	264,759	98,340	121,060	182,762	149,534	170,033	12,164	998,652
Apr	250,187	74,041	122,232	172,553	152,223	164,437	13,297	948,970
May	249,128	88,107	132,047	173,021	152,507	158,966	11,948	965,724
Jun	256,714	87,841	129,206	170,686	150,123	162,414	1,237	958,221
Jul	256,916	88,802	117,338	177,610	151,848	177,453	11,864	981,833
Aug	268,415	90,074	127,237	161,807	153,217	159,737	12,159	972,644
Sep	254,286	91,928	121,071	174,892	138,450	160,876	11,870	953,374
Oct	268,634	95,061	131,349	174,863	151,560	133,143	11,352	965,963
Nov	251,130	88,715	125,550	179,407	146,732	170,822	10,967	973,323
Dec	245,801	89,930	136,755	180,486	136,176	159,333	11,286	959,769
YTD	255,423	88,575	124,933	173,097	146,312	162,738	10,686	961,764

Remark : Since mid of December 2007 RRC merged with ATC to form PTTAR.

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office(EPPO)

Table 2.3.1-1M Production of Petroleum Products

Unit : Million Litres

2006										
Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	788.1	422.1	366.0	89.3	1,713.2	1,711.6	542.6	539.5	675.3	4,347.9
Feb	718.5	401.5	317.0	88.7	1,631.2	1,628.7	455.9	548.0	558.3	4,000.5
Mar	740.6	381.7	358.9	94.6	1,738.0	1,733.0	445.5	559.6	552.7	4,131.0
Apr	780.7	402.4	378.3	84.2	1,869.2	1,860.9	394.1	529.5	582.3	4,239.9
May	784.0	420.6	363.5	78.5	1,818.0	1,808.6	380.0	543.3	576.9	4,180.7
Jun	772.6	454.8	317.8	88.7	1,812.2	1,805.0	388.4	544.9	583.7	4,190.5
Jul	786.8	433.4	353.4	93.3	1,883.6	1,877.5	491.3	586.4	603.2	4,444.6
Aug	759.7	426.5	333.2	118.6	1,757.4	1,755.2	500.4	564.0	638.0	4,338.0
Sep	760.4	427.1	333.3	92.4	1,671.5	1,667.8	516.0	477.5	643.4	4,161.1
Oct	736.5	423.1	313.4	91.1	1,772.5	1,769.1	460.0	438.1	620.4	4,118.5
Nov	708.4	413.7	294.7	50.5	1,668.3	1,667.1	499.7	499.6	577.1	4,003.5
Dec	753.6	427.9	325.7	71.2	1,814.2	1,811.0	529.1	477.8	618.8	4,264.6
YTD	9,089.9	5,034.7	4,055.2	1,041.1	21,149.4	21,095.3	54.0	6,308.1	7,230.0	50,421.2

2007										
Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	782.8	445.0	337.7	5.6	1,800.1	1,797.1	545.7	480.4	690.2	4,304.7
Feb	687.8	383.7	304.2	12.1	1,649.6	1,645.5	482.5	414.8	585.6	3,832.4
Mar	701.4	399.4	302.0	5.7	1,713.4	1,711.1	429.1	501.5	574.5	3,925.5
Apr	770.7	428.8	341.9	11.8	1,864.6	1,862.6	441.2	556.4	615.7	4,260.3
May	716.2	397.5	318.7	6.1	1,831.9	1,828.5	513.8	612.3	643.6	4,324.0
Jun	699.6	375.0	324.6	16.8	1,847.7	1,846.3	401.9	542.0	647.1	4,155.1
Jul	764.3	485.9	278.4	16.9	1,906.1	1,904.0	404.2	482.9	643.9	4,218.3
Aug	741.5	418.7	322.8	8.1	1,963.2	1,961.2	454.9	512.4	684.5	4,364.6
Sep	774.6	450.6	324.0	19.4	1,904.8	1,897.8	461.6	558.5	659.5	4,378.4
Oct	703.2	468.4	234.8	4.5	1,846.2	1,844.4	373.3	562.5	676.6	4,166.2
Nov	626.3	417.6	208.7	3.2	1,672.4	1,670.1	330.9	594.8	643.0	3,870.6
Dec	734.5	397.5	337.0	13.2	1,994.7	1,994.7	483.4	633.4	688.1	4,547.3
YTD	8,702.9	5,068.1	3,634.8	123.4	21,994.9	21,963.5	31.4	6,452.0	7,752.2	50,348.0

Table 2.3.1-1M Production of Petroleum Products (Cont.)

Unit : Million Litres

2008										
Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	781.5	415.3	366.2	7.4	1,828.4	1,828.0	604.0	590.6	679.3	4,491.3
Feb	730.5	406.1	324.4	21.5	1,608.0	1,604.8	524.1	498.5	659.3	4,041.8
Mar	769.7	451.9	317.8	16.2	1,950.5	1,950.5	536.6	574.5	691.9	4,539.4
Apr	776.1	439.4	336.7	4.6	1,932.0	1,932.0	577.5	632.1	650.4	4,572.7
May	739.0	440.2	298.7	60.6	1,940.4	1,940.4	525.6	574.8	746.1	4,586.3
Jun	700.6	383.1	317.5	9.5	1,637.6	1,637.5	381.4	522.0	714.8	3,965.7
Jul	663.9	405.1	258.8	4.0	1,759.9	1,759.9	527.2	577.3	837.0	4,369.3
Aug	704.5	453.2	251.3	53.3	1,590.3	1,590.3	443.6	612.6	809.4	4,213.6
Sep	603.8	351.1	252.7	5.2	1,474.9	1,474.9	431.8	503.2	754.2	3,772.9
Oct	630.8	371.7	259.0	1.2	1,769.2	1,769.2	475.9	716.1	841.2	4,434.4
Nov	613.9	350.8	263.2	10.9	1,494.9	1,494.9	499.3	455.7	611.4	3,686.1
Dec	734.7	432.3	302.5	0.5	1,783.0	1,783.0	474.8	616.1	565.4	4,174.3
YTD	8,449.0	4,900.1	3,548.9	194.9	20,769.0	20,765.4	6,001.9	6,873.3	8,560.3	50,848.3

2009										
Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	781.8	388.3	393.5	3.8	1,806.1	1,806.1	486.1	608.8	664.3	4,350.9
Feb	641.2	366.9	274.3	3.3	1,503.3	1,503.3	454.8	588.1	592.4	3,783.1
Mar	763.3	447.3	316.0	7.2	1,990.1	1,990.1	542.3	680.4	724.5	4,707.8
Apr	731.6	446.4	285.2	7.6	1,928.0	1,928.0	428.9	541.0	699.4	4,336.5
May	785.2	492.0	293.3	4.8	2,012.0	2,012.0	500.2	583.8	786.5	4,672.4
Jun	758.2	489.2	269.0	7.9	1,842.9	1,842.9	455.5	591.9	745.1	4,401.5
Jul	765.7	440.8	325.0	13.1	1,940.1	1,940.1	569.4	593.1	823.8	4,705.2
Aug	743.4	426.0	317.4	3.0	1,865.5	1,865.5	523.1	565.0	827.1	4,527.1
Sep	716.3	420.7	295.6	8.4	1,967.0	1,967.0	447.5	579.1	787.8	4,506.1
Oct	740.5	433.3	307.2	8.5	1,944.2	1,944.2	581.8	493.6	821.3	4,589.9
Nov	685.5	384.8	300.6	16.5	1,804.4	1,804.4	506.0	517.5	813.2	4,343.1
Dec	739.4	454.7	284.7	8.7	1,885.4	1,885.4	479.4	541.9	861.2	4,515.9
YTD	8,852.1	5,190.3	3,661.8	92.9	22,489.0	22,489.0	5,975.0	6,884.2	9,146.7	53,439.8

Oil

Table 2.3.1-1M Production of Petroleum Products (Cont.)

Unit : Million Litres

Month	2010									
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	716.5	391.0	325.5	16.4	1,820.1	1,820.1	530.9	546.2	853.1	4,483.1
Feb	661.4	382.8	278.5	0.6	1,723.9	1,723.9	493.6	505.5	783.6	4,168.6
Mar	712.5	445.0	267.5	6.7	2,037.2	2,037.2	568.1	562.0	896.5	4,783.0
Apr	739.1	469.2	269.9	2.1	1,821.8	1,821.8	533.7	490.6	820.1	4,407.3
May	751.7	440.8	310.9	12.7	2,075.3	2,075.3	473.7	551.2	875.5	4,739.9
Jun	741.7	437.4	304.3	24.4	1,947.5	1,947.5	484.3	499.4	868.0	4,565.2
Jul	742.0	447.2	294.8	25.3	2,023.3	2,023.3	519.0	466.0	846.9	4,622.5
Aug	763.2	468.9	294.3	30.5	2,036.2	2,036.2	591.4	456.8	896.2	4,774.3
Sep	749.1	449.6	299.5	112.4	1,928.3	1,928.3	490.4	478.9	921.5	4,680.4
Oct	716.2	454.3	261.9	165.2	1,960.6	1,960.6	446.2	486.0	919.7	4,693.9
Nov	666.0	413.4	252.7	55.9	1,868.4	1,868.4	498.9	477.9	864.9	4,432.0
Dec	804.6	505.4	299.2	14.7	2,062.2	2,062.2	565.8	479.3	975.8	4,902.4
YTD	8,763.9	5,305.0	3,458.9	466.7	23,304.8	23,304.8	6,196.1	5,999.8	10,521.8	55,253.0

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.1-2M Production of Petroleum Products

Unit : Barrels/Day

2006											
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total		
	Total	Regular		Premium	Total					HSD	LSD
Jan	159,900.5	85,641.4	74,259.0	18,118.4	347,597.4	347,272.8	324.6	110,090.1	109,461.1	137,014.0	882,165.8
Feb	161,398.2	90,189.8	71,208.4	19,924.8	366,420.1	365,858.5	561.5	102,409.8	123,098.4	125,412.2	898,646.4
Mar	150,263.0	77,444.5	72,818.5	19,193.7	352,629.1	351,614.7	1,014.4	90,389.1	113,539.2	112,139.3	838,162.7
Apr	163,679.0	84,365.8	79,313.1	17,653.1	391,890.4	390,150.3	1,740.1	82,625.7	111,013.2	122,083.1	888,930.2
May	159,068.6	85,337.0	73,751.8	15,927.1	368,860.6	366,953.4	1,927.4	77,099.5	110,232.1	117,049.3	848,255.2
Jun	161,980.8	95,351.9	66,628.9	18,596.5	379,940.0	378,430.5	1,509.5	81,430.6	114,241.9	122,376.6	878,579.3
Jul	159,636.7	87,934.1	71,702.6	18,929.9	382,170.5	380,932.8	1,257.9	99,681.6	118,976.8	122,385.4	901,784.8
Aug	154,138.3	86,534.1	67,604.1	24,063.1	356,565.3	356,118.9	446.3	101,527.9	114,432.0	129,446.1	880,164.3
Sep	159,423.0	89,544.4	69,878.6	19,372.2	350,441.3	349,665.5	754.7	108,182.9	100,111.1	134,893.1	872,407.9
Oct	149,431.1	85,844.3	63,586.8	18,483.6	359,629.0	358,939.1	689.8	93,331.0	88,887.7	125,875.2	835,626.0
Nov	148,520.8	86,735.0	61,785.8	10,587.6	349,770.4	349,518.8	251.5	104,765.4	104,744.5	120,992.9	839,368.5
Dec	152,900.6	86,818.2	66,082.4	14,446.0	368,089.6	367,440.4	628.9	107,351.0	96,942.5	125,550.6	865,269.6
YTD	156,637.7	86,758.2	69,879.4	17,940.3	364,447.8	363,515.5	930.5	96,549.5	108,701.5	124,587.8	868,862.9

2007											
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total		
	Total	Regular		Premium	Total					HSD	LSD
Jan	158,825.1	90,287.6	68,517.1	1,136.2	365,228.8	364,620.2	608.6	110,719.0	97,470.1	140,037.2	873,410.6
Feb	154,502.0	86,191.4	68,333.1	2,718.0	370,553.4	369,632.4	920.9	108,385.0	93,177.4	131,544.6	860,895.5
Mar	142,309.6	81,035.7	61,273.8	1,156.4	347,638.0	347,171.3	466.6	87,061.6	101,751.1	116,562.4	796,473.7
Apr	161,582.4	89,900.8	71,681.6	2,473.9	390,926.0	390,506.7	419.3	92,500.5	116,653.0	129,085.6	893,214.6
May	145,312.4	80,650.2	64,662.2	1,237.6	371,680.9	370,991.0	689.8	104,246.7	124,231.7	130,582.3	877,319.6
Jun	146,675.8	78,621.2	68,054.5	3,522.2	387,382.8	387,089.3	293.5	84,261.0	113,633.9	135,668.9	871,145.2
Jul	155,071.6	98,586.0	56,485.5	3,428.9	386,735.6	386,309.5	426.0	82,009.6	97,977.3	130,643.2	855,869.8
Aug	150,445.6	84,951.5	65,494.0	1,643.4	398,320.8	397,915.0	405.7	92,296.3	103,962.7	138,880.7	885,557.7
Sep	162,400.1	94,471.3	67,928.8	4,067.3	399,354.2	397,886.6	1,467.5	96,777.5	117,093.3	138,268.6	917,964.4
Oct	142,674.8	95,035.3	47,639.4	913.0	374,582.2	374,217.0	365.2	75,740.2	114,127.6	137,277.8	845,308.2
Nov	131,308.0	87,552.6	43,755.3	670.9	350,630.0	350,147.8	482.2	69,375.4	124,703.8	134,809.3	811,518.1
Dec	149,025.4	80,650.2	68,375.1	2,678.1	404,712.0	404,712.0		98,078.7	128,512.8	139,611.1	922,635.2
YTD	149,968.9	87,333.8	62,635.1	2,126.4	379,017.5	378,476.4	541.0	91,719.3	111,181.2	133,586.4	867,600.4

Oil

Table 2.3.1-2M Production of Petroleum Products (Cont.)

Unit : Barrels/Day

2008											
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total		
	Total	Regular		Premium	Total					HSD	LSD
Jan	158,561.4	84,261.7	74,299.6	1,501.4	370,970.7	370,889.6	101.4	122,547.7	119,829.0	137,825.6	911,258.4
Feb	164,093.8	91,223.1	72,870.7	4,829.5	361,208.7	360,489.8	718.8	117,729.7	111,979.1	148,100.0	907,920.8
Mar	156,167.2	91,687.6	64,479.6	3,286.8	395,744.1	395,744.1		108,872.7	116,562.4	140,382.1	921,034.3
Apr	162,714.6	92,123.1	70,591.4	964.4	405,056.9	405,056.9		121,076.7	132,524.0	136,360.7	958,700.4
May	149,938.4	89,313.7	60,604.3	12,295.3	393,694.8	393,694.8		106,640.9	116,623.2	151,378.9	930,550.5
Jun	146,885.5	80,319.5	66,566.0	1,991.7	343,333.9	343,312.9		79,963.1	109,440.8	149,862.6	831,456.5
Jul	134,701.1	82,192.2	52,508.8	811.5	357,072.5	357,072.5		106,965.5	117,130.5	169,822.0	886,518.9
Aug	142,938.5	91,951.4	50,987.1	10,814.2	322,661.8	322,661.8		90,003.6	124,292.6	164,222.1	854,915.1
Sep	126,590.7	73,610.4	52,980.2	1,090.2	309,222.8	309,222.8		90,529.8	105,499.2	158,123.1	791,028.2
Oct	127,985.3	75,415.5	52,549.4	243.4	358,959.4	358,959.4		96,557.0	145,292.1	170,674.1	899,714.5
Nov	128,708.3	73,547.6	55,181.6	2,285.2	313,415.9	313,415.9		104,681.6	95,540.6	128,184.1	772,821.5
Dec	149,065.9	87,710.9	61,375.3	101.4	361,759.4	361,759.4		96,333.9	125,002.7	114,716.0	846,952.6
YTD	145,195.9	84,208.1	60,987.7	3,349.3	356,914.9	356,853.0	63.5	103,142.5	118,117.5	147,108.6	873,828.6

2009											
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total		
	Total	Regular		Premium	Total					HSD	LSD
Jan	158,622.2	78,783.6	79,838.6	770.9	366,446.2	366,446.2		98,626.6	123,521.6	134,782.2	882,775.8
Feb	144,034.2	82,417.5	61,616.6	741.2	337,689.7	337,689.7		102,162.7	132,106.2	133,072.1	849,811.9
Mar	154,868.7	90,754.3	64,114.3	1,460.8	403,778.6	403,778.6		110,029.2	138,048.8	146,996.4	955,188.1
Apr	153,384.9	93,590.7	59,794.1	1,593.3	404,218.2	404,218.2		89,921.7	113,424.3	146,633.9	909,188.9
May	159,312.1	99,823.6	59,508.7	973.8	408,222.0	408,222.0		101,487.4	118,449.3	159,575.8	948,008.3
Jun	158,961.7	102,564.1	56,397.6	1,656.2	386,376.5	386,376.5		95,498.6	124,095.8	156,215.2	922,811.0
Jul	155,355.6	89,435.5	65,940.4	2,657.9	393,634.0	393,634.0		115,527.6	120,336.2	167,143.8	954,665.7
Aug	150,831.1	86,432.7	64,398.4	608.6	378,498.1	378,498.1		106,133.6	114,634.9	167,813.3	918,520.6
Sep	150,177.1	88,202.6	61,974.5	1,761.1	412,394.9	412,394.9		93,821.4	121,412.2	165,167.6	944,735.1
Oct	150,242.7	87,913.8	62,328.9	1,724.5	394,465.8	394,465.8		118,043.5	100,148.3	166,636.5	931,264.3
Nov	143,719.7	80,675.9	63,022.8	3,459.3	378,304.7	378,304.7		106,086.3	108,497.3	170,492.9	910,562.8
Dec	150,019.5	92,255.7	57,763.8	1,765.1	382,535.7	382,535.7		97,267.2	109,948.0	174,732.0	916,259.9
YTD	152,539.9	89,439.5	63,100.3	1,600.8	387,531.9	387,531.9		102,961.5	118,628.9	157,616.5	920,879.0

Table 2.3.1-2M Production of Petroleum Products (Cont.)

Unit : Barrels/Day

Month	2010									
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	145,373.3	79,331.4	66,041.8	3,327.4	369,286.7	369,286.7	107,716.2	110,820.5	173,088.5	909,594.1
Feb	148,571.7	85,989.2	62,560.0	134.7	387,243.5	387,243.5	110,878.4	113,551.6	176,021.8	936,409.5
Mar	144,561.7	90,287.6	54,274.0	1,359.3	413,334.9	413,334.9	115,263.8	114,026.2	181,894.1	970,453.3
Apr	154,957.3	98,370.9	56,586.3	440.2	381,952.7	381,952.7	111,893.8	102,857.6	171,939.5	924,034.7
May	152,515.1	89,435.5	63,079.6	2,576.7	421,065.2	421,065.2	96,110.7	111,834.9	177,633.4	961,703.4
Jun	155,502.4	91,703.8	63,798.5	5,115.6	408,306.6	408,306.6	101,536.7	104,702.6	181,982.0	957,128.9
Jul	150,547.1	90,734.0	59,813.0	5,133.2	410,514.7	410,514.7	105,301.8	94,548.4	171,830.6	937,882.5
Aug	154,848.4	95,136.8	59,711.6	6,188.2	413,132.0	413,132.0	119,991.3	92,681.8	181,833.3	968,693.9
Sep	157,053.9	94,261.6	62,792.2	23,565.4	404,281.1	404,281.1	102,815.6	100,404.6	193,198.7	981,298.5
Oct	145,312.4	92,174.5	53,137.8	33,518.0	397,793.3	397,793.3	90,531.1	98,606.3	186,601.3	952,366.2
Nov	139,631.4	86,672.1	52,980.2	11,719.8	391,722.7	391,722.7	104,597.7	100,194.9	181,332.1	929,201.2
Dec	163,248.2	102,542.4	60,705.7	2,982.5	418,407.3	418,407.3	114,797.2	97,246.9	197,983.6	994,668.8
YTD	151,020.0	91,416.1	59,603.9	8,042.2	401,589.8	401,589.8	106,771.5	103,388.9	181,312.3	952,124.9

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.2-1M Sale of Petroleum Products

Unit : Million Litres

2006											
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total		
	Total	Regular		Premium	Total					HSD	LSD
Jan	603.9	364.4	239.5	1.6	1,617.2	1,612.3	4.9	410.8	495.3	386.3	3,515.1
Feb	545.2	331.1	214.1	1.5	1,530.4	1,526.1	4.3	369.0	618.3	362.4	3,426.8
Mar	623.6	378.3	245.2	1.8	1,732.5	1,726.2	6.3	395.8	612.0	400.3	3,766.0
Apr	608.8	371.3	237.5	1.5	1,569.7	1,561.5	8.2	372.1	547.3	371.8	3,471.2
May	607.5	380.2	227.3	1.6	1,629.7	1,625.2	4.5	364.8	538.3	411.2	3,553.0
Jun	591.5	374.9	216.6	1.6	1,477.7	1,474.1	3.6	347.4	627.2	406.0	3,451.4
Jul	596.2	379.1	217.1	1.7	1,441.2	1,435.5	5.7	361.5	550.2	443.3	3,393.9
Aug	592.2	381.2	211.0	1.7	1,438.6	1,433.6	5.0	362.2	482.7	468.8	3,346.1
Sep	583.3	380.1	203.2	1.7	1,372.2	1,368.7	3.6	353.0	386.2	455.8	3,152.2
Oct	607.3	397.8	209.5	1.7	1,432.7	1,429.5	3.2	372.5	338.8	463.9	3,216.8
Nov	620.1	406.6	213.4	1.6	1,536.2	1,531.3	4.8	389.2	321.5	443.2	3,311.7
Dec	635.6	413.7	221.8	1.6	1,592.9	1,587.8	5.0	420.2	333.6	461.3	3,445.2
Total	7,215.1	4,558.9	2,656.3	19.7	18,371.0	18,311.8	59.2	4,518.5	5,851.3	5,074.4	41,050.0

2007											
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total		
	Total	Regular		Premium	Total					HSD	LSD
Jan	612.9	403.3	209.6	1.5	1,644.7	1,640.2	4.5	441.4	320.3	466.8	3,487.6
Feb	572.9	372.9	199.9	1.4	1,501.4	1,497.7	3.7	414.4	339.4	430.5	3,260.0
Mar	634.0	417.5	216.5	1.7	1,718.7	1,714.6	4.0	428.6	386.2	471.2	3,640.3
Apr	613.6	402.7	210.9	1.3	1,573.5	1,570.5	3.0	405.5	376.1	441.0	3,411.0
May	604.7	395.5	209.1	1.5	1,562.3	1,560.4	1.9	413.0	350.7	471.4	3,403.6
Jun	618.1	402.7	215.5	1.8	1,574.7	1,573.0	1.7	376.3	356.5	475.0	3,402.4
Jul	617.7	400.3	217.4	1.5	1,498.4	1,496.0	2.4	395.9	297.9	485.8	3,297.1
Aug	638.0	411.7	226.3	1.4	1,555.3	1,553.4	1.9	411.1	309.7	513.6	3,429.2
Sep	593.7	374.4	219.2	1.6	1,436.6	1,433.7	2.9	386.4	388.6	494.9	3,301.8
Oct	620.4	387.4	233.0	1.8	1,499.5	1,496.4	3.0	400.3	434.4	518.6	3,474.9
Nov	589.3	362.9	226.3	1.5	1,533.8	1,531.6	2.2	420.1	328.2	523.6	3,396.5
Dec	621.5	380.1	241.4	1.3	1,610.8	1,609.5	1.4	438.7	333.4	519.7	3,525.4
Total	7,336.8	4,711.6	2,625.2	18.2	18,709.7	18,676.9	32.8	4,931.8	4,221.5	5,812.4	41,030.4

Table 2.3.2-1M Sale of Petroleum Products (Cont.)

Unit : Million Litres

2008										
Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	602.4	370.3	232.1	1.6	1,629.1	1,627.7	1.4	456.8	304.5	3,539.6
Feb	578.7	353.9	224.7	1.4	1,521.6	1,519.4	2.2	440.9	273.1	3,332.1
Mar	603.7	373.8	229.9	1.4	1,696.2	1,694.2	1.9	433.0	358.8	3,640.7
Apr	603.2	374.3	228.9	1.5	1,613.1	1,611.8	1.3	410.1	439.7	3,592.8
May	578.8	362.5	216.3	1.5	1,548.8	1,546.9	1.9	397.1	289.5	3,387.0
Jun	558.7	354.3	204.5	1.4	1,361.7	1,361.1	0.6	377.5	231.5	3,088.2
Jul	558.5	350.5	208.0	1.2	1,246.1	1,246.1	0.1	371.5	246.6	3,044.1
Aug	588.3	355.0	233.3	1.2	1,325.3	1,325.3		369.1	257.5	3,150.3
Sep	568.1	334.1	234.0	1.2	1,276.2	1,276.2		336.2	234.4	3,012.3
Oct	599.9	350.7	249.2	1.1	1,394.8	1,394.8		387.0	226.7	3,228.6
Nov	598.0	343.7	254.3	1.0	1,402.9	1,402.9		335.6	203.3	3,107.2
Dec	682.3	388.4	293.9	1.1	1,627.1	1,627.1		321.6	221.7	3,408.0
Total	7,120.6	4,311.4	2,809.2	15.7	17,643.0	17,633.6	9.4	4,636.5	3,287.3	39,531.4

2009										
Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	665.2	378.3	286.9	1.0	1,718.1	1,718.1		396.2	226.4	3,564.5
Feb	588.5	333.5	255.0	1.4	1,439.3	1,439.3		364.7	212.2	3,094.8
Mar	662.0	373.0	289.0	1.7	1,627.1	1,627.1		404.7	214.3	3,468.6
Apr	634.5	357.3	277.1	1.2	1,587.3	1,587.3		344.5	195.0	3,293.7
May	652.0	367.9	284.1	1.3	1,660.3	1,660.3		349.2	215.0	3,435.0
Jun	607.9	345.4	262.5	1.4	1,459.2	1,459.2		322.0	216.7	3,170.0
Jul	630.9	361.6	269.3	1.3	1,472.0	1,472.0		356.3	218.8	3,277.0
Aug	616.4	352.9	263.5	1.4	1,446.3	1,446.3		362.9	224.4	3,262.0
Sep	600.1	346.3	253.8	1.7	1,394.4	1,394.4		346.5	230.5	3,160.7
Oct	623.3	358.1	265.2	1.7	1,472.3	1,472.3		377.7	295.2	3,381.8
Nov	587.1	339.2	248.0	1.6	1,473.9	1,473.9		390.4	222.7	3,275.8
Dec	656.4	378.0	278.4	1.9	1,715.0	1,715.0		416.3	259.7	3,679.3
Total	7,524.4	4,291.6	3,232.8	17.6	18,465.3	18,465.3		4,431.5	2,730.9	40,063.9

Oil

Table 2.3.2-1M Sale of Petroleum Products (Cont.)

Unit : Million Litres

Month	2010									
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	605.8	349.6	256.2	1.8	1,565.5		433.6	210.2	625.0	3,441.9
Feb	591.6	351.7	240.0	1.4	1,546.2		398.1	296.0	589.0	3,422.2
Mar	620.3	376.2	244.1	1.5	1,688.0		436.0	292.4	638.8	3,677.0
Apr	607.4	367.3	240.1	1.1	1,548.3		383.4	218.9	598.5	3,357.5
May	599.1	365.7	233.5	1.9	1,588.3		342.0	223.7	613.2	3,368.1
Jun	617.0	377.0	240.0	1.1	1,508.8		340.6	206.2	621.5	3,295.2
Jul	636.6	388.3	248.4	1.0	1,516.6		365.2	250.8	645.2	3,415.4
Aug	619.0	377.3	241.8	0.9	1,431.3		396.9	215.6	649.9	3,313.6
Sep	607.4	373.5	233.9	1.1	1,404.0		369.4	198.5	634.8	3,215.0
Oct	615.7	378.7	237.1	1.2	1,435.1		398.7	193.7	647.0	3,291.3
Nov	632.0	391.2	240.8	1.1	1,582.6		406.4	200.0	648.0	3,470.1
Dec	664.6	412.7	251.9	1.1	1,665.5		441.5	109.3	676.5	3,558.4
Total	7,416.8	4,509.2	2,907.6	15.3	18,480.1		4,711.7	2,615.2	7,587.3	40,826.2

Source : Department of Energy Business (DOEB)
 Compiled by : Energy Policy and Planning Office (EPPO)
 * Excluding LPG used as Feedstock in Petrochemical Industry

Table 2.3.2-2M Sale of Petroleum Products

Unit : Barrels/Day

2006											
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total		
	Total	Regular		Premium	Total					HSD	LSD
Jan	122,527.4	73,934.4	48,593.0	324.6	328,119.6	327,125.4	994.1	83,348.7	100,493.2	78,377.8	713,205.4
Feb	122,469.5	74,375.7	48,093.7	336.9	343,777.2	342,811.3	965.9	82,889.3	138,890.1	81,406.7	769,772.0
Mar	126,524.4	76,754.6	49,749.5	365.2	351,513.2	350,235.0	1,278.2	80,305.3	124,170.9	81,218.3	764,105.3
Apr	127,639.0	77,845.5	49,793.4	314.4	329,098.2	327,379.0	1,719.1	78,013.2	114,745.1	77,950.3	727,770.0
May	123,257.9	77,140.1	46,117.7	324.6	330,655.8	329,742.7	913.0	74,015.6	109,217.6	83,429.8	720,897.6
Jun	124,011.9	78,600.3	45,411.6	335.4	309,809.8	309,055.0	754.7	72,834.7	131,496.7	85,120.6	723,628.0
Jul	120,965.2	76,916.9	44,048.2	344.9	292,410.3	291,253.8	1,156.4	73,346.0	111,632.0	89,942.7	688,611.9
Aug	120,153.6	77,343.0	42,810.5	344.9	291,882.8	290,868.3	1,014.4	73,488.0	97,936.7	95,116.5	678,920.8
Sep	122,292.8	79,690.5	42,602.2	356.4	287,691.0	286,957.2	754.7	74,008.8	80,969.4	95,561.5	660,885.1
Oct	123,217.3	80,711.1	42,506.2	344.9	290,685.7	290,036.5	649.2	75,577.8	68,740.3	94,122.3	652,680.5
Nov	130,008.1	85,246.4	44,740.7	335.4	322,074.7	321,047.4	1,006.3	81,598.4	67,404.6	92,919.8	694,335.8
Dec	128,959.2	83,937.1	45,001.8	324.6	323,189.3	322,154.5	1,014.4	85,255.9	67,685.3	93,594.8	699,010.0
YTD	124,331.0	78,559.2	45,773.5	339.4	316,570.2	315,550.1	1,020.1	77,863.0	100,829.9	87,442.3	707,376.9

2007											
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total		
	Total	Regular		Premium	Total					HSD	LSD
Jan	124,353.5	81,827.0	42,526.5	304.3	333,699.2	332,786.1	913.0	89,557.2	64,986.8	94,710.7	707,613.9
Feb	128,691.8	83,765.3	44,903.9	314.4	337,262.9	336,431.7	831.1	93,087.6	76,240.1	96,704.1	732,304.2
Mar	128,634.5	84,708.1	43,926.4	344.9	348,713.3	347,881.4	811.5	86,960.2	78,357.5	95,603.4	738,611.5
Apr	128,645.4	84,428.7	44,216.6	272.5	329,894.9	329,265.9	628.9	85,015.8	78,851.9	92,458.6	715,144.6
May	122,689.8	80,244.4	42,425.0	304.3	316,980.7	316,595.2	385.4	83,795.0	71,154.8	95,644.0	690,583.3
Jun	129,588.8	84,428.7	45,181.0	377.3	330,146.5	329,790.1	356.4	78,893.8	74,742.6	99,586.9	713,355.1
Jul	125,327.4	81,218.3	44,109.0	304.3	304,015.8	303,528.9	486.9	80,325.6	60,442.0	98,565.7	668,980.1
Aug	129,446.1	83,531.3	45,914.8	284.0	315,560.5	315,175.0	385.4	83,409.5	62,836.1	104,206.1	695,768.9
Sep	124,473.2	78,495.5	45,956.7	335.4	301,192.9	300,584.9	608.0	81,011.3	81,472.6	103,759.1	692,253.0
Oct	125,875.2	78,601.0	47,274.2	365.2	304,239.0	303,610.0	608.6	81,218.3	88,137.0	105,220.6	705,037.7
Nov	123,550.7	76,084.4	47,445.3	314.4	321,571.5	321,110.3	461.2	88,076.8	68,809.3	109,776.2	712,111.7
Dec	126,098.4	77,119.8	48,978.5	263.7	326,821.1	326,557.3	284.0	89,009.4	67,644.7	105,443.8	715,298.2
YTD	126,428.2	81,190.5	45,237.6	313.6	322,406.7	321,841.5	565.2	84,985.0	72,745.1	100,159.6	707,038.8

Oil

Table 2.3.2-2M Sale of Petroleum Products (Cont.)

Unit : Barrels/Day

2008											
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total		
	Total	Regular		Premium	Total					HSD	LSD
Jan	122,223.1	75,131.5	47,091.6	324.6	330,534.0	330,250.0	284.0	92,681.8	61,781.1	110,617.6	718,177.5
Feb	129,994.6	79,497.3	50,474.8	314.4	341,800.4	341,306.2	494.1	99,040.3	61,347.0	116,022.5	748,499.3
Mar	122,486.9	75,841.6	46,645.2	284.0	344,148.2	343,742.4	385.4	87,852.9	72,798.2	111,104.5	738,685.4
Apr	126,464.9	78,474.5	47,990.4	314.4	338,197.3	337,924.8	272.5	85,980.2	92,186.0	110,090.7	753,265.9
May	117,434.8	73,548.9	43,885.9	304.3	314,241.7	313,856.2	385.4	80,569.0	58,737.7	115,913.1	687,207.0
Jun	117,135.2	74,281.4	42,874.8	293.5	285,489.6	285,363.8	125.7	79,145.4	48,535.5	116,841.7	647,465.9
Jul	113,316.1	71,114.2	42,201.8	243.4	252,825.8	252,825.8	20.2	75,374.9	50,033.5	125,834.6	617,641.6
Aug	119,362.3	72,027.2	47,335.0	243.4	268,894.9	268,894.9		74,888.0	52,245.1	123,562.2	639,176.1
Sep	119,106.0	70,046.3	49,059.6	251.5	267,563.9	267,563.9		70,486.6	49,143.5	124,997.3	631,553.5
Oct	121,715.9	71,154.8	50,561.1	223.1	282,996.0	282,996.0		78,519.8	45,995.9	125,611.4	655,068.5
Nov	125,374.7	72,059.0	53,315.7	209.6	294,127.5	294,127.5		70,360.8	42,623.2	118,770.5	651,465.8
Dec	138,434.3	78,803.9	59,630.4	223.1	330,128.2	330,128.2		65,250.6	44,981.5	112,463.9	691,475.7
YTD	122,367.3	74,091.3	48,276.0	269.8	303,194.6	303,033.1	161.5	79,678.1	56,492.1	117,345.9	679,346.7
2009											
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total		
	Total	Regular		Premium	Total					HSD	LSD
Jan	134,964.8	76,754.6	58,210.1	202.8	348,591.6	348,591.6		80,386.4	45,935.1	113,133.5	723,233.6
Feb	132,196.0	74,914.8	57,281.2	314.4	323,313.2	323,313.2		81,923.3	47,666.9	109,800.2	695,210.0
Mar	134,315.6	75,679.3	58,636.2	344.9	330,128.2	330,128.2		82,111.0	43,480.1	113,397.2	703,759.1
Apr	133,027.2	74,910.3	58,095.8	251.5	332,788.2	332,788.2		72,226.7	40,883.0	111,369.6	690,547.2
May	132,286.6	74,644.5	57,642.0	263.7	336,864.3	336,864.3		70,850.4	43,622.1	113,052.3	696,959.5
Jun	127,450.3	72,415.4	55,034.9	293.5	305,931.1	305,931.1		67,509.4	45,432.6	117,994.8	664,627.9
Jul	128,005.6	73,366.3	54,639.2	263.7	298,659.4	298,659.4		72,291.0	44,393.1	121,269.5	664,889.2
Aug	125,063.6	71,601.1	53,462.4	284.0	293,445.1	293,445.1		73,630.1	45,529.3	123,886.8	661,856.6
Sep	125,815.0	72,604.1	53,210.8	356.4	292,345.4	292,345.4		72,646.0	48,325.8	123,194.3	662,682.9
Oct	126,463.6	72,656.2	53,807.4	344.9	298,720.3	298,720.3		76,632.9	59,894.2	124,089.7	686,163.6
Nov	123,089.5	71,115.5	51,994.8	335.4	309,013.1	309,013.1		81,850.0	46,690.5	125,815.0	686,804.5
Dec	133,179.4	76,693.8	56,485.5	385.4	347,962.6	347,962.6		84,464.6	52,691.4	127,843.3	746,522.6
YTD	129,660.9	73,953.1	55,707.8	303.2	318,195.2	318,195.2		76,363.8	47,059.0	118,803.0	690,385.4

Table 2.3.2-2M Sale of Petroleum Products (Cont.)

Unit : Barrels/Day

Month	2010									
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	122,912.9	70,931.6	51,981.3	365.2	317,630.0	317,630.0	87,974.6	42,648.2	126,808.5	698,356.4
Feb	132,892.4	79,003.1	53,911.7	314.4	347,326.4	347,326.4	89,426.1	49,284.3	132,308.4	751,568.2
Mar	125,854.9	76,328.5	49,526.3	304.3	342,484.5	342,484.5	88,461.6	59,326.1	129,608.4	746,041.0
Apr	127,345.5	77,006.9	50,338.5	230.6	324,611.6	324,611.6	80,382.4	45,893.8	125,479.5	703,931.2
May	121,553.5	74,198.2	47,375.6	385.4	322,256.0	322,256.0	69,389.6	45,387.3	124,414.3	683,378.7
Jun	129,358.2	79,040.6	50,317.6	230.6	316,330.1	316,330.1	71,409.1	43,231.2	130,301.6	690,864.6
Jul	129,162.1	78,783.6	50,398.7	202.8	307,708.5	307,708.5	74,096.7	50,885.7	130,906.9	692,969.7
Aug	125,591.1	76,551.7	49,059.6	182.6	290,401.7	290,401.7	80,528.4	43,743.8	131,860.5	672,311.8
Sep	127,345.5	78,306.8	49,038.7	230.6	294,358.1	294,358.1	77,447.2	41,616.8	133,090.1	674,058.5
Oct	124,921.6	76,835.8	48,106.0	243.4	291,172.7	291,172.7	80,893.7	39,300.5	131,272.2	667,793.5
Nov	132,503.0	82,017.7	50,485.3	230.6	331,802.8	331,802.8	85,204.5	41,931.3	135,857.6	727,531.2
Dec	134,843.1	83,734.2	51,108.9	223.1	337,919.4	337,919.4	89,577.5	37,697.6	137,257.5	737,521.1
YTD	127,806.7	77,702.8	50,103.9	263.6	318,450.2	318,450.2	81,192.3	45,065.2	130,744.8	703,520.6

Source : Department of Energy Business (DOEB)
 Compiled by : Energy Policy and Planning Office (EPPO)
 * Excluding LPG used as Feedstock in Petrochemical Industry

Table 2.3.3-1M Import of Petroleum Products

Unit : Million Litres

2006									
Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*
	Total	Regular	Premium	Total	HSD	LSD			
Jan				6.5	6.5		14.1	97.0	117.6
Feb				8.2	8.2		0.6	91.7	100.6
Mar				48.9	48.9			135.1	183.9
Apr				125.4	125.4		17.4	220.9	363.6
May				3.1	3.1		0.1	157.3	160.5
Jun				6.3	6.3			81.7	88.0
Jul				8.6	8.6			185.2	193.7
Aug				22.3	22.3			74.0	96.3
Sep				6.1	6.1		0.2	53.9	60.2
Oct				55.7	55.7		0.6	8.1	64.3
Nov				9.3	9.3		0.4		9.7
Dec				64.4	64.4		0.4		64.7
Total				364.8	364.8		33.9	1,105.0	1,503.7

2007									
Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*
	Total	Regular	Premium	Total	HSD	LSD			
Jan				7.4	7.4		16.3		23.7
Feb				22.2	22.2		23.7		45.9
Mar	73.1	60.3	12.8	56.8	56.8		0.6		130.5
Apr	17.9	13.6	4.2	24.7	24.7		0.2	91.2	134.0
May	13.2	13.2		29.0	29.0		0.2	14.3	56.6
Jun	40.2	30.3	9.9	21.2	21.2		0.1	56.2	117.7
Jul	17.8	17.8		9.2	9.2		0.4	40.9	68.2
Aug				3.0	3.0		0.3	9.8	13.2
Sep				9.2	9.2		0.2	84.0	93.4
Oct							0.2	85.5	85.7
Nov				5.1	5.1		0.2	152.8	158.1
Dec				3.0	3.0		0.2	1.4	4.6
Total	162.1	135.2	26.9	191.0	191.0		42.8	536.3	932.1

Table 2.3.3-1M Import of Petroleum Products (Cont.)

Unit : Million Litres

2008										
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total	
	Total	Regular		Total	HSD					
Jan						8.1			8.0	
Feb				2.4	2.4	0.2			2.6	
Mar				6.1	6.1	0.2	58.1		64.4	
Apr				58.5	58.5	0.3	190.4	39.8	289.0	
May				3.0	3.0	0.2	5.7		8.9	
Jun						0.3			0.2	
Jul						0.1		203.6	203.7	
Aug						0.3		126.3	126.5	
Sep				8.3	8.3	36.8		128.5	173.6	
Oct				2.2	2.2	0.4		165.9	168.4	
Nov				3.0	3.0	0.2		173.1	176.4	
Dec				6.0	6.0	0.6			6.6	
Total				89.6	89.6	47.9	254.3	837.2	1,229.0	

2009										
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total	
	Total	Regular		Total	HSD					
Jan				22.6	22.6	0.2		37.0	59.8	
Feb	6.6	6.6		120.6	120.6				127.2	
Mar	7.5	7.5		201.2	201.2	0.3		42.5	251.4	
Apr				3.0	3.0	0.3		26.5	29.7	
May				4.3	4.3	0.3		123.8	128.3	
Jun				5.9	5.9	8.3		81.3	95.5	
Jul				3.0	3.0	0.2		125.3	128.5	
Aug				6.1	6.1	0.3	6.6	168.0	180.9	
Sep				3.0	3.0	0.2	15.4	166.2	184.7	
Oct				3.1	3.1	0.2	18.0	207.0	228.2	
Nov				6.2	6.2	0.2	43.2	206.9	256.5	
Dec				6.1	6.1	0.1		210.2	216.4	
Total	14.1	14.1		385.3	385.3	10.5	83.2	1,394.7	1,887.7	

Oil

Table 2.3.3-1M Import of Petroleum Products (Cont.)

Unit : Million Litres

Month	2010									
	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total	
	Total	Regular		Total	HSD					
Jan				3.0	3.0	0.3		310.2	313.5	
Feb				6.0	6.0	0.2	1.5	206.8	214.5	
Mar				3.1	3.1	0.3	47.6	233.3	284.2	
Apr				6.0	6.0	0.4	1.5	232.3	240.1	
May				6.0	6.0	0.5		327.7	334.1	
Jun				6.0	6.0	0.1	3.2	240.7	249.9	
Jul				3.1	3.1	0.4	20.2	168.2	191.9	
Aug				3.1	3.1		20.2	252.4	275.6	
Sep				6.4	6.4	0.2	6.9	251.2	264.6	
Oct				6.3	6.3	0.3		275.7	282.3	
Nov				6.3	6.3	0.2		264.9	271.3	
Dec				6.2	6.2	0.2		290.3	296.8	
Total				61.2	61.2	3.3	101.2	3,053.6	3,219.3	

Source : Department of Energy Business (DOEB)
 Compiled by : Energy Policy and Planning Office (EPPO)
 * Including Propane and Butane

Table 2.3.3-2M Import of Petroleum Products

Unit : Barrels/Day

2006									
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular		Total	HSD				
Jan	1,318.8			1,318.8	1,318.8	2,860.8	19,680.6		23,860.9
Feb	1,841.9			1,841.9	1,841.9	134.7	20,598.7		22,598.4
Mar	9,921.5			9,921.5	9,921.5		27,410.9		37,318.4
Apr	26,290.9			26,290.9	26,290.9	3,648.0	46,313.1		76,244.2
May	628.9			628.9	628.9	20.2	31,915.1		32,582.6
Jun	1,320.8			1,320.8	1,320.8		17,128.9		18,449.7
Jul	1,744.8			1,744.8	1,744.8		37,575.9		39,318.1
Aug	4,524.5			4,524.5	4,524.5		15,014.1		19,553.2
Sep	1,278.9			1,278.9	1,278.9	41.9	11,300.5		12,630.7
Oct	11,301.1			11,301.1	11,301.1	121.7	1,643.4		13,064.7
Nov	1,949.8			1,949.8	1,949.8	83.8			2,044.9
Dec	13,066.3			13,066.3	13,066.3	81.1			13,140.4
YTD	6,286.2			6,286.2	6,286.2	584.1	19,041.4		25,911.9

2007									
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular		Total	HSD				
Jan	1,501.4			1,501.4	1,501.4	3,307.1			4,815.0
Feb	4,986.8			4,986.8	4,986.8	5,323.7			10,314.6
Mar	14,831.5	12,234.4	2,597.0	11,524.3	11,524.3	121.7			26,490.8
Apr	3,752.8	2,851.3	880.5	5,178.5	5,178.5	41.9	19,120.6		28,094.4
May	2,678.1	2,678.1		5,883.9	5,883.9	40.5	2,901.3		11,497.1
Jun	8,428.2	6,352.6	2,075.6	4,444.7	4,444.7	20.9	11,782.7		24,681.2
Jul	3,611.5	3,611.5		1,866.6	1,866.6	81.1	8,298.3		13,856.8
Aug				608.6	608.6	60.8	1,988.3		2,682.4
Sep				1,928.8	1,928.8	41.9	17,611.1		19,596.2
Oct						40.5	17,347.4		17,394.4
Nov				1,069.2	1,069.2	41.9	32,035.5		33,153.8
Dec				608.6	608.6	40.5	284.0		951.3
YTD	2,793.3	2,329.7	463.5	3,291.3	3,291.3	737.5	9,241.5		16,062.7

Oil

Table 2.3.3-2M Import of Petroleum Products (Cont.)

Unit : Barrels/Day

2008									
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD				
Jan						1,643.4			1,642.6
Feb				539.1	539.1	44.9			605.1
Mar				1,237.6	1,237.6	40.5	11,788.1		13,067.1
Apr				12,264.9	12,264.9	62.8	39,918.6	8,344.3	60,607.8
May				608.6	608.6	40.5	1,156.4		1,818.5
Jun						62.8			56.1
Jul						20.2		41,309.1	41,336.3
Aug						60.8		25,625.4	25,679.4
Sep				1,740.1	1,740.1	7,715.3		26,940.8	36,405.6
Oct				446.3	446.3	81.1		33,660.0	34,183.9
Nov				628.9	628.9	41.9		36,291.5	36,989.9
Dec				1,217.3	1,217.3	121.7			1,347.0
YTD				1,539.7	1,539.7	823.1	4,370.1	14,387.2	21,120.3

2009									
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD				
Jan				4,585.3	4,585.3	40.5		7,507.0	12,145.9
Feb	1,482.5	1,482.5		27,090.6	27,090.6				28,585.8
Mar	1,521.7	1,521.7		40,822.2	40,822.2	60.8		8,622.9	51,012.5
Apr				628.9	628.9	62.8		5,555.9	6,246.5
May				872.4	872.4	60.8		25,118.2	26,049.6
Jun				1,236.9	1,236.9	1,740.1		17,045.0	20,023.1
Jul				608.6	608.6	40.5		25,422.5	26,078.1
Aug				1,237.6	1,237.6	60.8	1,339.0	34,086.1	36,721.5
Sep				628.9	628.9	41.9	3,228.7	34,844.9	38,743.5
Oct				628.9	628.9	40.5	3,652.0	41,998.9	46,312.2
Nov				1,299.8	1,299.8	41.9	9,057.1	43,377.9	53,783.2
Dec				1,237.6	1,237.6	20.2		42,648.2	43,907.6
YTD	242.9	242.9		6,639.5	6,639.5	180.9	1,433.7	24,033.5	32,529.7

Table 2.3.3-2M Import of Petroleum Products (Cont.)

Unit: Barrels/Day

Month	2010									
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan				608.6	608.6		60.8		62,937.6	63,608.6
Feb				1,347.7	1,347.7		44.9	336.9	46,453.9	48,185.7
Mar				628.9	628.9		60.8	9,657.7	47,335.0	57,680.9
Apr				1,257.9	1,257.9		83.8	314.4	48,703.2	50,348.8
May				1,217.3	1,217.3		101.4		66,488.2	67,800.0
Jun				1,257.9	1,257.9		20.9	670.9	50,464.3	52,406.7
Jul				628.9	628.9		81.1	4,098.4	34,126.7	38,936.7
Aug				628.9	628.9			4,098.4	51,210.3	55,933.8
Sep				1,341.8	1,341.8		41.9	1,446.6	52,665.7	55,494.1
Oct				1,278.2	1,278.2		60.8		55,937.7	57,278.0
Nov				1,320.8	1,320.8		41.9		55,538.0	56,891.1
Dec				1,257.9	1,257.9		40.5		58,900.0	60,223.5
YTD				1,054.6	1,054.6		56.8	1,743.8	52,619.8	55,476.0

Source : Department of Energy Business (DOEB)
 Compiled by : Energy Policy and Planning Office (EPPO)
 * Including Propane and Butane

Table 2.3.4-1M Export of Petroleum Products

Unit : Million Litres

2006										
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total	
	Total	Regular	Premium	Total	HSD					
Jan	176.7	48.4	128.4	224.4	224.4	43.9	86.6	190.6	722.3	
Feb	149.8	55.0	94.8	147.4	147.4	119.2	105.5	104.1	625.9	
Mar	131.1	39.4	91.7	150.0	150.0	46.9	71.3	91.6	505.9	
Apr	200.9	25.8	175.2	122.1	122.1	2.6	135.1	117.2	577.9	
May	192.9	66.2	126.7	145.7	145.7	3.5	106.2	99.4	547.7	
Jun	157.2	64.9	92.2	198.7	198.7	14.8	96.5	73.2	540.3	
Jul	184.3	55.0	129.4	322.1	322.1	128.6	140.3	65.1	840.3	
Aug	190.2	53.6	136.6	370.4	370.4	181.0	153.7	56.0	955.9	
Sep	162.9	36.8	126.1	374.1	374.1	138.9	118.7	53.0	857.3	
Oct	118.5	24.5	94.1	348.0	348.0	47.0	60.1	62.2	635.9	
Nov	150.9	21.6	129.3	323.7	323.7	155.2	115.6	57.1	807.2	
Dec	106.3	23.2	83.0	213.8	213.8	135.6	228.9	97.7	782.2	
Total	1,921.9	514.4	1,407.5	34.0	2,940.5	1,017.3	1,418.6	1,067.2	8,399.3	

2007										
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total	
	Total	Regular	Premium	Total	HSD					
Jan	126.7	33.8	92.9	163.4	163.4	100.0	127.7	65.8	583.5	
Feb	123.4	33.4	89.9	137.6	137.6	49.1	133.7	100.4	554.3	
Mar	162.1	35.5	126.6	197.8	197.8	8.9	151.6	50.1	570.5	
Apr	166.5	36.8	129.8	143.9	143.9	6.0	168.7	53.5	543.8	
May	185.7	34.3	151.5	211.7	211.7	131.9	265.5	58.5	853.2	
Jun	134.1	32.4	101.7	226.6	226.6	33.0	213.7	36.9	649.6	
Jul	80.5	30.1	50.4	173.5	173.5	17.0	154.0	30.1	462.1	
Aug	119.2	33.8	85.5	216.3	216.3	32.5	243.5	29.5	645.9	
Sep	116.0	31.8	84.2	244.5	244.5	4.9	196.6	19.1	585.6	
Oct	132.4	122.0	10.4	336.4	336.4	5.7	193.6	29.2	697.2	
Nov	73.3	59.0	14.3	363.8	363.8	7.0	333.9	21.7	799.7	
Dec	158.9	60.3	98.6	274.0	274.0	53.0	295.4	19.2	800.4	
Total	1,578.9	543.2	1,035.7	37.2	2,689.5	449.0	2,478.0	514.0	7,746.6	

Table 2.3.4-1M Export of Petroleum Products (Cont.)

Unit : Million Litres

2008										
Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	191.4	51.4	140.1	258.8	258.8		99.2	284.8	16.4	850.7
Feb	137.8	37.4	100.4	149.5	149.5		98.8	284.8	11.6	682.4
Mar	146.6	48.3	98.3	302.9	302.9		99.8	320.1		878.9
Apr	205.0	71.9	133.1	234.4	234.4		114.9	251.4	0.1	805.7
May	83.1	30.7	52.3	377.5	377.5		66.5	327.1	2.8	907.4
Jun	187.6	61.6	125.9	315.1	315.1		55.9	240.1	0.1	798.8
Jul	176.7	86.6	90.1	429.4	429.4		115.4	205.6	0.1	927.1
Aug	128.7	105.3	23.4	405.0	405.0		113.6	387.2	0.1	1,082.9
Sep	63.4	36.3	27.0	285.9	285.9		98.0	275.1	0.2	722.6
Oct	33.4	20.7	12.7	338.5	338.5		134.2	418.6	0.7	925.4
Nov	34.0	21.9	12.1	331.5	331.5		111.1	205.5	5.0	687.0
Dec	90.8	75.8	14.9	378.0	378.0		239.3	424.0	2.1	1,134.1
Total	1,478.4	648.0	830.4	3,806.3	3,806.3		1,346.8	3,624.3	39.3	10,403.6
2009										
Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	133.5	29.8	103.7	282.0	282.0		101.4	399.8	2.0	918.7
Feb	52.6	41.8	10.8	145.5	145.5		104.8	323.8	1.6	628.2
Mar	72.3	59.0	13.3	244.0	244.0		54.2	327.3	1.8	699.6
Apr	124.9	111.9	12.9	352.9	352.9		77.9	328.0	2.1	885.7
May	120.4	107.4	13.0	600.5	600.5		197.6	278.4	2.8	1,199.7
Jun	158.1	146.6	11.5	275.9	275.9	6.4	102.0	500.2	2.8	1,045.4
Jul	143.8	85.4	58.4	332.2	332.2		205.5	329.0	1.7	1,012.1
Aug	153.3	97.8	55.5	569.8	569.8		152.1	300.9	1.7	1,177.8
Sep	109.4	58.8	50.6	469.0	469.0		159.7	343.4	2.3	1,083.8
Oct	114.7	62.9	51.8	638.4	638.4		172.2	210.8	3.0	1,139.1
Nov	87.0	36.1	50.9	370.4	370.4	6.5	114.1	267.3	2.7	847.9
Dec	81.2	66.5	14.8	515.9	515.9	6.2	167.5	269.0	3.2	1,043.1
Total	1,351.1	903.9	447.2	4,796.5	4,796.5	19.0	1,609.3	3,878.0	27.8	11,681.6

Oil

Table 2.3.4-1M Export of Petroleum Products (Cont.)

Unit : Million Litres

Month	2010									
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	86.1	36.1	49.9	200.7	200.7		98.0	230.4	3.8	619.0
Feb	79.3	32.2	47.1	266.7	266.7		59.3	274.4	4.4	684.0
Mar	70.6	67.8	2.8	304.0	304.0		102.8	325.6	4.1	807.1
Apr	134.2	90.9	43.4	365.6	365.6		152.1	293.3	4.0	949.2
May	158.3	91.0	67.3	418.6	418.6		63.7	272.6	3.9	922.5
Jun	152.1	88.7	63.4	493.1	493.1		189.7	270.9	3.5	1,132.5
Jul	149.4	65.6	83.8	546.9	546.9		110.6	266.2	3.4	1,099.7
Aug	109.3	62.1	47.2	621.4	621.4		286.8	191.3	5.3	1,238.7
Sep	135.0	70.1	64.9	737.5	737.5		43.0	288.9	4.4	1,320.2
Oct	69.9	57.9	12.0	587.2	587.2		124.9	245.5	5.3	1,194.3
Nov	72.9	56.2	16.7	480.3	480.3		81.8	315.4	1.8	1,015.2
Dec	124.7	83.2	41.5	483.1	483.1		91.7	259.6	1.9	974.4
Total	1,341.8	801.8	539.9	5,505.3	5,505.3		1,404.5	3,234.0	45.7	11,957.3

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.4-2M Export of Petroleum Products

Unit : Barrels/Day

2006										
Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	35,851.3	9,820.0	26,051.5	45,529.3	45,529.3		8,907.0	17,570.5	38,671.5	146,552.5
Feb	33,649.9	12,354.7	21,295.1	33,110.7	33,110.7		26,776.1	23,698.7	23,384.2	140,609.9
Mar	26,599.3	7,994.0	18,605.3	3,043.4	30,434.0	30,434.0	9,515.7	14,466.3	18,585.0	102,648.6
Apr	42,120.0	5,409.1	36,731.8	25,599.0	25,599.0		545.1	28,324.6	24,571.7	121,178.2
May	39,138.1	13,431.5	25,706.6	29,561.6	29,561.6		710.1	21,547.3	20,167.6	111,126.9
Jun	32,958.0	13,606.7	19,330.3	41,658.8	41,658.8		3,102.9	20,231.8	15,346.8	113,291.5
Jul	37,393.3	11,159.1	26,254.4	65,352.0	65,352.0		26,092.1	28,465.9	13,208.3	170,500.5
Aug	38,590.3	10,875.1	27,715.2	933.3	75,151.8	75,151.8	36,723.7	31,184.7	11,362.0	193,964.7
Sep	34,153.0	7,715.3	26,437.7	2,033.6	78,432.6	78,432.6	29,121.3	24,886.2	11,111.8	179,759.2
Oct	24,042.8	4,970.8	19,092.2	70,606.9	70,606.9		9,536.0	12,193.9	12,619.9	129,020.2
Nov	31,637.2	4,528.5	27,108.6	964.4	67,865.9	67,865.9	32,538.7	24,236.3	11,971.4	169,235.2
Dec	21,567.5	4,707.1	16,840.1	43,378.6	43,378.6		27,512.3	46,442.3	19,822.7	158,721.2
YTD	33,118.3	8,864.1	24,254.1	585.8	50,670.8	50,670.8	17,530.1	24,445.4	18,390.0	144,738.6

2007										
Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	25,706.6	6,857.8	18,848.8	33,152.8	33,152.8		20,289.3	25,909.5	13,350.4	118,408.3
Feb	27,719.6	7,502.7	20,194.4	2,268.7	30,909.4	30,909.4	11,029.4	30,033.3	22,553.0	124,523.3
Mar	32,889.0	7,202.7	25,686.3		40,132.3	40,132.3	1,805.7	30,758.6	10,164.9	115,770.6
Apr	34,907.8	7,715.3	27,213.4	1,111.1	30,169.6	30,169.6	1,257.9	35,369.1	11,216.6	114,025.1
May	37,677.3	6,959.2	30,738.3		42,952.5	42,952.5	26,761.6	53,868.2	11,869.2	173,123.8
Jun	28,114.9	6,792.8	21,322.0	1,132.1	47,508.2	47,508.2	6,918.6	44,803.6	7,736.3	136,198.2
Jul	16,332.9	6,107.0	10,225.8	1,420.2	35,202.0	35,202.0	3,449.1	31,245.6	6,107.0	93,757.6
Aug	24,184.9	6,857.8	17,347.4	1,014.4	43,885.9	43,885.9	6,594.0	49,404.6	5,985.3	131,069.1
Sep	24,320.1	6,667.0	17,653.1	943.4	51,261.0	51,261.0	1,027.3	41,218.5	4,004.4	122,792.8
Oct	26,863.1	24,753.0	2,110.0		68,253.4	68,253.4	1,156.4	39,280.2	5,924.4	141,469.7
Nov	15,367.8	12,369.7	2,998.0		76,273.1	76,273.1	1,467.5	70,004.4	4,549.5	167,679.0
Dec	32,239.8	12,234.4	20,005.3		55,592.8	55,592.8	10,753.3	59,934.7	3,895.5	162,412.9
YTD	27,207.7	9,360.4	17,847.2	641.0	46,345.6	46,345.6	7,737.1	42,701.0	8,857.2	133,490.1

Oil

Table 2.3.4-2M Export of Petroleum Products (Cont.)

Unit : Barrels/Day

2008									
Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG
	Total	Regular	Premium	Total	HSD	LSD			
Jan	38,833.8	10,428.7	28,425.4	52,508.8	52,508.8		20,127.0	57,784.1	3,327.4
Feb	30,954.3	8,401.2	22,553.0	33,582.5	33,582.5		22,193.6	63,975.2	2,605.7
Mar	29,744.2	9,799.7	19,944.4	1,968.0	61,456.4		20,248.7	64,946.2	178,340.4
Apr	42,979.6	15,074.3	27,905.3	49,143.5	49,143.5		24,089.5	52,707.7	20.9
May	16,860.4	6,228.8	10,611.3	10,246.1	76,592.3		13,492.4	66,366.5	568.1
Jun	39,331.6	12,914.8	26,395.7	66,062.8	66,062.8		11,719.8	50,338.5	20.9
Jul	35,851.3	17,570.5	18,280.7	87,122.5	87,122.5		23,413.9	41,714.9	20.2
Aug	26,112.4	21,364.7	4,747.7	9,820.0	82,171.9		23,048.7	78,560.4	20.2
Sep	13,292.2	7,610.5	5,660.7	59,940.8	59,940.8		20,546.3	57,676.5	41.9
Oct	6,776.6	4,199.8	2,576.7	68,679.5	68,679.5		27,228.3	84,931.2	142.0
Nov	7,128.3	4,591.4	2,536.8	69,501.2	69,501.2		23,292.8	43,084.4	1,048.2
Dec	18,422.7	15,379.3	3,023.1	76,693.8	76,693.8		48,552.4	86,026.9	426.0
YTD	25,406.2	11,135.8	14,270.4	1,866.2	65,411.2		23,144.7	62,283.5	675.3
2009									
Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG
	Total	Regular	Premium	Total	HSD	LSD			
Jan	27,086.3	6,046.2	21,040.0	57,216.0	57,216.0		20,573.4	81,116.8	405.7
Feb	11,815.6	9,389.6	2,426.0	32,683.9	32,683.9		23,541.4	72,735.9	359.4
Mar	14,669.2	11,970.7	2,698.4	49,506.0	49,506.0		10,996.8	66,407.0	365.2
Apr	26,186.1	23,460.5	2,704.5	73,987.8	73,987.8		16,332.2	68,767.4	440.2
May	24,428.3	21,790.7	2,637.6	121,837.6	121,837.6		40,091.7	56,485.5	568.1
Jun	33,146.7	30,735.6	2,411.0	1,341.8	57,844.3		21,384.9	104,870.3	587.0
Jul	29,176.1	17,327.1	11,848.9	67,401.2	67,401.2		41,694.6	66,752.0	344.9
Aug	31,103.5	19,843.0	11,260.5	115,608.8	115,608.8		30,860.1	61,050.7	344.9
Sep	22,936.4	12,327.8	10,608.6	98,329.0	98,329.0		33,482.1	71,996.1	482.2
Oct	23,271.9	12,762.0	10,509.8	129,527.3	129,527.3		34,938.2	42,769.9	608.6
Nov	18,240.1	7,568.6	10,671.5	1,362.7	77,656.8		23,921.8	56,041.2	566.0
Dec	16,474.9	13,492.4	3,002.8	1,257.9	104,672.8		33,984.6	54,578.3	649.2
YTD	23,282.2	15,576.0	7,706.1	327.4	82,653.6		27,731.5	66,825.9	479.0

Table 2.3.4-2M Export of Petroleum Products (Cont.)

Unit : Barrels/Day

Month	2010									
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	17,469.1	7,324.4	10,124.3	40,720.7	40,720.7		19,883.5	46,746.7	770.9	125,598.6
Feb	17,813.3	7,233.1	10,580.1	59,909.4	59,909.4		13,320.6	61,639.0	988.3	153,660.4
Mar	14,324.2	13,756.1	568.1	61,679.6	61,679.6		20,857.4	66,062.1	831.8	163,762.8
Apr	28,135.9	19,057.8	9,099.1	76,650.5	76,650.5		31,888.7	61,492.3	838.6	199,017.9
May	32,118.0	18,463.3	13,654.7	1,095.6	84,931.2	84,931.2	12,924.3	55,308.8	791.2	187,182.1
Jun	31,888.7	18,596.5	13,292.2	4,885.0	103,381.7	103,381.7	39,771.8	56,796.0	733.7	237,440.2
Jul	30,312.3	13,309.8	17,002.4	4,727.4	110,962.5	110,962.5	22,440.0	54,010.2	689.8	223,126.2
Aug	22,176.2	12,599.6	9,576.5	5,011.4	126,078.1	126,078.1	58,189.9	38,813.5	1,075.3	251,342.2
Sep	28,303.6	14,696.9	13,606.7	23,355.7	154,621.8	154,621.8	9,015.2	60,569.8	922.4	276,800.3
Oct	14,182.2	11,747.5	2,434.7	32,787.6	119,139.1	119,139.1	25,341.4	49,810.3	1,075.3	242,317.2
Nov	15,283.9	11,782.7	3,501.2	13,208.3	100,698.1	100,698.1	17,149.9	66,125.7	377.3	212,861.0
Dec	25,300.8	16,880.7	8,420.0	2,718.7	98,017.9	98,017.9	18,605.3	52,671.1	385.4	197,705.8
YTD	23,121.9	13,816.6	9,303.5	7,342.5	94,867.6	94,867.6	24,202.4	55,728.4	787.5	206,049.7

Source: Department of Energy Business (DOEB)
Complied by: Energy Policy and Planning Office (EPPO)

Table 2.4-1M Demand and Supply of Crude Oil and Oil Products

Unit : Barrels/Day

2006													
Month	Crude Oil Balance			Oil Products			Oil Products			Demand			
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others	Export	
Jan	204,433	825,873	55,741	946,326	957,922	77,288	1,035,211	859,591	122,521	328,126	408,943	162,998	1,022,590
Feb	207,541	732,783	80,201	917,515	967,093	81,413	1,048,506	919,936	122,480	343,772	453,683	157,148	1,077,085
Mar	209,589	905,685	53,589	915,293	907,294	97,947	1,005,242	912,046	126,515	351,520	434,010	133,057	1,045,104
Apr	207,589	812,122	74,256	956,711	960,656	101,540	1,062,197	867,847	127,647	329,106	411,094	144,437	1,012,285
May	213,365	889,012	47,716	935,423	919,801	75,870	995,671	855,715	123,258	330,658	401,798	146,236	1,001,951
Jun	209,661	820,356	65,915	932,489	938,745	58,125	996,870	865,797	124,014	309,810	431,973	135,966	1,001,764
Jul	203,442	838,542	54,990	966,311	975,174	77,291	1,052,466	827,384	120,964	292,406	414,013	210,318	1,037,703
Aug	206,265	894,317	77,194	946,771	944,988	64,690	1,009,678	822,825	120,148	291,872	410,804	210,970	1,033,796
Sep	208,591	825,355	60,091	929,057	949,818	65,306	1,015,125	803,500	122,289	287,698	393,512	215,113	1,018,614
Oct	190,373	859,767	81,220	917,295	912,853	57,401	970,255	792,540	123,219	290,681	378,639	164,392	956,933
Nov	202,880	685,502	77,718	836,481	906,965	35,874	942,839	817,242	130,004	322,064	365,173	192,565	1,009,807
Dec	187,367	847,331	58,610	903,999	932,007	62,357	994,364	835,835	128,951	323,185	383,698	188,137	1,023,973
YTD	204,199	829,300	65,441	925,497	939,220	71,241	1,010,462	847,874	124,331	316,570	406,972	171,896	1,019,770

2007													
Month	Crude Oil Balance			Oil Products			Oil Products			Demand			
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others	Export	
Jan	194,931	711,687	68,971	920,554	949,560	54,471	1,004,031	845,839	124,347	333,689	387,803	154,944	1,000,784
Feb	206,793	971,908	58,123	916,147	946,373	46,651	993,024	848,324	128,685	337,264	382,375	152,172	1,000,497
Mar	221,742	746,884	38,101	857,682	874,389	31,324	905,713	851,146	128,630	348,705	373,810	159,880	1,011,026
Apr	217,385	884,055	55,001	958,967	968,500	68,855	1,037,356	858,922	128,650	329,897	400,374	138,627	997,549
May	212,498	810,872	51,932	941,128	956,417	67,365	1,023,782	832,482	122,682	316,982	392,817	209,940	1,042,422
Jun	215,676	747,270	46,433	938,838	953,566	54,999	1,008,565	862,566	129,596	330,136	402,833	168,317	1,030,884
Jul	217,560	829,993	53,784	928,760	936,496	42,911	979,408	819,612	125,337	304,023	390,251	125,644	945,256
Aug	211,967	956,423	50,078	962,764	961,821	50,814	1,012,636	843,600	129,455	315,561	398,583	170,788	1,014,389
Sep	210,212	743,841	56,400	954,007	993,631	61,029	1,054,660	836,465	124,463	301,192	410,808	177,086	1,013,551
Oct	208,208	749,958	38,915	856,956	915,891	62,289	978,181	853,176	125,869	304,235	423,071	174,405	1,027,582
Nov	224,884	742,288	62,102	845,734	886,211	70,347	956,558	849,665	123,544	321,578	404,542	204,279	1,053,945
Dec	218,860	768,740	45,670	967,593	995,340	38,957	1,034,297	849,531	126,105	326,829	396,596	197,042	1,046,574
YTD	213,408	804,242	52,045	920,759	944,775	54,124	998,899	845,859	126,427	322,406	397,025	169,540	1,015,399

Table 2.4-1M Demand and Supply of Crude Oil and Oil Products (Cont.)

Unit : Barrels/Day

2008											
Month	Crude Oil Balance			Oil Products			Oil Products				
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Demand
Jan	210,132	837,832	41,458	949,430	958,785	40,663	999,448	835,368	118,406	320,204	1,026,234
Feb	213,824	920,720	39,144	948,560	958,358	14,682	973,040	886,329	125,509	330,021	1,059,956
Mar	207,733	914,524	37,421	962,942	978,802	49,579	1,028,382	861,365	118,666	333,384	1,052,726
Apr	219,233	803,545	51,537	995,949	1,019,014	79,105	1,098,119	857,062	122,395	327,288	1,052,901
May	225,729	851,111	40,204	977,898	991,901	10,748	1,002,649	805,117	113,757	304,423	1,005,270
Jun	230,719	748,599	47,492	845,395	884,380	26,282	910,662	761,851	113,362	276,287	941,508
Jul	214,633	734,870	50,651	928,300	940,871	58,331	999,202	725,917	109,783	244,930	939,836
Aug	232,859	820,895	38,817	832,395	906,772	33,249	940,022	724,545	115,624	260,495	975,972
Sep	234,811	671,695	48,864	778,630	839,410	51,949	891,359	735,929	115,268	258,935	909,354
Oct	236,544	814,902	51,009	915,782	941,634	35,411	977,046	736,378	117,904	274,153	955,567
Nov	220,158	544,231	40,136	779,553	829,273	40,512	869,785	695,868	121,330	284,632	896,303
Dec	226,238	817,666	48,894	892,854	930,381	13,303	943,684	793,493	138,430	330,128	1,061,683
YTD	228,828	811,560	45,863	925,432	957,292	38,980	996,273	805,770	122,368	303,194	1,016,482
2009											
Month	Crude Oil Balance			Oil Products			Oil Products				
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Demand
Jan	234,661	756,027	62,037	895,691	984,399	39,563	1,023,963	857,231	134,965	348,592	1,093,465
Feb	232,534	647,308	40,616	881,320	920,716	43,543	964,260	829,938	132,206	323,309	997,071
Mar	253,484	974,758	32,854	998,480	1,056,866	70,949	1,127,815	851,520	134,312	330,120	1,018,234
Apr	237,667	838,598	51,339	964,855	1,000,671	18,768	1,019,440	832,787	133,021	332,793	1,059,542
May	238,367	805,458	53,355	941,225	1,053,566	52,038	1,105,604	830,307	132,287	336,867	1,099,197
Jun	241,694	885,576	22,364	950,366	1,038,430	22,264	1,060,695	803,777	127,447	305,938	1,057,881
Jul	236,371	747,927	62,698	953,377	1,047,490	36,883	1,084,373	812,950	127,997	298,668	1,068,642
Aug	238,561	757,617	39,767	910,044	1,010,320	38,769	1,049,090	806,076	125,064	293,453	1,074,432
Sep	220,506	893,332	24,027	974,246	1,033,304	50,595	1,083,899	807,529	125,824	292,346	1,075,942
Oct	220,654	788,596	28,316	931,736	1,015,807	49,096	1,064,903	820,813	126,466	298,720	1,100,668
Nov	240,066	846,463	37,463	918,065	1,007,357	56,927	1,064,284	797,693	123,096	309,021	1,020,837
Dec	259,817	691,657	36,976	916,799	1,017,966	54,586	1,072,553	888,863	133,183	347,953	1,151,696
YTD	237,941	803,361	41,066	936,633	1,016,306	44,587	1,060,894	828,472	129,660	318,195	1,068,878

Oil

Table 2.4-1M Demand and Supply of Crude Oil and Oil Products (Cont.)

Unit : Barrels/Day

2010														
Month	Crude Oil Balance				Oil Products				Oil Products				Demand	
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others	Export		
Jan	232,778	774,312	36,759	939,907	1,002,740	77,279	1,080,019	843,840	122,913	317,638	403,287	150,589	994,429	
Feb	235,809	841,022	8,460	918,140	1,031,847	52,453	1,084,301	887,393	132,896	347,322	407,174	179,128	1,066,521	
Mar	250,421	735,828	36,224	998,652	1,061,312	99,685	1,160,997	905,934	125,855	342,480	437,599	190,532	1,096,467	
Apr	236,293	949,279	26,706	948,970	1,024,213	83,516	1,107,730	897,376	127,354	324,615	445,406	235,332	1,132,708	
May	246,115	739,887	32,170	965,724	1,062,877	105,280	1,168,158	879,835	121,562	322,255	436,017	221,220	1,101,056	
Jun	256,836	873,449	25,147	958,221	1,068,702	105,349	1,174,051	884,908	129,366	316,320	439,221	283,610	1,168,519	
Jul	254,954	781,768	45,881	981,832	1,042,103	73,531	1,115,635	861,075	129,168	307,706	424,200	272,335	1,133,410	
Aug	250,650	823,637	31,657	972,644	1,068,558	89,296	1,157,855	861,612	125,598	290,396	445,617	287,990	1,149,603	
Sep	248,127	793,463	44,994	953,373	1,087,837	93,904	1,181,741	871,394	127,350	294,350	449,694	316,458	1,187,853	
Oct	235,510	742,814	15,785	965,962	1,053,512	104,440	1,157,953	861,014	124,929	291,167	444,917	268,732	1,129,746	
Nov	232,263	852,270	29,143	973,322	1,022,197	62,331	1,084,528	904,928	132,505	331,795	440,628	266,461	1,171,390	
Dec	221,479	895,650	24,671	959,768	1,111,017	81,232	1,192,250	910,801	134,836	337,924	438,040	221,857	1,132,658	
YTD	241,801	816,201	29,956	961,763	1,053,276	85,958	1,139,235	880,692	127,806	318,449	434,436	241,321	1,122,014	

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.4-2M Demand and Supply of LPG, Propane and Butane

Unit : Thousand Tons

2006											
Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Total Supply	388	321	319	334	333	339	345	366	371	359	4,159
- Production	388	321	319	334	333	339	345	366	371	359	4,159
GSP	212	176	185	176	182	182	176	197	201	198	2,260
Refinery	151	123	124	128	121	128	141	139	141	134	1,585
Others	25	22	10	30	30	29	28	29	29	27	314
- Import											
Total Demand	375	311	322	329	340	329	343	359	347	361	4,094
- Consumption	272	255	272	266	287	289	308	329	318	327	3,518
Cooking	137	127	138	130	143	140	147	156	148	150	1,721
Industry	39	39	44	37	43	43	44	45	44	44	511
Automobile	32	30	34	34	36	36	40	41	42	44	459
Feedstock	63	60	56	65	65	58	56	62	58	63	708
Own Use						12	20	24	26	26	119
-Feedstock						12	12	14	14	14	69
-Energy							8	11	12	12	49
- Export	103	56	49	63	54	40	35	30	29	34	576
Balance (Supply-Demand)	13	9	-2	5	-7	11	2	6	24	-2	65

2007											
Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Total Supply	398	342	338	355	377	380	369	388	383	382	4,469
- Production	398	342	338	355	377	380	369	388	383	382	4,469
GSP	220	170	193	184	217	229	218	230	223	229	2,571
Refinery	152	147	118	146	133	123	122	129	129	122	1,567
Others	26	26	26	26	27	28	28	29	30	30	332
- Import											
Total Demand	370	347	335	343	371	360	379	377	362	390	4,393
- Consumption	334	293	308	314	339	340	363	361	351	374	4,116
Cooking	156	143	153	143	153	151	157	168	156	166	1,884
Industry	47	44	50	43	50	50	50	53	52	55	602
Automobile	45	43	48	46	47	47	49	49	48	49	572
Feedstock	68	58	41	62	69	68	84	68	69	77	807
Own Use	18	5	16	20	21	24	24	23	26	27	251
-Feedstock	14	2	13	14	16	15	17	15	15	18	170
-Energy	4	2	3	6	5	9	7	9	11	10	81
- Export	36	54	27	29	32	20	16	16	10	16	278
Balance (Supply-Demand)	28	-4	3	12	6	21	-11	12	21	-8	76

Oil

Table 2.4-2M Demand and Supply of LPG, Propane and Butane (Cont.)

Unit: Thousand Tons

2008												
Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
Total Supply	376	371	389	390	408	378	493	448	426	469	350	4,803
- Production	376	371	389	368	408	378	383	380	357	379	256	4,351
GSP	209	212	216	209	238	235	224	233	224	230	148	2,574
Refinery	159	153	165	151	162	135	150	138	126	141	101	1,684
Others	8	7	8	8	8	8	9	9	6	9	7	93
- Import				21			110	68	69	90	93	452
Total Demand	393	367	382	373	422	404	441	462	443	450	334	4,810
- Consumption	384	361	382	373	420	404	441	462	443	450	331	4,788
Cooking	171	161	170	166	178	173	188	186	182	187	178	2,124
Industry	58	58	60	51	57	54	58	57	57	57	50	658
Automobile	52	50	57	55	60	66	81	79	73	75	67	776
Feedstock	71	65	66	72	92	83	87	113	102	96	24	903
Own Use	31	27	29	29	34	27	28	28	28	35	12	328
-Feedstock	19	17	20	18	20	20	19	20	18	19	1	198
-Energy	13	10	9	11	13	7	8	8	9	15	11	130
- Export	9	6	0	0	1	0	0	0	0	0	3	21
Balance (Supply-Demand)	-17	4	7	17	-14	-26	52	-14	-17	18	16	-6

2009												
Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
Total Supply	394	342	416	386	455	422	466	468	453	473	468	5,217
- Production	374	342	393	371	388	378	398	377	364	361	356	4,463
GSP	218	212	224	214	231	227	229	218	211	211	213	2,622
Refinery	148	125	162	151	150	146	163	153	146	144	137	1,766
Others	8	5	6	6	6	6	7	6	6	6	6	75
- Import	20		23	14	67	44	68	91	90	112	112	753
Total Demand	383	341	426	409	431	432	472	467	453	467	455	5,223
- Consumption	382	340	425	408	429	430	471	466	452	466	454	5,208
Cooking	185	164	180	172	179	181	192	193	191	198	191	2,231
Industry	40	37	42	38	45	50	52	53	54	57	58	586
Automobile	56	54	58	55	56	55	55	56	54	56	55	666
Feedstock	69	75	108	103	111	109	131	117	113	117	109	1,289
Own Use	32	10	38	41	38	35	42	46	39	37	41	435
-Feedstock	11	1	16	18	17	18	18	19	21	19	20	195
-Energy	20	9	22	23	21	18	24	27	18	19	20	240
- Export	1	1	1	1	2	2	1	1	1	2	1	15
Balance (Supply-Demand)	11	1	-11	-24	24	-9	-7	1	1	5	13	-6

Table 2.4-2M Demand and Supply of LPG, Propane and Butane (Cont.)

Unit : Thousand Tons

2010													
Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Total Supply	538	427	499	477	506	455	480	518	511	539	520	592	6,061
- Production	371	315	373	351	329	325	389	382	375	390	377	435	4,412
GSP	216	170	208	194	177	188	230	233	227	244	228	289	2,603
Refinery	147	138	156	150	144	129	153	143	143	140	143	140	1,726
Others	8	7	9	7	8	7	6	6	6	6	6	7	83
- Import	167	112	126	125	177	130	91	136	136	149	143	157	1,649
Total Demand	478	438	484	477	482	490	479	525	514	530	514	557	5,968
- Consumption	476	436	482	475	480	488	477	522	512	527	513	556	5,943
Cooking	199	187	204	192	195	199	210	209	203	208	209	219	2,435
Industry	61	58	66	57	65	63	65	68	68	67	67	64	769
Automobile	55	52	55	54	54	54	58	58	55	58	61	67	680
Feedstock	117	97	115	129	133	133	106	151	149	155	140	167	1,592
Own Use	43	41	42	41	33	39	39	36	36	39	37	40	466
-Feedstock	21	21	22	22	16	20	23	20	20	22	24	24	254
-Energy	22	21	20	19	17	19	16	17	16	16	13	16	213
- Export	2	2	2	2	2	2	2	3	2	3	1	1	25
Balance (Supply-Demand)	60	-11	15	0	24	-36	1	-6	-3	9	6	35	94

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)



APPENDIX

● ● Chapter 3
NATURAL GAS

● ● บทที่ 3
ก๊าซธรรมชาติ

Table 3.1-1M Production and Import of Natural Gas

Unit : MMSCFD

2006																		
Month	Sirikit	Benjamas Namphong	Erawan	Pailin	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Others	Yadana	Yetakun	Total Import	Total Domestic	Grand Total
Jan	53	154	32	268	450	93	42	236	616		32		368	351	342	692	2,345	3,037
Feb	54	154	32	279	443	91	43	248	619		38		356	384	383	767	2,356	3,123
Mar	53	120	32	280	468	81	40	267	653		36		365	474	456	930	2,396	3,325
Apr	52	153	32	253	470	80	24	292	569		43		342	455	386	840	2,309	3,150
May	51	138	32	282	452	69	22	238	629		48		386	488	455	943	2,346	3,289
Jun	50	167	32	281	440	68	19	259	698		37		326	488	452	941	2,378	3,319
Jul	52	182	31	288	414	113	18	255	634		38		333	460	426	886	2,358	3,244
Aug	51	157	31	287	445	99	23	255	603		41		349	484	441	925	2,342	3,267
Sep	50	170	29	287	420	111	25	270	644		45		314	478	435	913	2,364	3,277
Oct	43	179	30	280	407	104	26	299	632		41		304	457	410	867	2,344	3,211
Nov	48	181	29	274	432	87	23	291	647		48		346	487	445	932	2,405	3,337
Dec	47	154	27	273	420	88	21	242	581		46		323	414	378	792	2,291	3,083
YTD	50	159	31	278	438	90	27	6	263	627	41		343	452	417	869	2,353	3,222

2007																		
Month	Sirikit	Benjamas Namphong	Erawan	Pailin	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Others	Yadana	Yetakun	Total Import	Total Domestic	Grand Total
Jan	43	154	29	279	420	81	20	288	632		36		317	426	398	823	2,370	3,193
Feb	43	134	29	279	448	72	23	263	640		67		313	455	419	875	2,401	3,275
Mar	40	158	28	281	465	103	22	290	636		64		336	500	452	952	2,511	3,462
Apr	43	177	28	283	475	93	16	293	536		58		365	448	405	853	2,486	3,340
May	44	179	27	282	463	109	9	322	650		78		353	496	450	946	2,633	3,579
Jun	49	180	26	278	449	104	11	342	648		70		357	497	457	954	2,627	3,581
Jul	51	186	25	280	466	115	14	309	644		69		337	461	429	890	2,601	3,492
Aug	46	179	25	263	493	129	13	332	653		50		343	470	425	895	2,615	3,510
Sep	49	175	26	280	422	129	9	332	645		56		310	503	460	963	2,504	3,467
Oct	47	177	26	275	466	134	8	330	657		52		265	501	459	960	2,511	3,472
Nov	47	179	21	275	456	117	8	322	606		91		250	489	449	939	2,454	3,393
Dec	45	179	24	278	462	110	5	286	599		86		280	429	389	818	2,455	3,273
YTD	46	172	26	278	457	108	13	93	629		65		319	473	433	906	2,515	3,421

Natural Gas

Table 3.1-1M Production and Import of Natural Gas (Cont.)

Unit : MMSCFD

2008																	
Month	Sirikit	Benjamas Namphong	Erawan	Pailin	Satun	Gomin	Phuhoim	Funan & Jakrawan	Arthit	Yala	JDA	Others	Yadana	Yetakun	Total Import	Total Domestic	Grand Total
Jan	44	175	23	277	441	125	1	72	317	626	24	313	403	378	781	2,546	3,328
Feb	40	171	23	284	439	111		70	332	641	13	325	485	442	927	2,544	3,471
Mar	43	148	26	287	425	109	7	95	338	662	13	321	511	461	972	2,611	3,582
Apr	43	145	25	277	482	97	16	103	311	662	211	78	427	263	691	2,823	3,513
May	42	153	24	275	440	100	23	94	287	648	425	83	428	400	828	3,001	3,829
Jun	42	150	24	257	465	101	11	78	295	659	421	97	423	405	828	2,992	3,820
Jul	42	140	23	357	446	94	10	83	290	630	377	136	446	422	867	2,944	3,811
Aug	42	145	23	278	457	89	10	98	297	650	409	132	459	427	886	2,969	3,855
Sep	38	115	23	258	450	82	15	98	286	538	463	138	474	439	913	2,856	3,769
Oct	39	145	23	256	444	97	13	85	268	653	447	100	442	413	855	2,835	3,690
Nov	38	145	22	246	371	58	15	79	202	469	217	121	379	359	738	2,550	3,288
Dec	37	133	21	243	319	152	43	66	209	404	343	128	330	316	647	2,658	3,305
YTD	41	147	23	275	431	101	14	85	286	604	278	100	434	394	828	2,778	3,606

2009																	
Month	Sirikit	Benjamas Namphong	Erawan	Pailin	Satun	Gomin	Phuhoim	Funan & Jakrawan	Arthit	Yala	JDA	Others	Yadana	Yetakun	Total Import	Total Domestic	Grand Total
Jan	37	148	16	243	371	152	43	44	209	505	422	191	166	157	323	2,881	3,204
Feb	37	140	16	253	409	66	10	43	183	417	417	247	375	377	752	2,754	3,506
Mar	28	145	16	278	418	75	12	44	237	526	443	265	331	336	667	3,038	3,705
Apr	27	67	24	221	419	61	7	94	136	532	412	321	398	400	798	2,801	3,598
May	64	65	23	235	449	53	6	97	156	648	455	360	462	440	902	3,146	4,048
Jun	65	68	23	229	458	44	6	96	175	493	451	379	477	451	928	3,022	3,950
Jul	64	60	23	227	425	44	3	92	144	590	426	318	445	416	861	2,898	3,759
Aug	63	69	23	247	451	55	7	92	207	570	416	343	484	460	944	2,935	3,879
Sep	65	72	19	249	436	61	6	100	141	637	495	344	471	462	933	3,041	3,974
Oct	63	51	18	260	423	57	15	102	244	435	475	337	505	469	974	3,017	3,991
Nov	64	68	17	244	372	47	50	78	162	552	482	336	479	464	943	3,097	4,040
Dec	65	83	20	249	376	57	120	84	124	569	510	335	317	305	622	3,232	3,854
YTD	54	86	20	244	417	64	24	81	177	540	441	315	409	394	803	2,990	3,794

Table 3.1-1M Production and Import of Natural Gas (Cont.)

Unit : MMSCFD

Month	Sirikit	Benjamas Namphong	Erawan	Pailin	Satun	Gomin	Phuhoem	2010				Yala	JDA	Others	Yadana	Yetakun	Total Import	Total Domestic	Grand Total
								Funan & Jakrawan	Bongkot	Arthit									
Jan	64	85	13	248	438	52	151	81	146	604	458	103	449	301	390	374	764	3,197	3,961
Feb	63	87	17	240	464	58	102	72	133	528	545	119	538	303	512	466	978	3,268	4,246
Mar	63	89	20	248	467	80	129	104	166	629	579	120	630	322	353	322	675	3,645	4,320
Apr	65	88	19	244	399	56	97	87	173	573	448	120	704	309	467	436	903	3,383	4,286
May	62	81	20	253	399	87	72	100	181	540	501	110	691	364	476	457	933	3,462	4,395
Jun	64	94	17	261	394	89	89	79	224	621	522	107	711	407	429	440	869	3,681	4,551
Jul	63	83	17	251	433	90	81	82	223	623	450	94	551	398	459	443	902	3,441	4,343
Aug	62	70	20	275	448	76	75	79	247	639	419	89	668	398	429	420	849	3,563	4,412
Sep	62	65	20	275	454	84	61	77	247	539	516	86	719	405	474	447	921	3,610	4,531
Oct	57	61	18	259	449	67	58	83	242	623	524	67	757	412	424	423	847	3,678	4,524
Nov	65	54	18	256	399	126	52	99	208	600	531	70	675	453	395	394	790	3,607	4,397
Dec	65	58	17	259	414	111	58	97	195	627	523	53	687	414	411	411	822	3,578	4,400
YTD	63	76	18	256	430	82	85	87	199	596	501	95	649	374	434	419	853	3,511	4,364

Remarks : Heat Value of NG from Myanmar = 1,000 BTU/SCF
Source : Department of Mineral Fuels (DMF) and PTT
Compiled by : Energy Policy and Planning office (EPPO)

Table 3.2-1M Distribution of NGL

2006										
Month	(Million Litres)			(Barrel)			(Barrels/Day)			
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery
Jan	15	5	44	64	94,558	30,988	274,871	400,419	3,050	999
Feb	13	5	47	64	79,799	31,151	294,643	405,595	2,850	1,112
Mar	5	5	44	54	30,255	31,086	275,481	336,823	975	1,002
Apr	10	5	52	67	63,508	31,457	329,338	424,304	2,116	1,048
May	5	5	50	60	28,643	31,389	317,590	377,623	923	1,012
Jun	2	5	52	59	14,766	31,519	325,513	371,799	492	1,050
Jul	5	5	47	57	29,091	31,568	294,736	355,396	938	1,018
Aug	5	5	47	57	29,893	31,529	296,814	358,236	964	1,017
Sep	15	7	44	66	92,553	44,072	276,651	413,277	3,085	1,469
Oct	20	3	39	63	127,657	19,565	247,210	394,434	4,118	631
Nov	15	7	38	60	92,588	44,610	241,677	378,876	3,086	1,487
Dec	20	0	43	62	124,973	533	267,320	392,827	4,031	17
YTD	129	57	547	733	808,290	359,473	3,441,850	4,609,614	2,214	984

2007										
Month	(Million Litres)			(Barrel)			(Barrels/Day)			
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery
Jan	10	1	54	65	62,897	6,495	339,546	408,938	2,028	209
Feb	12	5	36	54	77,802	31,436	227,700	336,939	2,778	1,122
Mar	20	0	42	62	124,892	455	266,694	392,041	4,028	14
Apr	5		52	57	29,568		328,876	358,445	985	
May	12		54	66	76,448		340,164	416,613	2,466	
Jun	25		49	74	157,211		306,533	463,744	5,240	
Jul	17		54	72	109,499		341,588	451,088	3,532	
Aug	5		61	66	29,565		385,952	415,517	953	
Sep	7		64	71	45,325		400,454	445,780	1,510	
Oct	5		61	65	30,184		380,760	410,945	973	
Nov	5		56	61	30,226		354,850	385,076	1,007	
Dec	10		66	76	60,788		416,889	477,678	1,960	
YTD	133	6	650	789	834,411	38,387	4,090,011	4,962,810	2,286	105

Table 3.2-1M Distribution of NGL (Cont.)

2008										
Month	(Million Litres)			(Barrel)			(Barrels/Day)			
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery
Jan	5		54	59	29,850		341,508	371,358	962	11,016
Feb	20		56	75	124,656		349,500	474,156	4,452	12,482
Mar	7		60	67	45,304		374,758	420,063	1,461	12,088
Apr	10		56	66	61,682		354,709	416,392	2,056	11,823
May	10		66	76	62,938		417,429	480,367	2,030	13,465
Jun	20		59	79	127,482		372,512	499,995	4,249	12,417
Jul	10		64	74	62,575		402,301	464,876	2,018	12,977
Aug	5		62	67	30,273		391,454	421,728	976	12,627
Sep	5		63	67	30,266		393,169	423,436	1,008	13,105
Oct	26		46	71	160,682		286,618	447,300	5,183	9,245
Nov	15		36	51	95,190		228,183	323,374	3,173	7,606
Dec	10		50	60	63,175		314,234	377,409	2,037	10,136
YTD	142		672	814	894,079		4,226,379	5,120,458	2,442	11,547
2009										
Month	(Million Litres)			(Barrel)			(Barrels/Day)			
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery
Jan	5		60	65	30,224		376,547	406,772	974	12,146
Feb	5		54	59	30,242		340,727	370,969	1,080	12,168
Mar	5		58	63	30,233		366,473	396,707	975	11,821
Apr	15		45	60	94,323		283,584	377,907	3,144	9,452
May	15		59	74	95,478		372,001	467,479	3,079	12,000
Jun	15		56	71	95,100		354,295	449,396	3,170	11,809
Jul	10		48	58	62,952		301,068	364,020	2,030	9,711
Aug	10		60	70	62,721		377,461	440,183	2,023	12,176
Sep	5		60	65	30,216		380,330	410,546	1,007	12,677
Oct	5		55	60	29,878		346,788	376,666	963	11,186
Nov	20		59	79	125,620		372,240	497,861	4,187	12,408
Dec	5		61	66	30,215		382,168	412,384	974	12,328
YTD	114		676	790	717,208		4,253,688	4,970,897	1,964	11,653

Natural Gas

Table 3.2-1M Distribution of NGL (Cont.)

Month	(Million Litres)				2010				(Barrel)				(Barrels/Day)			
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total
Jan	10		62	72	63,211		388,408	451,619	2,039		12,529	14,568				
Feb	10		41	51	59,808		258,489	318,298	2,136		9,231	11,367				
Mar	15		53	68	94,470		334,877	429,348	3,047		10,802	13,849				
Apr	7		54	62	45,427		341,766	387,193	1,514		11,392	12,906				
May	7		52	59	43,469		328,821	372,291	1,402		10,607	12,009				
Jun	12		43	55	75,715		272,854	348,569	2,523		9,095	11,618				
Jul	14		62	77	90,857		391,250	482,108	2,930		12,620	15,551				
Aug	5		66	71	30,223		416,119	446,343	974		13,423	14,398				
Sep	7		60	67	45,340		374,937	420,278	1,511		12,497	14,009				
Oct	7		69	75	41,600		432,521	474,122	1,341		13,952	15,294				
Nov	22		51	72	136,843		319,031	455,875	4,561		10,634	15,195				
Dec	19		62	81	120,904		389,278	510,183	3,900		12,557	16,457				
YTD	135		675	810	847,872		4,248,358	5,096,231	2,322		11,639	13,962				

Source : PTT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-2M Consumption of Natural Gas by Sector

Unit : MMSCFD

2006							
Month	Electricity			Industry	GSP	NGV	Grand Total
	EGAT	IPP	SPP				
Jan	851	785	413	274	514	9	2,846
Feb	949	819	404	275	573	8	3,028
Mar	1,153	829	413	281	496	9	3,180
Apr	1,016	786	406	262	515	8	2,994
May	1,149	831	393	297	493	10	3,172
Jun	1,116	790	436	289	512	10	3,153
Jul	1,052	844	417	285	508	10	3,117
Aug	945	923	426	301	545	13	3,152
Sep	993	866	437	292	549	12	3,150
Oct	1,008	811	426	307	530	14	3,097
Nov	1,031	858	416	321	542	14	3,182
Dec	922	751	415	303	549	13	2,954
YTD	1,016	825	417	291	527	11	3,086

2007							
Month	Electricity			Industry	GSP	NGV	Grand Total
	EGAT	IPP	SPP				
Jan	888	787	430	362	596	14	3,077
Feb	969	822	443	354	485	16	3,090
Mar	1,232	818	450	327	492	18	3,338
Apr	1,137	756	423	334	490	19	3,160
May	1,179	818	448	348	580	19	3,393
Jun	1,188	862	472	333	535	21	3,412
Jul	1,069	895	450	325	558	22	3,318
Aug	1,102	863	441	358	630	25	3,420
Sep	1,064	880	450	338	609	27	3,367
Oct	982	917	451	371	628	30	3,377
Nov	933	912	450	367	620	34	3,316
Dec	897	835	428	350	627	36	3,173
YTD	1,054	847	445	347	572	24	3,288

Natural Gas

Table 3.2-2M Consumption of Natural Gas by Sector (Cont.)

Unit : MMSCFD

2008							
Month	Electricity			Industry	GSP	NGV	Grand Total
	EGAT	IPP	SPP				
Jan	905	878	446	365	585	41	3,220
Feb	917	967	452	377	619	47	3,378
Mar	914	1,068	453	370	594	52	3,450
Apr	1,044	839	432	376	587	57	3,336
May	1,069	1,079	444	374	630	63	3,659
Jun	1,068	1,085	437	357	647	72	3,667
Jul	1,088	1,084	452	392	593	83	3,693
Aug	1,118	1,052	450	366	602	91	3,680
Sep	1,019	1,035	456	383	611	98	3,602
Oct	1,055	1,013	449	340	593	107	3,556
Nov	995	874	421	317	400	108	3,115
Dec	978	638	398	315	531	108	2,968
YTD	1,014	968	441	361	583	77	3,444

2009							
Month	Electricity			Industry	GSP	NGV	Grand Total
	EGAT	IPP	SPP				
Jan	913	529	412	341	568	117	2,881
Feb	1,050	856	419	357	599	133	3,413
Mar	1,197	850	426	374	593	138	3,578
Apr	1,149	810	404	363	597	126	3,451
May	1,193	883	435	373	618	133	3,635
Jun	1,092	1,027	447	403	625	142	3,735
Jul	1,054	992	415	372	622	143	3,597
Aug	1,056	1,036	438	376	587	150	3,643
Sep	1,100	1,073	444	420	605	151	3,793
Oct	1,109	1,053	438	434	574	154	3,761
Nov	1,163	949	442	432	607	159	3,752
Dec	1,137	804	428	397	592	167	3,526
YTD	1,101	905	429	387	599	143	3,564

Table 3.2-2M Consumption of Natural Gas by Sector (Cont.)

Unit : MMSCFD

Month	2010					
	Electricity			Industry	GSP	NGV
	EGAT	IPP	SPP			
				Total		Grand Total
Jan	1,043	919	434	2,397	597	154
Feb	1,196	1,087	435	2,719	520	171
Mar	1,491	761	434	2,686	573	176
Apr	1,264	1,027	444	2,735	563	165
May	1,377	1,070	445	2,891	552	167
Jun	1,459	1,053	434	2,946	552	181
Jul	1,356	996	416	2,767	673	179
Aug	1,374	902	437	2,713	745	181
Sep	1,403	955	454	2,811	749	190
Oct	1,419	893	464	2,777	837	193
Nov	1,427	826	445	2,697	682	204
Dec	1,331	847	434	2,612	767	210
YTD	1,346	943	440	2,728	652	181

Remark : Heat value of NG = 1,000 BTU/SCF
Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-3M Consumption Share of Natural Gas by Sector

2006							
Month	MMSCFD				Share (%)		
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry
Jan	2,050	274	514	9	2,846	72.0	9.6
Feb	2,172	275	573	8	3,028	71.7	9.1
Mar	2,395	281	496	9	3,180	75.3	8.8
Apr	2,209	262	515	8	2,994	73.8	8.7
May	2,373	297	493	10	3,172	74.8	9.4
Jun	2,342	289	512	10	3,153	74.3	9.2
Jul	2,314	285	508	10	3,117	74.2	9.1
Aug	2,293	301	545	13	3,152	72.8	9.6
Sep	2,296	292	549	12	3,150	72.9	9.3
Oct	2,245	307	530	14	3,097	72.5	9.9
Nov	2,305	321	542	14	3,182	72.4	10.1
Dec	2,089	303	549	13	2,954	70.7	10.3
YTD	2,257	291	527	11	3,086	73.2	9.4

2007							
Month	MMSCFD				Share (%)		
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry
Jan	2,105	362	596	14	3,077	68.4	11.8
Feb	2,235	354	485	16	3,090	72.3	11.5
Mar	2,501	327	492	18	3,338	74.9	9.8
Apr	2,316	334	490	19	3,160	73.3	10.6
May	2,445	348	580	19	3,393	72.1	10.3
Jun	2,522	333	535	21	3,412	73.9	9.8
Jul	2,413	325	558	22	3,318	72.7	9.8
Aug	2,407	358	630	25	3,420	70.4	10.5
Sep	2,394	338	609	27	3,367	71.1	10.0
Oct	2,349	371	628	30	3,377	69.6	11.0
Nov	2,295	367	620	34	3,316	69.2	11.1
Dec	2,159	350	627	36	3,173	68.1	11.0
YTD	2,346	347	572	24	3,288	71.3	10.6

Table 3.2-3M Consumption Share of Natural Gas by Sector (Cont.)

2008							
Month	MMSCFD				Share (%)		
	Electricity	Industry	GSP	NGV	Electricity	Industry	Total
Jan	2,229	365	585	41	69.2	11.3	18.2
Feb	2,335	377	619	47	69.1	11.2	18.3
Mar	2,435	370	594	52	70.6	10.7	17.2
Apr	2,316	376	587	57	69.4	11.3	17.6
May	2,592	374	630	63	70.8	10.2	17.2
Jun	2,591	357	647	72	70.7	9.7	17.6
Jul	2,625	392	593	83	71.1	10.6	16.1
Aug	2,620	366	602	91	71.2	9.9	16.4
Sep	2,510	383	611	98	69.7	10.6	17.0
Oct	2,516	340	593	107	70.8	9.6	16.7
Nov	2,289	317	400	108	73.5	10.2	12.9
Dec	2,014	315	531	108	67.8	10.6	17.9
YTD	2,423	361	583	77	70.4	10.5	16.9
2009							
Month	MMSCFD				Share (%)		
	Electricity	Industry	GSP	NGV	Electricity	Industry	Total
Jan	1,854	341	568	117	64.4	11.9	19.7
Feb	2,325	357	599	133	68.1	10.5	17.5
Mar	2,473	374	593	138	69.1	10.5	16.6
Apr	2,364	363	597	126	68.5	10.5	17.3
May	2,511	373	618	133	69.1	10.3	17.0
Jun	2,565	403	625	142	68.7	10.8	16.7
Jul	2,461	372	622	143	68.4	10.4	17.3
Aug	2,531	376	587	150	69.5	10.3	16.1
Sep	2,617	420	605	151	69.0	11.1	16.0
Oct	2,599	434	574	154	69.1	11.5	15.3
Nov	2,554	432	607	159	68.1	11.5	16.2
Dec	2,369	397	592	167	67.2	11.2	16.8
YTD	2,435	387	599	143	68.3	10.9	16.8

Table 3.2-3M Consumption Share of Natural Gas by Sector (Cont.)

Month	2010					Share (%)			
	MMSCFD								
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry	GSP	Total
Jan	2,397	428	597	154	3,576	67.0	12.0	16.7	100.0
Feb	2,719	473	520	171	3,884	70.0	12.2	13.4	100.0
Mar	2,686	499	573	176	3,933	68.3	12.7	14.6	100.0
Apr	2,735	450	563	165	3,913	69.9	11.5	14.4	100.0
May	2,891	464	552	167	4,074	71.0	11.4	13.5	100.0
Jun	2,946	488	552	181	4,166	70.7	11.7	13.2	100.0
Jul	2,767	472	673	179	4,091	67.6	11.5	16.4	100.0
Aug	2,713	492	745	181	4,131	65.7	11.9	18.0	100.0
Sep	2,811	506	749	190	4,256	66.1	11.9	17.6	100.0
Oct	2,777	472	837	193	4,278	64.9	11.0	19.6	100.0
Nov	2,697	491	682	204	4,075	66.2	12.1	16.7	100.0
Dec	2,612	498	767	210	4,086	63.9	12.2	18.8	100.0
YTD	2,728	478	652	181	4,039	67.6	11.8	16.1	100.0

Remark : Heat Value of NG = 1,000 BTU/SCF
 Compiled by : Energy Policy and Planning Office (EPPO)



APPENDIX

● ● Chapter 4
LIGNITE/COAL

● ● บทที่ 4
ลิกไนต์/ถ่านหิน

Table 4.1-1M Production and Consumption of Lignite

Unit : Ton

2006																
Month	EGAT				Total EGAT				Others				Whole Kingdom			
	Mae-Moh		Krabi		Production		Consumption		Production		Consumption		Production		Consumption	
	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption		
Jan	1,409,844	1,331,766	10,000		1,419,844	1,331,766	292,175		286,003		1,712,019		1,617,769			
Feb	1,107,546	1,145,746	5,000		1,112,546	1,145,746	300,012		317,260		1,412,558		1,463,006			
Mar	1,227,563	1,280,465			1,227,563	1,280,465	364,469		359,188		1,592,032		1,639,653			
Apr	1,237,717	1,295,892	7,000		1,244,717	1,295,892	247,199		251,798		1,491,916		1,547,690			
May	1,493,423	1,462,749			1,493,423	1,462,749	208,923		265,773		1,702,346		1,728,522			
Jun	1,487,520	1,427,571	5,000		1,492,520	1,427,571	265,313		260,844		1,757,833		1,688,415			
Jul	1,377,792	1,399,882	3,000		1,380,792	1,399,882	262,688		260,006		1,643,480		1,659,888			
Aug	1,259,477	1,292,663	4,000		1,263,477	1,292,663	212,158		258,743		1,475,635		1,551,406			
Sep	1,422,428	1,361,371	5,000		1,427,428	1,361,371	370,399		216,584		1,797,827		1,577,955			
Oct	1,330,055	1,307,179	5,000		1,335,055	1,307,179	218,804		168,400		1,553,859		1,475,579			
Nov	1,192,509	1,242,172	5,000		1,197,509	1,242,172	263,979		162,416		1,461,488		1,404,588			
Dec	1,217,924	1,267,918	7,000		1,224,924	1,267,918	244,693		229,731		1,469,617		1,497,649			
YTD	15,763,798	15,815,374	56,000		15,819,798	15,815,374	3,250,810		3,036,746		19,070,608		18,852,120			

2007																
Month	EGAT				Total EGAT				Others				Whole Kingdom			
	Mae-Moh		Krabi		Production		Consumption		Production		Consumption		Production		Consumption	
	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption		
Jan	1,333,519	1,314,931	6,000		1,339,519	1,314,931	254,272		162,436		1,593,791		1,477,367			
Feb	1,221,321	1,209,466	10,000		1,231,321	1,209,466	289,481		171,839		1,520,802		1,381,305			
Mar	1,294,427	1,323,731	11,112		1,305,539	1,323,731	272,022		173,758		1,577,560		1,497,489			
Apr	1,362,232	1,084,906			1,362,232	1,084,906	176,806		396,243		1,539,038		1,481,149			
May	1,290,552	1,265,741			1,290,552	1,265,741	141,488		150,468		1,432,040		1,416,209			
Jun	1,259,365	1,281,557			1,259,365	1,281,557	168,950		129,667		1,428,315		1,411,224			
Jul	1,569,910	1,491,570			1,569,910	1,491,570	207,137		141,709		1,777,047		1,633,279			
Aug	1,416,810	1,493,135			1,416,810	1,493,135	169,193		202,103		1,586,003		1,695,238			
Sep	1,400,167	1,381,626			1,400,167	1,381,626	108,334		121,568		1,508,501		1,503,194			
Oct	1,247,035	1,293,124			1,247,035	1,293,124	76,044		202,545		1,323,079		1,495,669			
Nov	1,407,742	1,328,185			1,407,742	1,328,185	106,286		136,701		1,514,028		1,464,886			
Dec	1,314,729	1,343,078			1,314,729	1,343,078	124,243		170,342		1,438,972		1,513,420			
YTD	16,117,809	15,811,050	27,112		16,144,921	15,811,050	2,094,255		2,159,379		18,239,176		17,970,429			

Table 4.1-1M Production and Consumption of Lignite (Cont.)

Unit : Ton

2008										
Month	EGAT			Total EGAT			Others		Whole Kingdom	
	Mae-Moh		Krabi	Production		Consumption	Production	Consumption	Production	Consumption
Jan	1,261,965	1,317,911		1,261,965	1,317,911		154,955	155,859	1,416,920	1,473,770
Feb	1,322,581	1,291,476		1,322,581	1,291,476		89,760	200,731	1,412,341	1,492,207
Mar	1,301,825	1,354,518	5,000	1,306,825	1,354,518		145,186	238,846	1,452,011	1,593,364
Apr	1,454,233	1,414,483		1,454,233	1,414,483		188,095	183,093	1,642,328	1,597,576
May	1,489,003	1,491,436	5,000	1,494,003	1,491,436		163,792	188,339	1,657,795	1,679,775
Jun	1,453,387	1,372,230	8,000	1,461,387	1,372,230		251,406	230,523	1,712,793	1,602,753
Jul	1,227,168	1,262,475	2,000	1,229,168	1,262,475		216,633	191,082	1,445,801	1,453,557
Aug	1,325,345	1,334,370	3,248	1,328,593	1,334,370		183,916	185,890	1,512,510	1,520,260
Sep	1,382,595	1,386,029		1,382,595	1,386,029		127,742	200,477	1,510,337	1,586,506
Oct	1,328,904	1,337,526		1,328,904	1,337,526		106,675	180,396	1,435,579	1,517,922
Nov	1,344,442	1,366,674		1,344,442	1,366,674		174,357	113,379	1,518,799	1,480,053
Dec	1,529,399	1,478,337		1,529,399	1,478,337		39,872	55,472	1,569,271	1,533,809
YTD	16,420,847	16,407,465	23,248	16,444,095	16,407,465		1,842,390	2,124,087	18,286,485	18,531,552

2009										
Month	EGAT			Total EGAT			Others		Whole Kingdom	
	Mae-Moh		Krabi	Production		Consumption	Production	Consumption	Production	Consumption
Jan	1,468,620	1,461,488		1,468,620	1,461,488		93,065	111,470	1,561,685	1,572,958
Feb	1,174,194	1,144,939		1,174,194	1,144,939		138,458	157,131	1,312,652	1,302,070
Mar	1,254,630	1,255,136		1,254,630	1,255,136		211,163	247,544	1,465,793	1,502,680
Apr	1,227,083	1,313,460		1,227,083	1,313,460		217,794	234,662	1,444,877	1,548,122
May	1,413,339	1,370,259		1,413,339	1,370,259		154,931	183,435	1,568,270	1,553,694
Jun	1,435,227	1,463,154		1,435,227	1,463,154		177,569	194,639	1,612,796	1,657,793
Jul	1,469,759	1,451,536		1,469,759	1,451,536		178,411	165,359	1,648,170	1,616,895
Aug	1,279,005	1,304,125		1,279,005	1,304,125		217,282	179,357	1,496,287	1,483,482
Sep	1,254,357	1,243,891		1,254,357	1,243,891		125,811	134,061	1,380,168	1,377,952
Oct	1,143,009	1,287,741		1,143,009	1,287,741		109,720	41,449	1,252,729	1,329,190
Nov	1,237,910	1,227,355		1,237,910	1,227,355		115,830	193,949	1,353,740	1,421,304
Dec	1,274,633	1,295,181		1,274,633	1,295,181		194,300	199,472	1,468,933	1,494,653
YTD	15,631,766	15,818,265		15,631,766	15,818,265		1,934,334	2,042,529	17,566,100	17,860,794

Lignite/Coal

Table 4.1-1M Production and Consumption of Lignite (Cont.)

Unit : Ton

Month	2010									
	EGAT				Total EGAT		Others		Whole Kingdom	
	Mae-Moh		Krabi		Production	Consumption	Production	Consumption	Production	Consumption
	Production	Consumption	Production	Consumption						
Jan	1,358,183	1,363,194			1,358,183	1,363,194	177,050	171,521	1,535,233	1,534,715
Feb	1,209,511	1,161,660			1,209,511	1,161,660	252,862	144,184	1,462,373	1,305,844
Mar	1,343,448	1,370,186			1,343,448	1,370,186	222,982	189,422	1,566,430	1,559,608
Apr	1,412,283	1,427,231			1,412,283	1,427,231	206,286	161,905	1,618,569	1,589,136
May	1,537,747	1,482,298			1,537,747	1,482,298	183,169	165,206	1,720,916	1,647,504
Jun	1,242,187	1,257,482			1,242,187	1,257,482	220,460	188,479	1,462,647	1,445,961
Jul	1,276,520	1,278,053			1,276,520	1,278,053	153,860	155,133	1,430,380	1,433,186
Aug	1,291,936	1,370,701			1,291,936	1,370,701	132,330	134,749	1,424,266	1,505,450
Sep	1,303,351	1,219,748			1,303,351	1,219,748	123,300	132,236	1,426,651	1,351,984
Oct	1,301,037	1,340,644			1,301,037	1,340,644	165,200	61,942	1,466,237	1,402,586
Nov	1,370,110	1,357,249			1,370,110	1,357,249	144,750	290,589	1,514,860	1,647,838
Dec	1,340,950	1,375,750			1,340,950	1,375,750	261,900	222,319	1,602,850	1,598,069
YTD	15,987,263	16,004,196			15,987,263	16,004,196	2,244,149	2,017,685	18,231,412	18,021,881

Source : Department of Mineral Resources

Table 4.2-1M Coal Import

Unit : 1,000 Tons

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1986	3.55	28.49	4.75	26.87	15.12	17.70	7.85	8.50	7.95	43.93	46.35	10.64	221.70
1987	1.17	45.04	4.60	9.46	46.95	11.74	84.28	2.71	2.85	14.05	37.59	51.06	311.50
1988	40.27	24.62	52.48	56.06	49.08	13.15	39.53	3.87	5.54	48.12	9.86	18.51	361.08
1989	56.28	48.50	58.45	21.67	33.66	84.22	24.55	57.03	8.52	10.49	21.68	29.99	455.03
1990	21.00	19.09	31.75	7.13	56.19	54.10	10.37	21.95	25.80	7.45	22.06	64.01	340.90
1991	13.52	13.68	24.58	42.49	83.88	69.06	68.24	1.75	15.39	45.05	10.77	81.02	469.42
1992	0.90	31.60	140.89	8.40	0.78	8.85	75.47	54.80	32.96	43.03	9.36	93.83	500.85
1993	193.78	6.62	116.58	31.72	82.90	74.63	59.03	59.12	117.03	42.81	31.82	119.72	935.76
1994	137.83	70.65	39.54	99.37	168.57	130.76	162.35	163.51	111.79	155.01	140.90	138.93	1,519.21
1995	165.00	21.95	295.16	69.94	170.79	241.18	145.36	362.27	179.53	255.87	233.94	206.17	2,347.16
1996	127.96	87.99	180.88	313.03	313.71	481.60	333.40	382.72	397.35	256.60	510.80	519.79	3,905.84
1997	395.31	330.01	397.77	469.03	368.50	287.43	235.44	130.11	140.33	172.19	157.60	205.06	3,288.78
1998	33.59	50.22	47.16	61.23	116.34	158.75	134.79	193.28	133.01	255.77	247.60	201.23	1,632.98
1999	169.81	330.24	57.55	445.49	306.13	272.05	378.92	323.15	430.93	122.11	368.46	73.09	3,277.93
2000	378.32	325.88	132.41	353.40	382.56	390.15	378.13	467.09	420.24	248.30	236.71	470.02	4,183.20
2001	355.10	472.44	463.02	398.42	212.06	466.24	581.70	459.61	276.19	411.67	524.51	324.24	4,945.21
2002	428.95	325.34	471.01	397.53	386.63	455.33	618.43	394.41	475.20	582.29	594.79	468.92	5,598.84
2003	553.82	868.90	675.68	567.41	587.78	520.46	445.63	575.64	583.64	648.67	618.66	464.13	7,110.44
2004	426.58	419.12	353.70	617.44	654.58	497.82	764.34	596.09	679.98	854.35	652.34	1,033.61	7,549.95
2005	709.09	673.49	655.33	706.58	887.05	766.11	441.86	974.44	696.93	555.24	871.68	630.50	8,568.29
2006	678.58	665.24	965.31	684.08	1,118.73	1,090.71	553.04	1,040.25	1,130.49	1,110.90	1,132.69	1,044.78	11,214.80
2007	1,025.09	888.19	1,087.64	1,107.51	1,316.80	1,206.18	1,131.10	1,674.78	1,272.50	1,114.67	1,334.85	1,254.49	14,413.80
2008	1,309.80	1,483.34	1,322.24	1,536.05	1,510.23	1,245.74	1,363.82	1,252.98	1,310.96	1,383.52	1,008.61	1,251.71	15,979.00
2009	893.98	1,136.57	1,320.59	1,590.73	1,465.03	1,234.67	1,554.50	1,448.91	1,678.14	2,043.75	847.68	1,174.29	16,388.84
2010	1,260.12	1,339.83	1,267.86	1,925.20	1,419.13	1,361.40	1,133.69	1,040.14	1,612.57	1,600.90	1,327.56	1,615.80	16,904.21

Source : The Customs Department
Compiled by : Energy Policy and Planning Office (EPPO)



APPENDIX

● ● Chapter 5
ELECTRICITY

● ● บทที่ 5
ไฟฟ้า

Energy
of Thailand

Table 5.1-1M Electricity Generation by Fuel Type

Unit : GWh

2006												
Month	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	Total
Jan	629.12	540.66	1,484.49	2,254.35	3.39	0.17	0.08	377.45	1.75	1,161.36	4,303.94	10,756.79
Feb	683.33	1,270.99	1,290.79	2,198.79	10.86	0.10	0.07	366.69	2.05	996.48	3,948.54	10,768.74
Mar	756.24	1,014.86	1,484.43	3,231.31	37.42	0.11	0.07	449.85	3.09	1,175.93	4,566.68	12,720.03
Apr	661.97	807.62	1,526.33	2,745.87	9.97	0.08	0.06	409.01	4.28	1,035.71	4,426.53	11,627.46
May	535.93	857.59	1,664.34	3,349.25	3.29	0.06	0.07	294.48	3.32	1,107.26	4,620.75	12,436.40
Jun	516.00	1,119.11	1,623.22	3,087.67	2.35	0.14	0.04	437.64	3.08	1,074.10	4,317.26	12,180.66
Jul	541.74	971.08	1,564.49	2,876.77	1.05	0.16	0.08	496.19	5.38	1,151.35	4,664.16	12,272.51
Aug	667.71	590.26	1,438.21	2,693.02	2.42	0.15	0.05	511.42	9.12	1,199.59	5,121.17	12,233.18
Sep	705.98	284.05	1,529.24	2,840.97	3.81	0.16	0.06	505.98	4.29	1,188.41	4,822.16	11,885.17
Oct	846.20	134.35	1,498.48	3,079.06	0.60	0.17	0.07	434.08	6.27	1,203.28	4,805.99	12,008.61
Nov	663.12	117.82	1,433.30	3,010.77	0.70	0.17	0.06	478.71	0.84	1,098.81	5,120.96	11,925.30
Dec	742.66	99.99	1,490.32	2,594.78	0.99	0.18	0.07	390.29	1.26	1,138.62	4,644.46	11,103.64
YTD	7,950.05	7,808.44	18,027.67	33,962.66	76.92	1.72	0.84	5,151.85	44.79	13,530.95	55,362.65	141,918.56

2007												
Month	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	Total
Jan	754.10	18.64	1,508.21	2,526.78	2.13	0.17	0.07	335.49	1.91	1,233.28	4,878.51	11,259.34
Feb	777.03	106.55	1,466.15	2,591.38	1.91	0.13	0.07	278.82	1.71	1,119.12	4,560.37	10,903.29
Mar	844.96	265.50	1,614.99	3,502.21	1.26	0.10	0.08	386.00	3.84	1,259.96	5,383.24	13,262.19
Apr	732.70	291.31	1,539.22	3,274.42	4.93	0.14	0.06	365.27	3.72	1,112.60	4,890.08	12,214.49
May	540.52	203.60	1,467.99	3,578.15	1.96	0.13	0.05	400.03	2.49	1,232.32	5,235.26	12,662.56
Jun	677.78	273.56	1,485.00	3,262.86	2.51	0.14	0.06	333.76	2.41	1,245.19	5,484.35	12,767.67
Jul	705.67	29.88	1,645.91	3,220.13	2.81	0.15	0.06	422.91	1.15	1,180.70	5,367.56	12,576.97
Aug	644.38	429.53	1,674.06	3,061.95	2.44	0.15	0.08	335.65	1.15	1,210.11	5,375.00	12,734.56
Sep	530.34	236.87	1,553.22	3,459.04	1.08	0.15	0.06	273.48	0.79	1,200.90	5,463.81	12,719.79
Oct	439.72	436.82	1,493.90	2,796.67	2.11	0.17	0.05	502.59	0.77	1,236.83	5,569.63	12,479.29
Nov	552.93	221.46	1,532.52	2,683.91	1.81	0.18	0.05	435.94	0.75	1,189.48	4,959.74	11,578.81
Dec	761.18	452.78	1,516.45	2,544.13	3.23	0.17	0.07	418.36	0.97	1,218.90	4,950.60	11,866.89
YTD	7,961.35	2,966.57	18,497.67	36,501.68	28.23	1.83	0.80	4,488.35	21.70	14,439.45	62,118.21	147,025.89

Table 5.1-1M Electricity Generation by Fuel Type (Cont.)

Unit : GWh

2008										
Month	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	Total
Jan	739.38	2.54	1,504.67	2,644.43	2.05	0.12	0.06	342.25	1.80	11,881.10
Feb	714.01	95.98	1,472.24	2,441.37	1.32	0.12	0.06	170.17	2.14	11,530.95
Mar	823.86	449.24	1,537.81	2,741.85	2.63	0.11	0.07	152.47	3.74	13,287.76
Apr	824.42	341.43	1,623.50	3,002.93	5.97	0.08	0.05	260.31	3.55	12,591.95
May	542.47	91.78	1,693.16	3,345.53	1.01	0.10	0.05	167.29	1.15	13,057.87
Jun	530.02	4.28	1,573.29	3,209.43	1.81	0.13	0.05	227.36	1.12	12,784.63
Jul	520.52	1.71	1,426.75	3,515.10	1.42	0.13	0.05	275.81	3.12	13,070.50
Aug	436.71	1.29	1,528.56	3,528.01	1.29	0.14	0.05	271.38	3.12	13,038.75
Sep	388.36	1.79	1,557.74	3,154.20	1.79	0.13	0.07	327.00	3.69	12,373.38
Oct	376.44		1,526.44	3,419.39	1.28	0.13	0.06	268.44	2.85	12,717.60
Nov	428.33		1,558.82	3,149.15	1.29	0.10	0.06	183.02	1.26	11,347.64
Dec	626.11		1,676.25	3,109.54	1.37	0.09	0.06	138.02	1.16	10,538.74
YTD	6,950.69	990.08	18,679.29	37,260.97	23.28	1.30	0.70	2,783.57	28.77	148,220.93

2009										
Month	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	Total
Jan	742.81	33.27	1,640.53	2,622.14	1.24	0.09	0.06	171.11	1.47	10,409.34
Feb	715.34		1,308.97	2,833.02	1.01	0.14	0.06	106.09	2.07	11,094.18
Mar	810.43		1,467.57	3,782.28	12.90	0.09	0.06	130.43	3.84	12,899.41
Apr	718.98		1,484.73	3,738.41	8.24	0.03	0.05	108.28	3.70	12,165.21
May	539.55	1.74	1,526.55	3,884.36	6.78	0.03	0.01	147.44	2.26	12,781.95
Jun	367.89	7.27	1,596.28	3,511.53	1.16	0.09	0.02	182.69	1.49	12,672.35
Jul	368.54	1.86	1,619.79	3,501.53	1.94	0.13	0.01	236.85	2.24	12,803.25
Aug	584.43	149.59	1,465.13	3,282.64	0.43	0.14	0.31	275.08	1.87	13,157.69
Sep	391.91	3.42	1,414.31	3,542.13	2.91	0.14	0.30	205.87	1.04	12,751.94
Oct	476.09	181.21	1,447.91	3,713.20	1.80	0.15	0.14	273.76	1.68	13,112.93
Nov	516.94	30.56	1,423.55	3,633.83	2.79	0.16	0.45	336.00	1.12	12,277.02
Dec	732.77	39.28	1,526.71	3,715.89	3.82	0.17	0.34	277.76	1.21	12,238.36
YTD	6,965.73	448.23	17,922.09	41,761.01	45.07	1.40	1.86	2,451.41	24.03	148,363.67

Table 5.1-1M Electricity Generation by Fuel Type (Cont.)

Unit : GWh

2010												
Month	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	Total
Jan	618.82	15.71	1,516.20	3,426.01	2.71	0.15	0.36	164.14	1.52	1,263.47	5,554.42	12,563.56
Feb	638.58	3.70	1,326.95	3,680.29	4.43	0.10	0.33	143.12	1.72	1,095.52	5,702.45	12,597.24
Mar	769.18	155.17	1,562.91	4,697.21	5.05	0.13	0.45	568.33	3.83	1,267.29	5,466.86	14,496.44
Apr	512.75	16.63	1,585.88	3,996.71	3.16	0.09	0.48	741.42	3.70	1,170.34	5,876.20	13,907.42
May	520.91	51.70	1,658.24	4,330.16	2.78	0.09	0.45	791.99	1.53	1,153.95	6,360.42	14,872.26
Jun	415.50	23.04	1,434.94	4,201.51	2.56	0.14	0.40	789.05	1.48	1,090.41	6,275.37	14,234.45
Jul	334.90	168.90	1,436.77	4,039.46	7.68	0.12	0.50	801.08	2.30	1,050.59	6,372.14	14,214.47
Aug	340.78	53.78	1,525.45	4,345.63	1.78	0.13	0.55	768.50	3.03	1,152.60	5,549.60	13,741.87
Sep	245.45	39.39	1,363.66	4,424.80	2.73	0.13	0.34	780.24	2.15	1,092.89	5,691.64	13,643.46
Oct	170.85	7.28	1,508.24	4,665.88	2.39	0.17	0.51	795.42	1.10	1,139.27	5,350.08	13,641.23
Nov	328.70		1,525.55	4,539.11	2.86	0.17	0.67	486.98	0.47	1,165.96	4,866.90	12,917.42
Dec	450.27	22.98	1,542.78	4,455.67	3.41	0.18	0.56	423.47	0.75	1,228.46	4,709.84	12,838.42
YTD	5,346.75	558.31	17,987.62	50,802.50	41.58	1.64	5.65	7,253.78	23.63	13,870.80	67,775.98	163,668.29

Source : EGAT

Remark : Power Generation from NG and Diesel Oil not Include REGCO'S Generation Since Dec, 1994

Table 5.1-2M Electricity Generation Classified by Fuel Type

Unit : GWh

2006							
Month	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others
Jan	629.1	540.7	1,681.5	7,335.7	3.4	377.5	189.1
Feb	683.3	1,271.0	1,458.1	6,814.0	10.9	366.7	164.8
Mar	756.2	1,014.9	1,676.4	8,573.1	37.4	449.9	212.2
Apr	662.0	807.6	1,731.9	7,827.5	10.0	409.0	179.4
May	535.9	857.6	2,043.9	8,544.2	3.3	294.5	157.1
Jun	516.0	1,119.1	1,998.4	7,985.8	2.4	437.6	121.4
Jul	541.7	971.1	2,010.5	8,069.5	1.1	496.2	182.4
Aug	667.7	590.3	2,209.8	8,061.0	2.4	511.4	190.5
Sep	706.0	284.1	2,344.4	7,872.1	3.8	506.0	168.9
Oct	846.2	134.4	2,476.2	7,950.2	0.6	434.1	167.0
Nov	663.1	117.8	2,503.1	8,019.4	0.7	478.7	142.5
Dec	742.7	100.0	2,334.3	7,345.4	1.0	390.3	190.0
Total	7,950.1	7,808.4	24,468.4	94,397.9	76.9	5,151.9	2,065.2
141,918.6							
2007							
Month	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others
Jan	754.1	18.6	2,587.9	7,309.7	2.1	335.5	251.4
Feb	777.0	106.6	2,481.5	7,037.5	1.9	278.8	220.0
Mar	845.0	265.5	2,679.4	8,774.2	1.3	386.0	310.8
Apr	732.7	291.3	2,587.1	7,998.3	4.9	365.3	234.9
May	540.5	203.6	2,613.4	8,678.4	2.0	400.0	224.7
Jun	677.8	273.6	2,656.6	8,621.0	2.5	333.8	202.5
Jul	705.7	29.9	2,759.5	8,454.7	2.8	422.9	201.5
Aug	644.4	429.5	2,579.9	8,550.4	2.5	335.7	192.3
Sep	530.4	236.9	2,685.2	8,815.1	1.1	273.5	177.7
Oct	439.7	436.8	2,644.3	8,273.5	2.1	502.6	180.2
Nov	552.9	221.5	2,368.2	7,846.6	1.8	436.0	151.9
Dec	761.2	452.8	2,238.2	7,788.4	3.2	418.4	204.8
Total	7,961.4	2,966.6	30,881.1	98,147.7	28.2	4,488.4	2,552.6
147,025.9							

Table 5.1-2M Electricity Generation Classified by Fuel Type (Cont.)

Unit : GWh

2008							
Month	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others
Jan	739.4	2.5	2,623.6	7,945.4	2.1	342.3	225.9
Feb	714.0	96.0	2,533.5	7,811.9	1.3	170.2	204.1
Mar	823.9	449.2	2,698.2	8,950.0	2.6	152.5	211.4
Apr	824.4	341.4	2,780.0	8,180.2	6.0	260.3	199.6
May	542.5	91.8	2,730.9	9,338.3	1.0	167.3	186.1
Jun	530.0	4.3	2,603.6	9,238.9	1.8	227.4	178.6
Jul	520.5	1.7	2,498.4	9,586.4	1.4	275.8	186.3
Aug	436.7	1.3	2,514.8	9,635.6	1.3	271.4	177.7
Sep	388.4	1.8	2,581.8	8,893.3	1.8	327.0	179.3
Oct	376.5		2,593.8	9,299.2	1.3	268.5	178.4
Nov	428.3		2,417.6	8,174.0	1.3	183.0	143.4
Dec	626.1		2,261.6	7,332.8	1.4	138.0	178.9
Total	6,950.7	990.1	30,837.7	104,385.9	23.3	2,783.6	2,249.8
2009							
Month	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others
Jan	742.8	33.3	2,688.5	6,567.2	1.3	171.1	205.2
Feb	715.4		2,280.6	7,660.0	1.0	106.1	331.1
Mar	810.4		2,585.0	9,127.6	12.9	130.4	233.1
Apr	719.0		2,579.3	8,548.4	8.2	108.3	202.0
May	539.6	1.7	2,623.5	9,271.4	6.8	147.5	191.6
Jun	367.9	7.3	2,664.2	9,228.8	1.2	182.7	220.3
Jul	368.5	1.9	2,734.5	9,217.7	1.9	236.9	241.8
Aug	584.4	149.6	2,547.8	9,376.2	0.4	275.1	224.1
Sep	391.9	3.4	2,485.6	9,441.6	2.9	205.9	219.5
Oct	476.1	181.2	2,281.2	9,690.2	1.8	273.8	208.7
Nov	517.0	30.6	2,143.1	9,042.4	2.8	336.0	200.9
Dec	732.8	39.3	2,194.9	8,758.3	3.8	277.8	231.5
Total	6,965.7	448.2	29,808.1	105,929.9	45.1	2,451.4	2,709.8
							148,363.7

TABLE 5.1-2M Electricity Generation Classified by Fuel Type (Cont.)

Unit : GWh

Month	2010						Total
	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others
Jan	618.8	15.7	2,648.7	8,836.1	2.7	164.1	277.4
Feb	638.6	3.7	2,335.2	9,225.1	4.4	143.1	247.1
Mar	769.2	155.2	2,724.3	10,002.4	5.1	568.3	272.0
Apr	512.8	16.6	2,671.8	9,712.4	3.2	741.4	249.3
May	520.9	51.7	2,731.6	10,542.0	2.8	792.0	231.3
Jun	415.5	23.0	2,490.9	10,301.0	2.6	789.1	212.4
Jul	334.9	168.9	2,488.5	10,202.8	7.7	801.1	210.7
Aug	340.8	53.8	2,647.3	9,726.0	1.8	768.5	203.8
Sep	245.5	39.4	2,408.8	9,971.7	2.7	780.3	195.2
Oct	170.9	7.3	2,353.7	10,101.3	2.4	795.4	210.4
Nov	328.7		2,256.9	9,641.3	2.9	487.0	200.6
Dec	450.3	23.0	2,006.3	9,679.3	3.4	423.5	252.6
Total	5,346.8	558.3	29,763.9	117,941.4	41.6	7,253.8	2,762.7
							163,668.3

Source : EGAT

Table 5.1-3M Peak, Demand and Load Factor

2006			
Month	Peak (MW)	Generation (GWh)	Load Factor (%)
Jan	18,879	10,757	76.6
Feb	19,696	10,769	81.4
Mar	20,745	12,720	82.4
Apr	20,531	11,627	78.7
May	21,064	12,436	79.4
Jun	20,439	12,181	82.8
Jul	20,040	12,273	82.3
Aug	19,870	12,233	82.8
Sep	20,214	11,885	81.7
Oct	20,052	12,009	80.5
Nov	20,444	11,925	81.0
Dec	20,092	11,104	74.3
Total	21,064	141,919	76.9

2007			
Month	Peak (MW)	Generation (GWh)	Load Factor (%)
Jan	19,755	11,259	76.6
Feb	20,593	10,903	78.8
Mar	22,161	13,262	80.4
Apr	22,586	12,214	75.1
May	21,234	12,663	80.2
Jun	21,555	12,768	82.3
Jul	20,396	12,577	82.9
Aug	20,853	12,735	82.1
Sep	21,063	12,720	83.9
Oct	20,594	12,479	81.4
Nov	20,483	11,579	78.5
Dec	20,958	11,867	76.1
Total	22,586	147,026	74.3

2008			
Month	Peak (MW)	Generation (GWh)	Load Factor (%)
Jan	20,733	11,881	77.0
Feb	20,708	11,531	80.0
Mar	22,122	13,288	80.7
Apr	22,568	12,592	77.5
May	21,610	13,058	81.2
Jun	21,396	12,785	83.0
Jul	21,489	13,071	81.8
Aug	21,590	13,054	81.3
Sep	21,014	12,401	82.0
Oct	20,711	12,718	82.5
Nov	20,201	11,348	78.0
Dec	18,394	10,539	77.0
Total	22,568	148,264	74.8

Table 5.1-3M Peak, Demand and Load Factor (Cont.)

2009			
Month	Peak* (MW)	Generation (GWh)	Load Factor (%)
Jan	19,082	10,409	73.3
Feb	21,301	11,094	77.5
Mar	21,851	12,899	79.3
Apr	22,596	12,165	74.8
May	21,366	12,782	80.4
Jun	21,361	12,672	82.4
Jul	21,141	12,812	81.5
Aug	21,766	13,158	81.2
Sep	21,444	12,752	82.6
Oct	21,585	13,113	81.7
Nov	22,380	12,277	76.2
Dec	21,505	12,238	76.5
Total	22,596	148,372	75.0

2010			
Month	Peak* (MW)	Generation (GWh)	Load Factor (%)
Jan	21,510	12,564	78.5
Feb	22,449	12,597	83.5
Mar	23,886	14,496	81.6
Apr	24,495	13,907	78.9
May	24,630	14,872	81.2
Jun	23,813	14,234	83.0
Jul	23,574	14,214	81.0
Aug	22,417	13,742	82.4
Sep	22,731	13,635	83.3
Oct	22,360	13,641	82.0
Nov	22,884	12,917	78.4
Dec	22,964	12,838	75.1
Total	24,630	163,660	75.9

Source : EGAT

*Remark : Gross Peak Estimation from EGAT (Net Peak) since 2009

Table 5.1-4M EGAT Purchased from SPP

Unit : GWh

2006				
Month	Natural Gas (NG)	Coal / Lignite	Renewable Energy	Total
Jan	777.35	196.95	187.06	1,161.36
Feb	666.65	167.31	162.53	996.49
Mar	775.08	191.94	208.92	1,175.93
Apr	708.22	152.54	174.96	1,035.71
May	725.38	228.35	153.54	1,107.27
Jun	805.43	150.56	118.11	1,074.10
Jul	759.87	214.71	176.78	1,151.36
Aug	747.61	270.83	181.16	1,199.60
Sep	815.76	208.30	164.36	1,188.41
Oct	821.39	221.44	160.47	1,203.29
Nov	747.43	209.95	141.43	1,098.81
Dec	777.85	172.27	188.51	1,138.62
YTD	9,128.00	2,385.14	2,017.81	13,530.95

2007				
Month	Natural Gas (NG)	Coal / Lignite	Renewable Energy	Total
Jan	799.78	184.25	249.25	1,233.29
Feb	754.06	146.97	218.10	1,119.13
Mar	831.09	122.12	306.76	1,259.97
Apr	747.36	134.25	230.99	1,112.60
May	815.51	194.82	222.00	1,232.32
Jun	790.41	254.95	199.84	1,245.20
Jul	811.02	169.58	200.11	1,180.70
Aug	827.49	191.76	190.87	1,210.12
Sep	811.90	212.36	176.65	1,200.90
Oct	851.66	205.95	179.22	1,236.83
Nov	828.17	210.44	150.88	1,189.49
Dec	815.06	200.27	203.58	1,218.91
YTD	9,683.50	2,227.71	2,528.24	14,439.45

2008				
Month	Natural Gas (NG)	Coal / Lignite	Renewable Energy	Total
Jan	842.02	214.11	224.01	1,280.14
Feb	786.45	167.75	201.72	1,155.93
Mar	836.20	187.88	207.44	1,231.52
Apr	763.89	199.48	196.00	1,159.37
May	811.44	176.26	184.82	1,172.52
Jun	777.11	102.80	177.32	1,057.22
Jul	814.87	158.47	182.99	1,156.32
Aug	858.08	143.55	174.38	1,176.01
Sep	822.91	170.16	175.43	1,168.50
Oct	847.97	187.87	175.39	1,211.22
Nov	822.88	175.81	141.99	1,140.68
Dec	817.70	131.78	177.54	1,127.01
YTD	9,801.51	2,015.89	2,219.03	14,036.43

Table 5.1-4M EGAT Purchased from SPP (Cont.)

Unit : GWh

2009				
Month	Natural Gas (NG)	Coal / Lignite	Renewable Energy	Total
Jan	820.20	151.87	203.57	1,175.63
Feb	586.76	112.93	328.87	1,028.56
Mar	851.90	166.77	229.10	1,247.77
Apr	739.59	194.11	198.16	1,131.86
May	814.82	145.86	189.26	1,149.94
Jun	821.13	170.37	218.73	1,210.23
Jul	759.25	164.62	239.40	1,163.26
Aug	776.08	116.78	221.82	1,114.68
Sep	784.43	146.60	217.97	1,149.00
Oct	802.15	153.13	206.68	1,161.96
Nov	791.21	165.34	199.16	1,155.70
Dec	798.69	179.48	229.79	1,207.96
YTD	9,346.21	1,867.85	2,682.49	13,896.54

2010				
Month	Natural Gas (NG)	Coal / Lignite	Renewable Energy	Total
Jan	816.91	171.26	275.31	1,263.48
Feb	712.49	138.07	244.97	1,095.52
Mar	815.33	184.42	267.54	1,267.29
Apr	770.96	154.44	244.95	1,170.35
May	769.85	154.89	229.22	1,153.96
Jun	756.92	123.10	210.40	1,090.42
Jul	746.69	96.13	207.77	1,050.59
Aug	794.82	157.76	200.03	1,152.60
Sep	790.44	109.92	192.54	1,092.89
Oct	803.05	127.64	208.59	1,139.27
Nov	794.64	172.02	199.31	1,165.97
Dec	826.56	150.78	251.13	1,228.46
YTD	9,398.65	1,740.41	2,731.75	13,870.81

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.1-5M EGAT Purchased from IPP

Unit : GWh

2006			
Month	Natural Gas (NG)	Coal / Lignite	Total
Jan	4,303.94		4,303.94
Feb	3,948.55		3,948.55
Mar	4,566.68		4,566.68
Apr	4,373.45	53.08	4,426.53
May	4,469.56	151.20	4,620.76
Jun	4,092.69	224.57	4,317.26
Jul	4,432.82	231.35	4,664.17
Aug	4,620.41	500.77	5,121.17
Sep	4,215.31	606.85	4,822.16
Oct	4,049.74	756.26	4,806.00
Nov	4,261.18	859.78	5,120.96
Dec	3,972.76	671.71	4,644.46
YTD	51,307.08	4,055.56	55,362.65

2007			
Month	Natural Gas (NG)	Coal / Lignite	Total
Jan	3,983.09	895.42	4,878.51
Feb	3,692.02	868.35	4,560.37
Mar	4,440.95	942.30	5,383.25
Apr	3,976.48	913.61	4,890.09
May	4,284.72	950.55	5,235.27
Jun	4,567.69	916.67	5,484.36
Jul	4,423.51	944.05	5,367.56
Aug	4,660.98	714.03	5,375.01
Sep	4,544.16	919.66	5,463.82
Oct	4,625.24	944.40	5,569.63
Nov	4,334.51	625.24	4,959.75
Dec	4,429.16	521.45	4,950.60
YTD	51,962.49	10,155.73	62,118.21

2008			
Month	Natural Gas (NG)	Coal / Lignite	Total
Jan	4,458.95	904.81	5,363.75
Feb	4,584.09	893.47	5,477.56
Mar	5,371.89	972.53	6,344.42
Apr	4,413.31	957.03	5,370.34
May	5,181.33	861.45	6,042.78
Jun	5,252.40	927.48	6,179.89
Jul	5,256.34	913.20	6,169.55
Aug	5,249.52	842.64	6,092.15
Sep	4,916.23	853.84	5,770.07
Oct	5,031.84	879.48	5,911.32
Nov	4,201.94	682.95	4,884.89
Dec	3,405.54	453.57	3,859.11
YTD	57,323.36	10,142.45	67,465.82

Table 5.1-5M EGAT Purchased from IPP (Cont.)

Unit : GWh

2009			
Month	Natural Gas (NG)	Coal / Lignite	Total
Jan	2,647.62	896.07	3,543.68
Feb	4,240.18	858.71	5,098.89
Mar	4,493.39	950.61	5,444.00
Apr	4,070.42	900.48	4,970.90
May	4,572.15	951.12	5,523.27
Jun	4,896.15	897.52	5,793.66
Jul	4,956.94	950.12	5,907.06
Aug	5,317.50	965.86	6,283.36
Sep	5,115.03	924.63	6,039.65
Oct	5,174.85	680.14	5,854.99
Nov	4,617.35	554.19	5,171.54
Dec	4,243.75	488.67	4,732.42
YTD	54,345.31	10,018.13	64,363.43

2010			
Month	Natural Gas (NG)	Coal / Lignite	Total
Jan	4,593.17	961.25	5,554.42
Feb	4,832.23	870.22	5,702.46
Mar	4,489.85	977.01	5,466.86
Apr	4,944.75	931.45	5,876.21
May	5,442.01	918.41	6,360.43
Jun	5,342.58	932.80	6,275.38
Jul	5,416.59	955.56	6,372.15
Aug	4,585.56	964.04	5,549.61
Sep	4,756.48	935.16	5,691.64
Oct	4,632.33	717.76	5,350.09
Nov	4,307.56	559.35	4,866.91
Dec	4,397.09	312.76	4,709.85
YTD	57,740.20	10,035.79	67,775.98

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.2-1M Electricity Consumption in MEA Service Areas (Classified by Tariff)

Unit : GWh

Month	Residential			Small General	Medium General	Large General	Specific Business	Gov.& Nonprofit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	<150 kWh	>150 kWh	Total											
2006														
Jan	29.58	568.10	611.73	435.36	614.66	1,165.66	134.37	81.80	0.00	0.00	0.00	0.00	17.17	3,060.75
Feb	33.89	633.37	684.67	467.04	638.75	1,140.48	132.20	88.21	0.00	0.00	0.00	0.00	15.70	3,167.04
Mar	41.87	755.30	818.88	535.67	755.39	1,331.50	158.07	104.40	0.00	0.00	0.00	0.00	17.42	3,721.33
Apr	42.89	771.50	834.28	510.28	631.61	1,182.21	148.32	85.17	0.00	0.00	0.00	0.00	16.95	3,408.82
May	39.71	749.50	811.53	526.50	698.80	1,333.61	152.14	94.37	0.00	0.00	0.00	0.00	17.55	3,634.49
Jun	34.05	732.07	788.96	518.16	690.23	1,306.50	145.64	105.91	0.00	0.00	0.00	0.00	17.03	3,572.42
Jul	32.28	714.42	766.34	514.72	691.96	1,320.54	150.06	106.36	0.00	0.00	0.00	0.00	17.64	3,567.62
Aug	31.23	715.90	766.85	517.07	688.87	1,319.00	148.04	99.91	0.00	0.00	0.00	0.00	17.87	3,557.62
Sep	31.81	720.62	772.81	512.91	676.65	1,289.63	140.58	105.57	0.00	0.00	0.00	0.00	17.37	3,515.53
Oct	32.06	695.36	745.37	507.48	662.63	1,311.28	142.37	110.28	0.00	0.00	0.00	0.00	18.10	3,497.52
Nov	32.56	730.70	781.77	519.86	678.65	1,303.97	145.66	104.09	0.00	0.00	0.00	0.00	17.66	3,551.66
Dec	29.43	648.25	695.96	473.95	633.03	1,185.20	132.22	89.41	0.00	0.00	0.00	0.00	17.74	3,227.50
YTD	411.35	8,435.10	9,079.16	6,039.00	8,061.22	15,189.57	1,729.67	1,175.48	0.00	0.00	0.00	0.00	208.18	41,482.28
2007														
Jan	27.36	563.60	604.40	439.97	608.83	1,222.43	131.29	89.22	0.00	0.00	0.00	0.00	18.42	3,114.56
Feb	30.04	629.04	674.37	464.07	599.66	1,163.32	129.08	90.91	0.00	0.00	0.00	0.00	16.69	3,138.10
Mar	39.30	791.57	852.07	551.83	723.00	1,370.58	162.40	104.91	0.00	0.00	0.00	0.00	18.59	3,783.37
Apr	41.10	798.01	859.27	530.71	632.22	1,238.09	153.97	91.48	0.00	0.00	0.00	0.00	18.11	3,523.86
May	39.30	768.72	830.26	536.69	687.60	1,347.43	152.57	102.92	0.00	0.00	0.00	0.00	18.74	3,676.24
Jun	35.42	815.92	873.03	559.95	707.02	1,338.71	156.41	117.92	0.00	0.00	0.00	0.00	18.23	3,771.28
Jul	32.82	731.60	782.47	521.66	677.82	1,329.75	149.57	110.55	0.00	0.00	0.00	0.00	18.96	3,590.77
Aug	31.27	748.21	800.72	526.30	687.96	1,333.33	154.12	108.52	0.00	0.00	0.00	0.00	19.11	3,630.06
Sep	31.19	761.60	811.44	534.84	680.54	1,309.17	149.42	111.36	0.00	0.00	0.00	0.00	18.59	3,615.36
Oct	31.16	716.41	766.53	516.35	669.37	1,334.57	149.15	96.78	0.00	0.00	0.00	0.00	19.27	3,552.01
Nov	28.34	648.02	691.96	484.53	648.66	1,266.31	139.84	96.99	0.00	0.00	0.00	0.00	18.73	3,347.03
Dec	28.64	639.68	683.89	483.42	636.57	1,230.44	145.85	93.17	0.00	0.00	0.00	0.00	19.44	3,292.78
YTD	395.94	8,612.39	9,230.43	6,150.31	7,959.27	15,484.14	1,773.67	1,214.71	0.00	0.00	0.00	0.00	222.88	42,035.41

Table 5.2-1M Electricity Consumption in MEA Service Areas (Classified by Tariff) (Cont.)

Unit : GWh

Month	Residential			Small General	Medium General	Large General	Specific Business	Gov.& Nonprofit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	<150 kWh	>150 kWh	Total											
2008														
Jan	30.47	661.22	707.48	491.41	646.94	1,273.01	147.21	94.51	0.00	0.00	0.00	0.00	19.49	3,380.06
Feb	32.63	667.19	715.97	493.14	629.54	1,229.92	139.74	94.58	0.00	0.00	0.00	0.00	18.29	3,321.18
Mar	37.14	750.11	805.01	535.02	713.67	1,374.66	161.33	102.68	0.00	0.00	0.00	0.00	19.64	3,712.02
Apr	40.85	838.05	900.30	546.70	630.62	1,257.13	158.31	93.81	0.00	0.00	0.00	0.00	19.06	3,605.94
May	38.50	786.80	845.24	548.11	706.87	1,364.61	160.04	105.44	0.00	0.00	0.00	0.00	19.73	3,750.04
Jun	34.31	762.81	815.90	540.29	691.31	1,342.36	155.72	116.72	0.00	0.00	0.00	0.00	19.13	3,681.41
Jul	32.10	760.29	810.09	537.39	687.00	1,344.63	158.11	112.96	0.00	0.00	0.00	0.00	19.81	3,669.99
Aug	32.51	775.68	829.35	551.11	692.40	1,366.03	161.17	119.93	0.00	0.00	0.00	0.00	19.86	3,739.84
Sep	31.94	757.61	807.66	536.81	661.23	1,270.95	147.73	110.28	0.00	0.00	0.00	0.00	19.28	3,553.93
Oct	32.73	765.03	817.12	543.11	672.09	1,315.06	155.78	113.44	0.00	0.00	0.00	0.00	20.01	3,636.61
Nov	29.70	671.20	715.17	488.99	619.89	1,173.34	140.20	102.17	0.00	0.00	0.00	0.00	19.41	3,259.19
Dec	26.75	571.42	612.13	441.01	561.93	1,082.31	123.94	84.27	0.00	0.00	0.00	0.00	20.09	2,925.69
YTD	399.63	8,767.42	9,381.42	6,253.09	7,913.50	15,394.02	1,809.30	1,250.78	0.00	0.00	0.00	0.00	233.80	42,235.91
2009														
Jan	27.15	555.09	595.56	427.39	528.53	1,049.35	125.85	81.93	0.00	0.00	0.00	0.00	20.51	2,829.12
Feb	36.88	706.22	759.95	505.98	586.21	1,098.76	138.58	98.38	0.00	0.00	0.00	0.00	18.91	3,206.77
Mar	44.54	816.57	877.06	569.92	671.74	1,238.38	162.63	111.58	0.00	0.00	0.00	0.00	21.37	3,652.68
Apr	47.22	851.24	920.31	544.84	587.89	1,106.23	151.46	94.50	0.00	0.00	0.00	0.00	21.81	3,427.04
May	41.43	816.05	878.82	556.50	657.24	1,234.67	154.70	109.12	0.00	0.00	0.00	0.00	22.27	3,613.31
Jun	34.89	798.27	849.78	549.11	663.21	1,245.42	151.88	116.47	0.00	0.00	0.00	0.00	22.00	3,597.87
Jul	32.97	779.64	834.35	541.43	674.88	1,273.30	153.58	115.76	0.00	0.00	0.00	0.00	23.21	3,616.52
Aug	34.07	824.89	877.83	561.05	677.67	1,296.83	160.97	117.81	0.00	0.00	0.00	0.00	23.69	3,715.85
Sep	33.76	813.30	866.66	554.51	663.66	1,255.85	151.46	116.93	0.00	0.00	0.00	0.00	23.40	3,632.47
Oct	32.83	762.08	812.69	535.06	668.56	1,318.33	155.18	120.31	0.00	0.00	0.00	0.00	24.69	3,634.82
Nov	31.25	737.57	784.09	519.36	642.83	1,245.18	140.58	106.61	0.00	0.00	0.00	0.00	24.39	3,463.03
Dec	29.40	675.68	722.16	514.50	596.89	1,242.76	142.94	98.85	0.00	0.00	0.00	0.00	25.73	3,343.82
YTD	426.38	9,136.60	9,779.26	6,379.67	7,619.31	14,605.04	1,789.81	1,288.25	0.00	0.00	0.00	0.00	271.96	41,733.30

Table 5.2-1M Electricity Consumption in MEA Service Areas (Classified by Tariff) (Cont.)

Month	Residential			Small General	Medium General	Large General	Specific Business	Gov.& Nonprofit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	<150 kWh	>150 kWh	Total											
2010														
Jan	32.10	725.69	776.32	523.86	609.93	1,272.82	147.22	104.82	0.00	0.00	0.00	0.00	26.23	3,461.18
Feb	35.17	783.12	836.16	559.48	603.95	1,271.27	145.57	108.85	0.00	0.00	0.00	0.00	23.73	3,549.02
Mar	39.28	865.74	925.56	585.78	678.58	1,432.43	164.48	110.19	0.00	0.00	0.00	0.00	26.32	3,923.33
Apr	43.53	960.17	1,026.50	598.13	615.76	1,260.79	156.04	105.70	0.00	0.00	0.00	0.00	26.37	3,789.30
May	44.27	1,015.32	1,082.18	624.80	658.62	1,368.39	150.06	107.04	0.00	0.00	0.00	0.00	26.38	4,017.47
Jun	37.92	942.92	1,003.40	613.49	680.63	1,418.06	152.60	127.41	0.00	0.00	0.00	0.00	25.56	4,021.16
Jul	32.65	879.08	930.91	592.56	668.85	1,443.33	159.40	125.18	0.00	0.00	0.00	0.00	26.47	3,946.69
Aug	30.25	827.78	876.83	569.51	644.83	1,403.22	149.56	124.77	0.00	0.00	0.00	0.00	26.54	3,795.27
Sep	30.47	824.46	873.47	574.41	656.37	1,411.03	148.84	123.86	0.00	0.00	0.00	0.00	25.73	3,813.71
Oct	30.44	773.87	820.60	550.39	636.84	1,393.15	145.94	110.04	0.00	0.00	0.00	0.00	26.70	3,683.66
Nov	30.01	742.14	787.33	532.06	617.34	1,351.20	138.39	102.75	0.00	0.00	0.00	0.00	25.88	3,554.94
Dec	30.26	729.33	776.67	534.71	614.24	1,300.25	144.48	107.29	0.00	0.00	0.00	0.00	26.80	3,504.43
YTD	416.35	10,069.61	10,715.93	6,859.18	7,685.95	16,325.93	1,802.57	1,357.89	0.00	0.00	0.00	0.00	312.71	45,060.16

Unit : GWh

Source : MEA

Table 5.2-2M Electricity Consumption in PEA Service Areas (Classified by Tariff)

Unit : GWh

Month	Residential			Small General	Medium General	Large General	Specific Business	Gov.& Nonprofit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	<150 kWh	>150 kWh	Total											
2006														
Jan	539.10	737.28	1,276.37	471.42	1,034.45	2,792.26	158.90	192.04	27.59	45.55	14.06	174.42	98.76	6,285.83
Feb	527.88	745.63	1,273.51	479.45	1,039.44	2,797.42	159.11	200.87	32.85	49.19	26.31	174.56	95.16	6,327.87
Mar	646.43	855.78	1,502.21	546.88	1,231.41	3,207.57	185.95	238.02	35.14	50.57	27.84	183.23	100.46	7,309.26
Apr	693.62	918.52	1,612.14	571.04	1,127.66	2,878.42	183.82	224.86	28.00	48.77	19.19	182.75	98.69	6,975.32
May	676.74	915.01	1,591.75	573.75	1,233.83	3,202.67	176.32	223.44	17.77	49.54	30.77	178.72	97.41	7,375.98
Jun	623.95	901.05	1,524.99	554.75	1,218.39	3,130.21	169.31	247.35	15.24	50.14	5.05	175.32	192.72	7,283.48
Jul	614.36	919.74	1,534.10	559.66	1,215.15	3,169.53	179.13	250.70	19.22	51.11	2.77	183.41	99.03	7,263.80
Aug	602.03	916.98	1,519.01	562.06	1,235.67	3,175.84	178.88	253.87	20.13	51.34	5.65	176.61	101.33	7,280.39
Sep	599.13	901.15	1,500.29	554.23	1,216.00	3,142.51	163.97	271.24	10.84	52.07	3.57	176.41	103.07	7,194.21
Oct	606.72	900.06	1,506.79	550.16	1,209.58	3,182.13	170.98	232.17	4.88	53.65	5.65	159.63	107.55	7,183.16
Nov	583.89	885.99	1,469.88	550.64	1,217.62	3,105.21	174.03	233.86	10.01	53.15	4.25	164.55	115.83	7,099.04
Dec	571.20	885.99	1,457.19	545.44	1,166.36	2,844.75	175.19	235.17	18.35	55.42	7.82	181.14	117.83	6,804.66
YTD	7,285.05	10,483.18	17,768.23	6,519.48	14,145.57	36,628.50	2,075.60	2,803.58	240.02	610.50	152.93	2,110.77	1,327.84	84,383.01
2007														
Jan	531.99	775.84	1,307.83	499.25	1,136.07	3,006.31	173.64	200.91	31.92	49.31	0.36	166.39	115.11	6,687.08
Feb	513.16	767.06	1,280.22	492.09	1,107.48	2,893.33	166.96	206.39	36.92	50.19	1.90	154.90	110.20	6,500.57
Mar	659.30	974.83	1,634.13	605.30	1,335.94	3,333.64	205.65	253.88	37.63	54.66	4.25	192.08	113.57	7,770.74
Apr	689.57	1,007.85	1,697.43	614.64	1,234.12	2,947.24	202.67	241.57	33.08	53.89	5.19	177.42	113.66	7,320.92
May	682.51	978.72	1,661.23	611.77	1,277.34	3,341.90	187.10	240.30	12.56	52.57	6.62	162.37	110.13	7,663.89
Jun	650.94	1,027.88	1,678.82	626.13	1,300.71	3,274.53	187.75	282.06	16.45	54.69	2.35	161.97	108.58	7,694.04
Jul	622.80	997.83	1,620.63	613.95	1,231.24	3,361.52	192.10	282.64	27.91	53.61	2.20	187.53	111.58	7,684.92
Aug	625.34	1,013.89	1,639.23	614.16	1,227.19	3,403.70	196.97	271.78	22.25	55.14	2.79	181.57	114.95	7,729.74
Sep	603.91	986.90	1,590.80	601.24	1,224.15	3,354.62	187.04	298.77	10.72	55.75	3.19	169.40	117.92	7,613.61
Oct	610.64	980.25	1,590.89	603.06	1,217.65	3,435.30	185.56	256.80	8.79	56.42	3.38	160.32	122.23	7,640.39
Nov	589.31	941.18	1,530.48	592.01	1,193.65	3,312.37	176.62	236.95	11.09	55.57	3.28	165.68	126.91	7,404.63
Dec	568.10	907.75	1,475.85	583.03	1,181.13	3,169.29	192.64	243.03	18.43	56.91	2.64	188.29	135.52	7,246.77
YTD	7,347.58	11,359.97	18,707.55	7,056.63	14,666.67	38,833.76	2,254.71	3,015.08	267.77	648.70	38.16	2,067.92	1,400.35	88,957.32

Table 5.2-2M Electricity Consumption in PEA Service Areas (Classified by Tariff) (Cont.)

Unit : GWh

Month	Residential			Small General	Medium General	Large General	Specific Business	Gov.& Nonprofit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible		Free of Charge	Total
	<150 kWh	>150 kWh	Total									Rate	Rate		
2008															
Jan	561.28	895.89	1,457.17	573.10	1,162.40	3,275.49	197.83	232.48	35.78	51.20	3.21	163.77	139.53	7,291.96	
Feb	553.99	908.45	1,462.44	575.90	1,150.47	3,176.16	192.30	235.78	35.29	55.10	2.58	165.08	134.93	7,186.02	
Mar	624.03	966.02	1,590.05	611.17	1,296.91	3,573.23	219.91	252.32	43.28	58.49	4.10	158.97	124.97	7,933.40	
Apr	691.63	1,096.84	1,788.47	661.97	1,212.84	3,188.60	220.66	248.79	38.38	56.55	6.10	140.62	122.27	7,685.23	
May	666.97	1,034.06	1,701.03	644.89	1,299.06	3,547.38	210.98	251.72	14.47	57.04	10.66	143.70	122.86	8,003.78	
Jun	630.10	1,008.21	1,638.30	632.92	1,272.08	3,447.48	197.51	284.09	14.90	58.12	14.85	161.73	121.97	7,843.97	
Jul	632.85	1,055.44	1,688.29	654.79	1,298.88	3,569.16	209.15	281.81	26.56	59.36	12.37	158.78	126.44	8,085.59	
Aug	639.47	1,053.32	1,692.78	657.43	1,311.18	3,491.66	212.47	290.67	20.50	59.78	4.95	155.32	128.44	8,025.20	
Sep	620.52	1,010.38	1,630.90	633.54	1,284.31	3,290.45	189.83	316.31	13.86	59.25	7.05	129.31	127.47	7,682.29	
Oct	652.41	1,080.61	1,733.02	662.86	1,259.64	3,322.52	208.09	271.46	11.86	61.69	11.61	147.97	132.27	7,822.98	
Nov	584.44	936.31	1,520.75	597.43	1,191.41	3,024.30	187.06	252.05	5.98	57.71	8.43	136.30	130.67	7,112.09	
Dec	547.10	859.50	1,406.59	570.59	1,054.22	2,697.13	179.35	223.31	20.60	55.05	6.95	127.66	131.80	6,473.26	
YTD	7,404.77	11,905.03	19,309.80	7,476.60	14,793.40	39,603.55	2,425.15	3,140.78	281.46	689.34	92.84	1,789.21	1,543.63	91,145.76	
2009															
Jan	565.98	857.77	1,423.76	559.00	1,012.74	2,645.18	185.16	217.87	38.06	52.57	7.02	136.52	137.20	6,415.08	
Feb	582.13	868.02	1,450.14	572.53	1,073.55	2,696.21	197.70	241.22	44.72	56.96	12.35	134.47	125.39	6,605.24	
Mar	741.10	1,071.14	1,812.24	697.72	1,252.51	3,169.72	229.80	296.80	45.88	59.31	5.92	148.03	136.79	7,854.73	
Apr	759.14	1,087.27	1,846.41	688.93	1,172.86	2,861.58	230.68	253.39	33.13	55.00	24.27	144.00	130.01	7,440.26	
May	757.00	1,104.30	1,861.30	705.17	1,287.67	3,242.55	218.46	281.66	20.17	57.35	3.03	153.43	132.08	7,962.87	
Jun	659.89	1,081.07	1,740.96	673.76	1,232.23	3,327.83	209.67	311.00	18.99	57.40	3.85	128.82	129.38	7,833.90	
Jul	663.72	1,111.74	1,775.46	685.09	1,263.37	3,392.40	219.89	296.08	24.07	55.27	9.80	129.98	132.07	7,983.46	
Aug	672.80	1,150.15	1,822.95	704.73	1,311.17	3,430.48	228.57	318.80	26.00	57.67	3.96	131.21	135.60	8,171.14	
Sep	657.39	1,101.44	1,758.83	688.93	1,279.43	3,384.41	213.14	351.11	16.94	55.77	7.08	124.32	89.61	7,969.59	
Oct	671.01	1,117.39	1,788.40	690.54	1,288.38	3,565.09	222.62	288.76	10.16	56.67	6.23	122.97	140.57	8,180.39	
Nov	612.56	1,041.81	1,654.37	661.27	1,245.02	3,350.52	210.11	279.23	12.21	54.05	5.52	126.28	139.67	7,738.24	
Dec	573.93	968.47	1,542.41	634.95	1,246.36	3,292.63	223.61	252.45	27.52	52.98	4.03	145.80	142.77	7,565.51	
YTD	7,916.66	12,560.58	20,477.24	7,962.63	14,665.28	38,358.60	2,589.40	3,388.37	317.86	670.99	93.07	1,625.82	1,571.14	91,720.40	

Electricity

Table 5.2-2M Electricity Consumption in PEA Service Areas (Classified by Tariff) (Cont.)

Unit : GWh

Month	Residential			Small General	Medium General	Large General	Specific Business	Gov.& Nonprofit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	<150 kWh	>150 kWh	Total											
2010														
Jan	624.57	1,026.87	1,651.43	665.04	1,222.39	3,392.13	236.31	266.29	43.65	55.68	4.70	145.29	147.91	7,830.84
Feb	616.07	1,012.34	1,628.41	654.38	1,216.95	3,352.76	239.13	282.31	48.48	55.05	2.39	130.20	135.89	7,745.96
Mar	738.03	1,209.03	1,947.06	761.76	1,414.30	3,806.29	267.67	306.24	55.49	63.27	4.23	142.72	144.42	8,913.45
Apr	800.67	1,307.21	2,107.89	783.30	1,333.73	3,436.32	272.36	293.57	42.42	64.02	3.06	133.67	139.74	8,610.07
May	817.98	1,404.17	2,222.15	827.12	1,450.94	3,806.40	268.27	333.12	27.34	80.89	4.01	150.84	140.92	9,311.98
Jun	702.40	1,301.50	2,003.90	765.09	1,391.45	3,670.77	239.25	348.73	27.45	75.17	3.62	142.81	136.22	8,804.45
Jul	679.60	1,296.09	1,975.69	759.76	1,402.83	3,799.91	247.79	347.09	30.43	61.61	10.53	147.38	145.65	8,928.66
Aug	649.42	1,235.31	1,884.73	726.55	1,374.60	3,786.53	242.97	316.43	11.57	59.38	6.70	136.65	144.50	8,690.60
Sep	633.15	1,195.15	1,828.31	707.14	1,367.99	3,723.77	233.82	340.64	8.52	60.04	4.63	120.52	133.62	8,529.01
Oct	663.11	1,226.26	1,889.38	731.38	1,332.42	3,890.23	239.97	305.52	9.46	62.61	7.90	133.92	152.73	8,755.54
Nov	587.22	1,062.04	1,649.26	655.85	1,276.93	3,691.60	220.43	271.30	9.62	59.19	19.69	127.60	145.47	8,126.95
Dec	607.74	1,104.63	1,712.37	689.29	1,276.79	3,643.38	239.39	280.24	20.87	64.93	10.64	130.78	153.89	8,222.58
YTD	8,119.97	14,380.59	22,500.56	8,726.67	16,061.32	44,000.09	2,947.36	3,691.49	335.29	761.84	82.09	1,642.39	1,720.98	102,470.08

Source : PEA

Table 5.2-3M Electricity Consumption for the Whole Country (Classified by Tariff)

Unit : GWh

Month	Residential			Small General	Medium General	Large General	Specific Business	Gov.& Nonprofit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total	Direct Customer	Grand Total
	<150 kWh	>150 kWh	Total													
2006																
Jan	568.67	1,305.38	1,888.10	906.78	1,649.11	3,957.92	293.26	273.84	27.59	45.55	14.06	174.42	115.93	9,346.58	170.77	9,517.34
Feb	561.78	1,379.00	1,958.18	946.48	1,678.19	3,937.89	291.31	289.07	32.85	49.19	26.31	174.56	110.86	9,494.91	157.42	9,652.33
Mar	688.30	1,611.08	2,321.09	1,082.55	1,986.80	4,539.06	344.02	342.41	35.14	50.57	27.84	183.23	117.88	11,030.60	153.27	11,183.87
Apr	736.51	1,690.02	2,446.42	1,081.31	1,759.27	4,060.62	332.14	310.03	28.00	48.77	19.19	182.75	115.64	10,384.14	170.53	10,554.67
May	716.45	1,664.51	2,403.27	1,100.25	1,932.63	4,536.28	328.46	317.81	17.77	49.54	30.77	178.72	114.95	11,010.47	180.85	11,191.31
Jun	658.00	1,633.12	2,313.95	1,072.91	1,908.62	4,436.71	314.96	353.26	15.24	50.14	5.05	175.32	209.75	10,855.91	187.23	11,043.13
Jul	646.64	1,634.16	2,300.44	1,074.38	1,907.10	4,490.07	329.19	357.06	19.22	51.11	2.77	183.41	116.67	10,831.42	175.24	11,006.66
Aug	633.26	1,632.88	2,285.86	1,079.14	1,924.54	4,494.84	326.92	353.78	20.13	51.34	5.65	176.61	119.20	10,838.01	176.66	11,014.67
Sep	630.94	1,621.77	2,273.10	1,067.14	1,892.66	4,432.13	304.55	376.81	10.84	52.07	3.57	176.41	120.45	10,709.74	157.32	10,867.05
Oct	638.78	1,595.42	2,252.16	1,057.64	1,872.21	4,493.41	313.35	342.45	4.88	53.65	5.65	159.63	125.64	10,680.68	163.13	10,843.81
Nov	616.45	1,616.69	2,251.65	1,070.50	1,896.27	4,409.18	319.69	337.95	10.01	53.15	4.25	164.55	133.48	10,650.70	154.14	10,804.84
Dec	600.62	1,534.24	2,153.15	1,019.39	1,799.38	4,029.95	307.41	324.58	18.35	55.42	7.82	181.14	135.57	10,032.16	167.45	10,199.60
YTD	7,696.40	18,918.28	26,847.38	12,558.48	22,206.79	51,818.08	3,805.26	3,979.06	240.02	610.50	152.93	2,110.77	1,536.02	125,865.29	2,013.99	127,879.29
2007																
Jan	559.35	1,339.43	1,912.23	939.21	1,744.90	4,228.74	304.92	290.13	31.92	49.31	0.36	166.39	133.52	9,801.64	172.21	9,973.85
Feb	543.20	1,396.11	1,954.59	956.15	1,707.15	4,056.65	296.04	297.29	36.92	50.19	1.90	154.90	126.89	9,638.67	154.87	9,793.54
Mar	698.60	1,766.40	2,486.21	1,157.14	2,058.94	4,704.22	368.04	358.79	37.63	54.66	4.25	192.08	132.16	11,554.12	174.65	11,728.77
Apr	730.67	1,805.87	2,556.70	1,145.36	1,866.34	4,185.33	356.64	333.05	33.08	53.89	5.19	177.42	131.77	10,844.77	189.56	11,034.33
May	721.81	1,747.44	2,491.49	1,148.46	1,964.94	4,689.34	339.68	343.23	12.56	52.57	6.62	162.37	128.87	11,340.13	176.10	11,516.23
Jun	686.36	1,843.80	2,551.85	1,186.08	2,007.73	4,613.24	344.17	399.97	16.45	54.69	2.35	161.97	126.81	11,465.31	160.70	11,626.01
Jul	655.62	1,729.44	2,403.10	1,135.61	1,909.06	4,691.27	341.67	393.18	27.91	53.61	2.20	187.53	130.54	11,275.69	180.42	11,456.11
Aug	656.62	1,762.10	2,439.96	1,140.46	1,915.15	4,737.04	351.09	380.30	22.25	55.14	2.79	181.57	134.05	11,359.80	185.97	11,545.77
Sep	635.10	1,748.50	2,402.25	1,136.08	1,904.69	4,663.78	336.46	410.13	10.72	55.75	3.19	169.40	136.52	11,228.98	166.49	11,395.47
Oct	641.80	1,696.66	2,357.42	1,119.41	1,887.01	4,769.86	334.71	353.57	8.79	56.42	3.38	160.32	141.49	11,192.40	179.24	11,371.64
Nov	617.65	1,589.19	2,222.45	1,076.54	1,842.32	4,578.68	316.46	333.94	11.09	55.57	3.28	165.68	145.64	10,751.67	177.75	10,929.42
Dec	596.74	1,547.43	2,159.74	1,066.45	1,817.70	4,399.73	338.50	336.20	18.43	56.91	2.64	188.29	154.96	10,539.55	202.13	10,741.68
YTD	7,743.53	19,972.36	27,937.98	13,206.94	22,625.94	54,317.90	4,028.38	4,229.80	267.77	648.70	38.16	2,067.92	1,623.24	130,992.73	2,120.09	133,112.81

Electricity

Table 5.2-3M Electricity Consumption for the Whole Country (Classified by Tariff) (Cont.)

Unit : GWh

Month	Residential			Small General	Medium General	Large General	Specific Business	Gov.& Nonprofit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total	Direct Customer	Grand Total
	<150 kWh	>150 kWh	Total													
2008																
Jan	591.75	1,557.11	2,164.65	1,064.52	1,809.34	4,548.50	345.04	326.99	35.78	51.20	3.21	163.77	159.02	10,672.02	174.41	10,846.43
Feb	586.62	1,575.65	2,178.41	1,069.04	1,780.01	4,406.08	332.05	330.36	35.29	55.10	2.58	165.08	153.22	10,507.20	175.39	10,682.60
Mar	661.17	1,716.13	2,395.06	1,146.19	2,010.57	4,947.90	381.24	355.00	43.28	58.49	4.10	158.97	144.61	11,645.42	204.67	11,850.09
Apr	732.48	1,934.89	2,688.77	1,208.67	1,843.46	4,445.73	378.97	342.60	38.38	56.55	6.10	140.62	141.34	11,291.17	180.62	11,471.79
May	705.47	1,820.86	2,546.26	1,193.01	2,005.93	4,911.99	371.02	357.16	14.47	57.04	10.66	143.70	142.59	11,753.82	180.24	11,934.06
Jun	664.41	1,771.02	2,454.20	1,173.21	1,963.39	4,789.84	353.23	400.81	14.90	58.12	14.85	161.73	141.10	11,525.38	195.72	11,721.09
Jul	664.95	1,815.74	2,498.38	1,192.18	1,985.88	4,913.78	367.27	394.77	26.56	59.36	12.37	158.78	146.25	11,755.58	188.44	11,944.02
Aug	671.97	1,828.99	2,522.13	1,208.53	2,003.58	4,857.70	373.65	410.60	20.50	59.78	4.95	155.32	148.30	11,765.04	216.26	11,981.30
Sep	652.46	1,767.99	2,438.56	1,170.35	1,945.54	4,561.39	337.56	426.59	13.86	59.25	7.05	129.31	146.76	11,236.22	174.46	11,410.67
Oct	685.14	1,845.64	2,550.14	1,205.97	1,931.73	4,637.58	363.87	384.90	11.86	61.69	11.61	147.97	152.28	11,459.59	157.72	11,617.31
Nov	614.14	1,607.51	2,235.92	1,086.42	1,811.30	4,197.64	327.27	354.22	5.98	57.71	8.43	136.30	150.08	10,371.29	141.64	10,512.93
Dec	573.85	1,430.92	2,018.72	1,011.60	1,616.15	3,779.45	303.29	307.58	20.60	55.05	6.95	127.66	151.89	9,398.95	149.05	9,547.99
YTD	7,804.40	20,672.45	28,691.22	13,729.70	22,706.90	54,997.57	4,234.45	4,391.56	281.46	689.34	92.84	1,789.21	1,777.43	133,381.68	2,138.61	135,520.29
2009																
Jan	593.13	1,412.86	2,019.32	986.39	1,541.27	3,694.52	311.01	299.81	38.06	52.57	7.02	136.52	157.71	9,244.20	144.61	9,388.82
Feb	619.00	1,574.24	2,210.10	1,078.51	1,659.76	3,794.96	336.27	339.61	44.72	56.96	12.35	134.47	144.29	9,812.01	142.33	9,954.34
Mar	785.64	1,887.71	2,689.30	1,267.64	1,924.25	4,408.10	392.43	408.38	45.88	59.31	5.92	148.03	158.16	11,507.41	143.81	11,651.21
Apr	806.36	1,938.51	2,766.73	1,233.77	1,760.75	3,967.80	382.13	347.89	33.13	55.00	24.27	144.00	151.82	10,867.30	136.95	11,004.25
May	798.43	1,920.35	2,740.12	1,261.67	1,944.91	4,477.22	373.16	390.78	20.17	57.35	3.03	153.43	154.34	11,576.18	172.27	11,748.45
Jun	694.78	1,879.33	2,590.73	1,222.87	1,895.44	4,573.25	361.55	427.48	18.99	57.40	3.85	128.82	151.38	11,431.76	137.33	11,569.10
Jul	696.69	1,891.39	2,609.81	1,226.53	1,938.25	4,665.70	373.47	411.85	24.07	55.27	9.80	129.98	155.27	11,599.98	149.99	11,749.97
Aug	706.87	1,975.04	2,700.78	1,265.79	1,988.84	4,727.31	389.54	436.60	26.00	57.67	3.96	131.21	159.29	11,886.99	151.50	12,038.48
Sep	691.15	1,914.74	2,625.49	1,243.44	1,943.09	4,640.26	364.60	468.04	16.94	55.77	7.08	124.32	113.02	11,602.06	138.06	11,740.12
Oct	703.85	1,879.47	2,601.09	1,225.61	1,956.94	4,883.42	377.80	409.07	10.16	56.67	6.23	122.97	165.26	11,815.21	134.36	11,949.57
Nov	643.81	1,779.38	2,438.46	1,180.63	1,887.84	4,595.70	350.69	385.84	12.21	54.05	5.52	126.28	164.05	11,201.27	136.61	11,337.88
Dec	603.33	1,644.15	2,264.57	1,149.45	1,843.25	4,535.39	366.54	351.30	27.52	52.98	4.03	145.80	168.50	10,909.33	139.32	11,048.65
YTD	8,343.04	21,697.18	30,256.50	14,342.30	22,284.59	52,963.64	4,379.21	4,676.62	317.86	670.99	93.07	1,625.82	1,843.11	133,453.70	1,727.13	135,180.83

Table 5.2-3M Electricity Consumption for the Whole Country (Classified by Tariff) (Cont.)

Unit : GWh

Month	Residential			Small General	Medium General	Large General	Specific Business	Gov.& Nonprofit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total	Direct Customer	Grand Total
	<150 kWh	>150 kWh	Total													
2010																
Jan	656.66	1,752.56	2,427.75	1,188.89	1,832.32	4,664.95	383.53	371.12	43.65	55.68	4.70	145.29	174.14	11,292.02	141.19	11,433.21
Feb	651.24	1,795.46	2,464.57	1,213.87	1,820.90	4,624.03	384.71	391.16	48.48	55.05	2.39	130.20	159.62	11,294.98	135.14	11,430.12
Mar	777.31	2,074.77	2,872.62	1,347.54	2,092.88	5,238.71	432.15	416.43	55.49	63.27	4.23	142.72	170.74	12,836.78	138.63	12,975.41
Apr	844.20	2,267.38	3,134.39	1,381.43	1,949.49	4,697.12	428.39	399.27	42.42	64.02	3.06	133.67	166.10	12,399.37	148.36	12,547.72
May	862.25	2,419.49	3,304.33	1,451.91	2,109.56	5,174.79	418.33	440.15	27.34	80.89	4.01	150.84	167.30	13,329.45	149.31	13,478.76
Jun	740.32	2,244.42	3,007.30	1,378.59	2,072.08	5,088.83	391.84	476.14	27.45	75.17	3.62	142.81	161.78	12,825.61	142.64	12,968.25
Jul	712.25	2,175.16	2,906.59	1,352.32	2,071.68	5,243.23	407.20	472.27	30.43	61.61	10.53	147.38	172.12	12,875.35	190.60	13,065.95
Aug	679.67	2,063.09	2,761.56	1,296.06	2,019.43	5,189.75	392.53	441.20	11.57	59.38	6.70	136.65	171.05	12,485.87	145.97	12,631.84
Sep	663.63	2,019.61	2,701.78	1,281.55	2,024.36	5,134.80	382.66	464.50	8.52	60.04	4.63	120.52	159.35	12,342.72	152.03	12,494.74
Oct	693.55	2,000.14	2,709.98	1,281.78	1,969.26	5,283.38	385.91	415.56	9.46	62.61	7.90	133.92	179.44	12,439.20	143.62	12,582.82
Nov	617.23	1,804.18	2,436.59	1,187.91	1,894.27	5,042.80	358.82	374.05	9.62	59.19	19.69	127.60	171.35	11,681.89	141.78	11,823.67
Dec	638.00	1,833.96	2,489.04	1,224.00	1,891.03	4,943.63	383.87	387.53	20.87	64.93	10.64	130.78	180.69	11,727.01	141.64	11,868.64
YTD	8,536.32	24,450.21	33,216.49	15,585.85	23,747.26	60,326.02	4,749.93	5,049.39	335.29	761.84	82.09	1,642.39	2,033.69	147,530.24	1,770.89	149,301.13

Source : MEA, PEA and EGAT

Table 5.2-4M Electricity Consumption in MEA Service Areas (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2006										
Jan	611.73	435.36	820.43	1,080.02	81.80	0.00	14.24	3,043.58	17.17	3,060.75
Feb	684.67	467.04	807.90	1,084.02	88.21	0.00	19.51	3,151.34	15.70	3,167.04
Mar	818.88	535.67	953.97	1,269.35	104.40	0.00	21.64	3,703.91	17.42	3,721.33
Apr	834.28	510.28	874.02	1,071.87	85.17	0.00	16.24	3,391.86	16.95	3,408.82
May	811.53	526.50	922.44	1,228.92	94.37	0.00	33.18	3,616.94	17.55	3,634.49
Jun	788.96	518.16	895.01	1,203.21	105.91	0.00	44.15	3,555.39	17.03	3,572.42
Jul	766.34	514.72	912.87	1,208.41	106.36	0.00	41.29	3,549.98	17.64	3,567.62
Aug	766.85	517.07	917.20	1,197.30	99.91	0.00	41.42	3,539.75	17.87	3,557.62
Sep	772.81	512.91	883.33	1,177.70	105.57	0.00	45.84	3,498.15	17.37	3,515.53
Oct	745.37	507.48	887.16	1,177.13	110.28	0.00	51.99	3,479.42	18.10	3,497.52
Nov	781.77	519.86	888.58	1,189.87	104.09	0.00	49.83	3,534.00	17.66	3,551.66
Dec	695.96	473.95	821.48	1,080.79	89.41	0.00	48.17	3,209.76	17.74	3,227.50
YTD	9,079.16	6,039.00	10,584.39	13,968.58	1,175.48	0.00	427.49	41,274.10	208.18	41,482.28
2007										
Jan	604.40	439.97	814.25	1,099.00	89.22	0.00	49.30	3,096.14	18.42	3,114.56
Feb	674.37	464.07	775.09	1,062.19	90.91	0.00	54.77	3,121.40	16.69	3,138.10
Mar	852.07	551.83	943.12	1,247.19	104.91	0.00	65.67	3,764.79	18.59	3,783.37
Apr	859.27	530.71	901.01	1,062.59	91.48	0.00	60.67	3,505.74	18.11	3,523.86
May	830.26	536.69	925.36	1,210.37	102.92	0.00	51.88	3,657.49	18.74	3,676.24
Jun	873.03	559.95	957.57	1,200.00	117.92	0.00	44.57	3,753.04	18.23	3,771.28
Jul	782.47	521.66	931.20	1,182.06	110.55	0.00	43.87	3,571.81	18.96	3,590.77
Aug	800.72	526.30	941.44	1,174.67	108.52	0.00	59.30	3,610.95	19.11	3,630.06
Sep	811.44	534.84	923.02	1,183.24	111.36	0.00	32.87	3,596.77	18.59	3,615.36
Oct	766.53	516.35	919.39	1,185.45	96.78	0.00	48.24	3,532.74	19.27	3,552.01
Nov	691.96	484.53	860.73	1,159.25	96.99	0.00	34.84	3,328.30	18.73	3,347.03
Dec	683.89	483.42	875.06	1,097.45	93.17	0.00	40.35	3,273.34	19.44	3,292.78
YTD	9,230.43	6,150.31	10,767.25	13,863.48	1,214.71	0.00	586.34	41,812.53	222.88	42,035.41

Table 5.2-4M Electricity Consumption in MEA Service Areas (Classified by Sector) (Cont.)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2008										
Jan	707.48	491.41	882.96	1,122.89	94.51	0.00	61.32	3,360.58	19.49	3,380.06
Feb	715.97	493.14	849.22	1,106.33	94.58	0.00	43.65	3,302.89	18.29	3,321.18
Mar	805.01	535.02	958.36	1,251.03	102.68	0.00	40.27	3,692.37	19.64	3,712.02
Apr	900.30	546.70	928.33	1,072.98	93.81	0.00	44.76	3,586.88	19.06	3,605.94
May	845.24	548.11	954.41	1,219.63	105.44	0.00	57.49	3,730.32	19.73	3,750.04
Jun	815.90	540.29	953.04	1,207.94	116.72	0.00	28.40	3,662.28	19.13	3,681.41
Jul	810.09	537.39	946.38	1,204.88	112.96	0.00	38.47	3,650.18	19.81	3,669.99
Aug	829.35	551.11	970.47	1,164.17	119.93	0.00	84.96	3,719.99	19.86	3,739.84
Sep	807.66	536.81	929.88	1,126.22	110.28	0.00	23.81	3,534.65	19.28	3,553.93
Oct	817.12	543.11	957.05	1,125.96	113.44	0.00	59.93	3,616.60	20.01	3,636.61
Nov	715.17	488.99	873.99	1,038.81	102.17	0.00	20.64	3,239.78	19.41	3,259.19
Dec	612.13	441.01	816.12	905.61	84.27	0.00	46.46	2,905.60	20.09	2,925.69
YTD	9,381.42	6,253.09	11,020.20	13,546.46	1,250.78	0.00	550.16	42,002.11	233.80	42,235.91
2009										
Jan	595.56	427.39	797.04	862.17	81.93	0.00	44.51	2,808.61	20.51	2,829.12
Feb	759.95	505.98	850.11	931.05	98.38	0.00	42.39	3,187.87	18.91	3,206.77
Mar	877.06	569.92	975.28	1,046.66	111.58	0.00	50.81	3,631.31	21.37	3,652.68
Apr	920.31	544.84	900.10	896.18	94.50	0.00	49.29	3,405.23	21.81	3,427.04
May	878.82	556.50	934.15	1,056.79	109.12	0.00	55.67	3,591.05	22.27	3,613.31
Jun	849.78	549.11	937.64	1,066.48	116.47	0.00	56.38	3,575.87	22.00	3,597.87
Jul	834.35	541.43	938.57	1,089.65	115.76	0.00	73.54	3,593.31	23.21	3,616.52
Aug	877.83	561.05	966.30	1,087.06	117.81	0.00	82.11	3,692.16	23.69	3,715.85
Sep	866.66	554.51	937.32	1,090.80	116.93	0.00	42.85	3,609.07	23.40	3,632.47
Oct	812.69	535.06	940.11	1,130.40	120.31	0.00	71.55	3,610.13	24.69	3,634.82
Nov	784.09	519.36	880.28	1,074.75	106.61	0.00	73.56	3,438.64	24.39	3,463.03
Dec	722.16	514.50	894.18	1,037.37	98.85	0.00	51.04	3,318.09	25.73	3,343.82
YTD	9,779.26	6,379.67	10,951.08	12,369.37	1,288.25	0.00	693.71	41,461.34	271.96	41,733.30

Table 5.2-4M Electricity Consumption in MEA Service Areas (Classified by Sector) (Cont.)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2010										
Jan	776.32	523.86	918.08	1,061.24	104.82	0.00	50.64	3,434.95	26.23	3,461.18
Feb	836.16	559.48	937.16	1,077.50	108.85	0.00	6.14	3,525.29	23.73	3,549.02
Mar	925.56	585.78	997.54	1,226.47	110.19	0.00	51.48	3,897.01	26.32	3,923.33
Apr	1,026.50	598.13	942.45	1,041.62	105.70	0.00	48.53	3,762.93	26.37	3,789.30
May	1,082.18	624.80	937.07	1,197.73	107.04	0.00	42.28	3,991.09	26.38	4,017.47
Jun	1,003.40	613.49	993.15	1,208.76	127.41	0.00	49.38	3,995.59	25.56	4,021.16
Jul	930.91	592.56	1,015.46	1,209.74	125.18	0.00	46.38	3,920.22	26.47	3,946.69
Aug	876.83	569.51	972.26	1,177.79	124.77	0.00	47.56	3,768.73	26.54	3,795.27
Sep	873.47	574.41	984.88	1,185.27	123.86	0.00	46.09	3,787.97	25.73	3,813.71
Oct	820.60	550.39	943.68	1,178.85	110.04	0.00	53.40	3,656.96	26.70	3,683.66
Nov	787.33	532.06	913.76	1,141.66	102.75	0.00	51.51	3,529.06	25.88	3,554.94
Dec	776.67	534.71	933.69	1,072.14	107.29	0.00	53.13	3,477.63	26.80	3,504.43
YTD	10,715.93	6,859.18	11,489.17	13,778.76	1,357.89	0.00	546.51	44,747.45	312.71	45,060.16

Source : MEA

Table 5.2-5M Electricity Consumption in PEA Service Areas (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2006										
Jan	1,276.37	471.42	577.40	3,575.82	192.04	27.59	66.43	6,187.07	98.76	6,285.83
Feb	1,273.51	479.45	571.33	3,614.86	200.87	32.85	59.84	6,232.70	95.16	6,327.87
Mar	1,502.21	546.88	676.52	4,146.52	238.02	35.14	63.53	7,208.81	100.46	7,309.26
Apr	1,612.14	571.04	645.16	3,734.52	224.86	28.00	60.92	6,876.63	98.69	6,975.32
May	1,591.75	573.75	666.99	4,142.99	223.44	17.77	61.88	7,278.57	97.41	7,375.98
Jun	1,524.99	554.75	660.58	4,024.22	247.35	15.24	63.63	7,090.76	192.72	7,283.48
Jul	1,534.10	559.66	693.59	4,046.71	250.70	19.22	60.80	7,164.77	99.03	7,263.80
Aug	1,519.01	562.06	697.07	4,065.05	253.87	20.13	61.86	7,179.06	101.33	7,280.39
Sep	1,500.29	554.23	667.98	4,023.49	271.24	10.84	63.06	7,091.13	103.07	7,194.21
Oct	1,506.79	550.16	694.64	4,022.51	232.17	4.88	64.48	7,075.62	107.55	7,183.16
Nov	1,469.88	550.64	702.14	3,950.88	233.86	10.01	65.80	6,983.21	115.83	7,099.04
Dec	1,457.19	545.44	657.86	3,703.78	235.17	18.35	69.04	6,686.83	117.83	6,804.66
YTD	17,768.23	6,519.48	7,911.25	47,051.36	2,803.58	240.02	761.27	83,055.17	1,327.84	84,383.01
2007										
Jan	1,307.83	499.25	639.08	3,837.52	200.91	31.92	55.47	6,571.98	115.11	6,687.08
Feb	1,280.22	492.09	613.54	3,704.81	206.39	36.92	56.40	6,390.37	110.20	6,500.57
Mar	1,634.13	605.30	752.48	4,310.87	253.88	37.63	62.86	7,657.17	113.57	7,770.74
Apr	1,697.43	614.64	731.24	3,830.63	241.57	33.08	58.66	7,207.26	113.66	7,320.92
May	1,661.23	611.77	728.31	4,241.55	240.30	12.56	58.04	7,553.77	110.13	7,663.89
Jun	1,678.82	626.13	753.54	4,169.14	282.06	16.45	59.34	7,585.46	108.58	7,694.04
Jul	1,620.63	613.95	748.96	4,221.98	282.64	27.91	57.27	7,573.34	111.58	7,684.92
Aug	1,639.23	614.16	756.59	4,250.90	271.78	22.25	59.87	7,614.79	114.95	7,729.74
Sep	1,590.80	601.24	741.77	4,191.16	298.77	10.72	61.22	7,495.69	117.92	7,613.61
Oct	1,590.89	603.06	730.95	4,264.68	256.80	8.79	63.00	7,518.17	122.23	7,640.39
Nov	1,530.48	592.01	694.35	4,148.22	236.95	11.09	64.62	7,277.72	126.91	7,404.63
Dec	1,475.85	583.03	729.53	4,000.70	243.03	18.43	60.67	7,111.25	135.52	7,246.77
YTD	18,707.55	7,056.63	8,620.35	49,172.17	3,015.08	267.77	717.41	87,556.96	1,400.35	88,957.32

Electricity

Table 5.2-5M Electricity Consumption in PEA Service Areas (Classified by Sector) (Cont.)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2008										
Jan	1,457.17	573.10	739.40	4,059.72	232.48	35.78	54.78	7,152.42	139.53	7,291.96
Feb	1,462.44	575.90	717.92	3,965.26	235.78	35.29	58.51	7,051.09	134.93	7,186.02
Mar	1,590.05	611.17	811.45	4,437.52	252.32	43.28	62.64	7,808.43	124.97	7,933.40
Apr	1,788.47	661.97	814.26	3,949.60	248.79	38.38	61.50	7,562.96	122.27	7,685.23
May	1,701.03	644.89	812.87	4,394.59	251.72	14.47	61.35	7,880.92	122.86	8,003.78
Jun	1,638.30	632.92	805.02	4,283.14	284.09	14.90	63.61	7,721.99	121.97	7,843.97
Jul	1,688.29	654.79	839.98	4,402.09	281.81	26.56	65.63	7,959.15	126.44	8,085.59
Aug	1,692.78	657.43	857.27	4,312.47	290.67	20.50	65.63	7,896.76	128.44	8,025.20
Sep	1,630.90	633.54	800.70	4,094.30	316.31	13.86	65.19	7,554.81	127.47	7,682.29
Oct	1,733.02	662.86	806.28	4,086.10	271.46	11.86	119.13	7,690.71	132.27	7,822.98
Nov	1,520.75	597.43	739.47	3,748.91	252.05	5.98	116.83	6,981.42	130.67	7,112.09
Dec	1,406.59	570.59	689.26	3,326.67	223.31	20.60	104.44	6,341.46	131.80	6,473.26
YTD	19,309.80	7,476.60	9,433.90	49,060.36	3,140.78	281.46	899.23	89,602.13	1,543.63	91,145.76
2009										
Jan	1,423.76	559.00	699.36	3,260.19	217.87	38.06	79.64	6,277.88	137.20	6,415.08
Feb	1,450.14	572.53	736.54	3,357.86	241.22	44.72	76.83	6,479.85	125.39	6,605.24
Mar	1,812.24	697.72	855.07	3,942.25	296.80	45.88	67.98	7,717.94	136.79	7,854.73
Apr	1,846.41	688.93	832.01	3,585.08	253.39	33.13	71.28	7,310.24	130.01	7,440.26
May	1,861.30	705.17	848.36	4,041.40	281.66	20.17	72.72	7,830.79	132.08	7,962.87
Jun	1,740.96	673.76	857.81	4,036.65	311.00	18.99	65.35	7,704.51	129.38	7,833.90
Jul	1,775.46	685.09	868.80	4,131.93	296.08	24.07	69.95	7,851.40	132.07	7,983.46
Aug	1,822.95	704.73	894.87	4,205.95	318.80	26.00	62.23	8,035.53	135.60	8,171.14
Sep	1,758.83	688.93	854.41	4,143.98	351.11	16.94	65.77	7,879.97	89.61	7,969.59
Oct	1,788.40	690.54	865.96	4,326.99	288.76	10.16	69.01	8,039.82	140.57	8,180.39
Nov	1,654.37	661.27	817.71	4,113.87	279.23	12.21	59.92	7,598.58	139.67	7,738.24
Dec	1,542.41	634.95	842.16	4,047.97	252.45	27.52	75.28	7,422.74	142.77	7,565.51
YTD	20,477.24	7,962.63	9,973.04	47,194.14	3,388.37	317.86	835.97	90,149.26	1,571.14	91,720.40

Table 5.2-5M Electricity Consumption in PEA Service Areas (Classified by Sector) (Cont.)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2010										
Jan	1,651.43	665.04	852.99	4,076.12	266.29	43.65	127.39	7,682.92	147.91	7,830.84
Feb	1,628.41	654.38	848.29	4,015.62	282.31	48.48	132.58	7,610.07	135.89	7,745.96
Mar	1,947.06	761.76	961.28	4,614.01	306.24	55.49	123.19	8,769.03	144.42	8,913.45
Apr	2,107.89	783.30	966.02	4,156.93	293.57	42.42	120.20	8,470.33	139.74	8,610.07
May	2,222.15	827.12	992.58	4,621.07	333.12	27.34	147.69	9,171.06	140.92	9,311.98
Jun	2,003.90	765.09	947.37	4,409.59	348.73	27.45	166.10	8,668.23	136.22	8,804.45
Jul	1,975.69	759.76	1,032.42	4,573.95	347.09	30.43	63.68	8,783.01	145.65	8,928.66
Aug	1,884.73	726.55	941.16	4,510.99	316.43	11.57	154.68	8,546.10	144.50	8,690.60
Sep	1,828.31	707.14	935.83	4,448.08	340.64	8.52	126.87	8,395.39	133.62	8,529.01
Oct	1,889.38	731.38	914.12	4,623.81	305.52	9.46	129.13	8,602.80	152.73	8,755.54
Nov	1,649.26	655.85	865.75	4,378.91	271.30	9.62	150.78	7,981.48	145.47	8,126.95
Dec	1,712.37	689.29	899.02	4,332.29	280.24	20.87	134.60	8,068.68	153.89	8,222.58
YTD	22,500.56	8,726.67	11,156.83	52,761.37	3,691.49	335.29	1,576.89	100,749.10	1,720.98	102,470.08

Source : PEA

Table 5.2-6M Electricity Consumption for the Whole Country (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2006										
Jan	1,888.10	906.78	1,450.42	4,774.00	273.84	27.59	80.67	9,401.41	115.93	9,517.34
Feb	1,958.18	946.48	1,428.06	4,807.47	289.07	32.85	79.35	9,541.47	110.86	9,652.33
Mar	2,321.09	1,082.55	1,682.00	5,517.63	342.41	35.14	85.17	11,065.99	117.88	11,183.87
Apr	2,446.42	1,081.31	1,565.09	4,931.01	310.03	28.00	77.16	10,439.03	115.64	10,554.67
May	2,403.27	1,100.25	1,639.09	5,503.10	317.81	17.77	95.06	11,076.36	114.95	11,191.31
Jun	2,313.95	1,072.91	1,608.25	5,362.00	353.26	15.24	107.78	10,833.38	209.75	11,043.13
Jul	2,300.44	1,074.38	1,655.68	5,381.14	357.06	19.22	102.08	10,889.99	116.67	11,006.66
Aug	2,285.86	1,079.14	1,663.80	5,389.48	353.78	20.13	103.28	10,895.47	119.20	11,014.67
Sep	2,273.10	1,067.14	1,596.62	5,313.20	376.81	10.84	108.90	10,746.61	120.45	10,867.05
Oct	2,252.16	1,057.64	1,635.23	5,309.33	342.45	4.88	116.47	10,718.17	125.64	10,843.81
Nov	2,251.65	1,070.50	1,642.02	5,243.59	337.95	10.01	115.63	10,671.36	133.48	10,804.84
Dec	2,153.15	1,019.39	1,530.89	4,900.46	324.58	18.35	117.21	10,064.04	135.57	10,199.60
YTD	26,847.38	12,558.48	19,097.15	62,432.42	3,979.06	240.02	1,188.76	126,343.27	1,536.02	127,879.29
2007										
Jan	1,912.23	939.21	1,503.51	5,058.56	290.13	31.92	104.77	9,840.33	133.52	9,973.85
Feb	1,954.59	956.15	1,435.44	4,875.07	297.29	36.92	111.18	9,666.65	126.89	9,793.54
Mar	2,486.21	1,157.14	1,749.72	5,678.59	358.79	37.63	128.53	11,596.61	132.16	11,728.77
Apr	2,556.70	1,145.36	1,678.54	5,036.50	333.05	33.08	119.33	10,902.56	131.77	11,034.33
May	2,491.49	1,148.46	1,697.58	5,584.11	343.23	12.56	109.93	11,387.35	128.87	11,516.23
Jun	2,551.85	1,186.08	1,763.00	5,477.95	399.97	16.45	103.90	11,499.20	126.81	11,626.01
Jul	2,403.10	1,135.61	1,733.62	5,531.00	393.18	27.91	101.14	11,325.57	130.54	11,456.11
Aug	2,439.96	1,140.46	1,745.94	5,563.64	380.30	22.25	119.18	11,411.72	134.05	11,545.77
Sep	2,402.25	1,136.08	1,713.21	5,492.47	410.13	10.72	94.09	11,258.95	136.52	11,395.47
Oct	2,357.42	1,119.41	1,703.82	5,575.88	353.57	8.79	111.24	11,230.14	141.49	11,371.64
Nov	2,222.45	1,076.54	1,608.67	5,431.63	333.94	11.09	99.46	10,783.78	145.64	10,929.42
Dec	2,159.74	1,066.45	1,657.66	5,247.21	336.20	18.43	101.02	10,586.72	154.96	10,741.68
YTD	27,937.98	13,206.94	19,990.72	64,552.61	4,229.80	267.77	1,303.76	131,489.58	1,623.24	133,112.81

Table 5.2-6M Electricity Consumption for the Whole Country (Classified by Sector) (Cont.)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2008										
Jan	2,164.65	1,064.52	1,670.10	5,309.28	326.99	35.78	116.09	10,687.41	159.02	10,846.43
Feb	2,178.41	1,069.04	1,616.60	5,197.53	330.36	35.29	102.16	10,529.38	153.22	10,682.60
Mar	2,395.06	1,146.19	1,825.95	5,837.08	355.00	43.28	102.92	11,705.47	144.61	11,850.09
Apr	2,688.77	1,208.67	1,793.93	5,151.86	342.60	38.38	106.25	11,330.45	141.34	11,471.79
May	2,546.26	1,193.01	1,820.25	5,741.49	357.16	14.47	118.84	11,791.48	142.59	11,934.06
Jun	2,454.20	1,173.21	1,811.33	5,633.53	400.81	14.90	92.01	11,580.00	141.10	11,721.09
Jul	2,498.38	1,192.18	1,840.26	5,741.52	394.77	26.56	104.10	11,797.77	146.25	11,944.02
Aug	2,522.13	1,208.53	1,879.50	5,641.14	410.60	20.50	150.60	11,833.01	148.30	11,981.30
Sep	2,438.56	1,170.35	1,777.04	5,348.51	426.59	13.86	88.99	11,263.92	146.76	11,410.67
Oct	2,550.14	1,205.97	1,808.66	5,324.44	384.90	11.86	179.06	11,465.03	152.28	11,617.31
Nov	2,235.92	1,086.42	1,657.92	4,884.90	354.22	5.98	137.47	10,362.84	150.08	10,512.93
Dec	2,018.72	1,011.60	1,550.36	4,336.35	307.58	20.60	150.89	9,396.10	151.89	9,547.99
YTD	28,691.22	13,729.70	21,051.91	64,147.63	4,391.56	281.46	1,449.39	133,742.86	1,777.43	135,520.29
2009										
Jan	2,019.32	986.39	1,539.47	4,223.91	299.81	38.06	124.15	9,231.11	157.71	9,388.82
Feb	2,210.10	1,078.51	1,630.29	4,387.59	339.61	44.72	119.22	9,810.05	144.29	9,954.34
Mar	2,689.30	1,267.64	1,872.76	5,090.32	408.38	45.88	118.78	11,493.05	158.16	11,651.21
Apr	2,766.73	1,233.77	1,768.32	4,582.00	347.89	33.13	120.58	10,852.42	151.82	11,004.25
May	2,740.12	1,261.67	1,818.56	5,234.41	390.78	20.17	128.39	11,594.11	154.34	11,748.45
Jun	2,590.73	1,222.87	1,830.19	5,205.72	427.48	18.99	121.73	11,417.72	151.38	11,569.10
Jul	2,609.81	1,226.53	1,841.47	5,337.48	411.85	24.07	143.49	11,594.69	155.27	11,749.97
Aug	2,700.78	1,265.79	1,896.21	5,409.47	436.60	26.00	144.34	11,879.19	159.29	12,038.48
Sep	2,625.49	1,243.44	1,820.72	5,343.85	468.04	16.94	108.62	11,627.10	113.02	11,740.12
Oct	2,601.09	1,225.61	1,834.32	5,563.51	409.07	10.16	140.56	11,784.31	165.26	11,949.57
Nov	2,438.46	1,180.63	1,724.97	5,298.23	385.84	12.21	133.48	11,173.83	164.05	11,337.88
Dec	2,264.57	1,149.45	1,763.96	5,197.04	351.30	27.52	126.32	10,880.15	168.50	11,048.65
YTD	30,256.50	14,342.30	21,341.24	60,873.53	4,676.62	317.86	1,529.67	133,337.73	1,843.11	135,180.83

Electricity

Table 5.2-6M Electricity Consumption for the Whole Country (Classified by Sector) (Cont.)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2010										
Jan	2,427.75	1,188.89	1,799.34	5,250.28	371.12	43.65	178.04	11,259.07	174.14	11,433.21
Feb	2,464.57	1,213.87	1,812.60	5,201.10	391.16	48.48	138.72	11,270.50	159.62	11,430.12
Mar	2,872.62	1,347.54	1,989.99	5,947.93	416.43	55.49	174.67	12,804.67	170.74	12,975.41
Apr	3,134.39	1,381.43	1,940.31	5,315.06	399.27	42.42	168.73	12,381.62	166.10	12,547.72
May	3,304.33	1,451.91	1,963.63	5,934.12	440.15	27.34	189.97	13,311.45	167.30	13,478.76
Jun	3,007.30	1,378.59	1,971.92	5,729.60	476.14	27.45	215.48	12,806.47	161.78	12,968.25
Jul	2,906.59	1,352.32	2,078.71	5,943.46	472.27	30.43	110.06	12,893.83	172.12	13,065.95
Aug	2,761.56	1,296.06	1,943.32	5,804.85	441.20	11.57	202.24	12,460.79	171.05	12,631.84
Sep	2,701.78	1,281.55	1,950.22	5,755.87	464.50	8.52	172.95	12,335.39	159.35	12,494.74
Oct	2,709.98	1,281.78	1,886.98	5,917.09	415.56	9.46	182.53	12,403.39	179.44	12,582.82
Nov	2,436.59	1,187.91	1,807.05	5,634.80	374.05	9.62	202.29	11,652.32	171.35	11,823.67
Dec	2,489.04	1,224.00	1,860.45	5,518.33	387.53	20.87	187.73	11,687.95	180.69	11,868.64
YTD	33,216.49	15,585.85	23,004.54	67,952.49	5,049.39	335.29	2,123.40	147,267.44	2,033.69	149,301.13

Source : MEA, PEA and EGAT

Table 5.3-1M EGAT Fuel Consumption in Power Generation

2006												
Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Diesel	M.Litres	1.0	2.8	8.9	2.7	1.2	0.8	0.4	0.7	1.3	0.3	21.0
Fuel Oil	M.Litres	132.7	304.4	247.8	196.9	207.8	268.6	232.8	142.0	71.9	34.0	1,895.5
Natural Gas	MMSCF	47,027.0	49,073.4	61,561.8	52,000.5	59,402.1	55,763.3	55,972.3	54,132.8	52,993.4	54,239.2	644,702.0
Lignite	1,000 Tons	1,331.8	1,145.7	1,280.5	1,295.9	1,462.7	1,427.6	1,399.9	1,292.7	1,361.4	1,307.2	15,815.4
2007												
Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Diesel	M.Litres	0.6	0.6	0.5	0.8	0.8	0.7	0.4	0.8	0.4	0.7	8.0
Fuel Oil	M.Litres	4.7	25.2	65.1	70.2	48.7	64.2	7.2	102.3	125.7	105.2	780.5
Natural Gas	MMSCF	47,042.8	46,251.4	59,715.4	52,733.4	58,406.6	56,536.9	54,111.4	53,806.3	51,598.1	51,733.1	625,832.6
Lignite	1,000 Tons	1,314.9	1,209.5	1,323.7	1,084.9	1,265.7	1,281.6	1,491.6	1,493.1	1,381.6	1,293.1	15,811.1
2008												
Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Diesel	M.Litres	0.7	0.7	0.9	1.6	0.4	0.6	0.4	0.5	0.5	0.4	7.7
Fuel Oil	M.Litres	1.1	23.0	107.3	82.6	22.2	1.1	0.4	4.3	7.2		249.3
Natural Gas	MMSCF	46,376.6	45,430.7	47,431.0	47,203.7	51,307.7	47,249.4	51,002.5	52,394.2	47,515.2	47,982.3	570,194.4
Lignite	1,000 Tons	1,317.9	1,291.5	1,354.5	1,414.5	1,491.4	1,372.2	1,262.5	1,334.4	1,386.0	1,337.5	16,407.5
2009												
Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Diesel	M.Litres	0.6	0.4	3.2	1.8	2.0	0.4	0.6	0.2	0.9	0.6	12.9
Fuel Oil	M.Litres	8.1				0.4	1.8	0.5	36.8	1.2	44.7	111.0
Natural Gas	MMSCF	34,264.8	40,718.7	48,342.7	47,123.1	49,910.8	48,557.0	46,058.1	49,007.3	50,027.5	52,541.7	562,364.2
Lignite	1,000 Tons	1,461.5	1,144.9	1,255.1	1,313.5	1,370.3	1,463.2	1,451.5	1,304.1	1,243.9	1,287.7	15,818.3
2010												
Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Diesel	M.Litres	0.8	1.0	1.8	1.1	0.8	0.8	2.5	0.5	0.7	0.7	12.4
Fuel Oil	M.Litres	4.1	0.7	39.0	5.1	12.7	6.1	41.0	13.7	9.6	2.0	140.1
Natural Gas	MMSCF	46,907.1	49,609.5	60,629.3	54,999.0	61,699.7	62,726.2	59,237.1	57,000.7	58,308.2	61,853.9	685,938.3
Lignite	1,000 Tons	1,363.2	1,161.7	1,370.2	1,427.2	1,482.3	1,257.5	1,278.1	1,370.7	1,219.7	1,340.6	16,004.2

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.4-1M Import of Electricity

Unit : GWh

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
1986	56.23	48.33	37.14	31.96	43.36	53.23	83.70	0.09	87.15	63.82	53.72	38.97	597.70
1987	35.75	29.89	31.36	28.55	27.48	31.62	17.54	24.46	0.14	46.84	48.70	64.92	387.25
1988	42.98	41.80	29.84	27.20	26.46	31.11	23.65	35.73	27.84	33.39	25.27	18.33	363.61
1989	19.48	17.30	17.43	16.83	20.10	32.86	44.45	54.88	83.36	72.97	59.03	51.85	490.54
1990	60.18	46.72	43.27	30.06	23.14	41.15	53.97	62.17	56.26	65.95	56.41	60.21	599.50
1991	40.98	42.69	41.99	55.24	35.24	40.22	69.66	85.75	56.57	50.27	49.49	25.00	593.11
1992	23.44	35.23	21.03	29.11	34.38	46.55	69.72	75.39	50.58	47.08	27.64	19.73	479.88
1993	22.76	15.83	20.70	24.69	31.91	45.45	77.84	116.29	120.09	82.62	37.28	49.06	644.51
1994	47.31	42.80	47.61	42.14	50.38	60.65	103.99	116.49	120.69	113.87	64.51	60.39	870.82
1995	44.81	46.85	40.29	38.78	39.00	41.04	54.34	93.07	104.83	83.30	57.68	55.13	699.12
1996	40.48	43.77	35.38	33.81	38.92	54.63	64.62	99.19	114.07	113.68	81.43	85.64	805.61
1997	45.76	40.48	32.41	43.66	44.02	42.26	69.28	99.79	104.66	105.17	66.29	51.87	745.63
1998	71.99	102.90	87.18	92.21	101.40	181.12	197.53	151.91	191.39	174.34	130.02	140.71	1,622.71
1999	102.68	63.18	61.91	76.95	177.15	199.06	241.72	258.48	277.66	283.14	262.92	250.83	2,255.66
2000	176.64	137.87	167.36	192.37	294.32	267.33	301.01	320.31	336.51	298.65	246.17	227.72	2,966.26
2001	206.11	158.36	171.13	138.52	205.79	279.94	318.69	316.53	312.74	302.73	257.96	213.27	2,881.76
2002	190.30	149.19	146.50	163.46	221.70	271.79	301.33	313.36	289.41	300.72	241.30	223.12	2,812.18
2003	189.80	140.37	146.97	114.73	174.74	223.71	237.11	259.51	284.30	298.83	221.68	181.65	2,473.41
2004	151.66	182.15	148.30	310.09	216.58	282.33	361.39	382.18	362.98	373.34	352.36	254.50	3,377.85
2005	234.07	193.96	304.44	311.02	282.50	409.15	434.85	489.89	493.78	376.64	440.68	400.93	4,371.89
2006	377.46	366.69	449.86	409.01	294.49	437.64	496.20	511.43	505.99	434.09	478.72	390.29	5,151.85
2007	335.50	278.82	386.01	365.28	400.04	333.76	422.92	335.66	273.48	502.59	435.95	418.37	4,488.36
2008	342.25	170.17	152.48	260.32	167.29	227.36	275.81	271.39	327.00	268.45	183.03	138.02	2,783.57
2009	171.11	106.10	130.43	108.28	147.45	182.69	245.53	275.08	205.88	273.76	336.01	277.76	2,460.09
2010	164.14	143.13	568.33	741.43	791.99	789.05	801.08	768.50	780.25	795.42	486.99	423.47	7,253.78

Source : EGAT
Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.4-2M Export of Electricity

Unit : GWh

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
1986	1.44	1.37	1.57	1.46	1.47	1.43	1.46	1.42	1.43	1.47	1.32	1.38	17.20
1987	1.41	1.34	1.56	1.53	1.56	1.47	1.51	1.50	1.52	1.61	1.52	1.47	18.01
1988	1.56	1.52	1.70	1.65	1.72	1.62	1.76	1.73	1.73	1.63	1.53	1.64	19.80
1989	1.77	1.63	1.89	1.98	2.05	1.95	2.01	2.04	1.99	2.01	1.87	1.91	23.10
1990	2.10	1.98	2.35	3.61	2.39	2.29	2.36	2.44	2.41	2.41	2.25	2.33	28.92
1991	2.58	2.42	3.04	2.98	3.17	3.05	3.17	2.95	3.09	3.02	2.71	2.95	35.13
1992	3.05	3.16	4.11	4.12	3.98	3.41	3.31	3.32	3.33	3.19	3.05	3.34	41.36
1993	3.62	3.28	5.36	4.56	3.79	3.76	4.01	3.79	3.94	3.90	3.80	3.91	47.73
1994	4.15	4.31	5.54	6.14	5.41	4.44	4.47	4.50	4.51	4.53	4.47	4.97	57.44
1995	5.93	6.22	8.48	9.02	7.57	5.83	5.59	5.69	5.55	5.58	5.24	6.13	76.83
1996	7.21	7.06	9.30	8.19	7.12	6.99	7.13	6.91	6.00	6.38	5.92	6.25	84.47
1997	7.41	7.48	10.40	9.26	9.42	7.89	7.64	7.50	7.39	7.40	7.06	9.04	97.88
1998	12.21	11.87	15.46	14.10	12.18	10.31	9.59	9.39	9.15	10.69	9.96	12.68	137.60
1999	17.25	18.09	28.29	20.05	11.22	9.65	10.64	10.75	9.62	9.76	9.15	10.36	164.83
2000	13.75	15.18	19.22	14.82	11.51	10.63	10.88	10.96	9.82	10.45	10.29	12.41	149.92
2001	16.41	16.79	20.48	19.11	14.96	11.57	11.56	11.55	10.98	11.31	10.02	12.78	167.52
2002	16.36	17.79	23.42	21.08	15.96	13.09	12.04	11.91	11.47	11.89	11.36	14.58	180.93
2003	16.43	19.17	24.85	23.10	21.49	15.24	14.91	13.37	12.53	13.33	13.55	17.68	205.65
2004	22.95	23.16	33.08	28.07	30.52	17.08	14.39	14.10	13.73	14.29	17.27	24.40	253.04
2005	35.35	34.36	42.76	42.95	69.57	57.23	33.56	32.48	36.36	35.65	37.04	42.62	499.93
2006	50.87	48.47	55.40	53.06	52.98	46.24	42.03	42.10	43.64	40.35	53.19	57.67	586.01
2007	59.71	51.68	78.82	74.27	59.42	76.20	55.76	53.49	52.72	45.91	49.08	73.80	730.86
2008	74.12	66.39	84.97	87.13	64.49	48.30	54.73	56.12	49.02	51.33	55.79	80.40	772.80
2009	71.37	82.98	109.53	110.55	100.55	74.07	59.06	57.50	67.33	112.80	111.98	122.31	1,080.02
2010	131.87	128.58	131.47	131.32	135.83	121.13	85.34	30.6	34.17	29.32	35.48	46.40	1,041.51

Source : EGAT
Compiled by : Energy Policy and Planning Office (EPPO)



● ● Chapter 6
ENERGY VALUE

● ● บทที่ 6
มูลค่าพลังงาน

Table 6.1-1M Expenditure on Final Energy Consumption

Unit : Million Bahts

2006													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Petroleum Products	76,856	71,128	81,628	78,950	81,471	78,593	78,487	78,506	71,251	70,288	72,163	76,139	915,461
Electricity	26,898	28,789	33,555	31,440	33,259	33,871	33,474	34,089	33,486	32,503	32,652	31,121	385,135
Natural Gas	2,196	1,993	2,361	2,150	2,577	2,475	2,473	2,662	2,472	2,611	2,485	2,426	28,880
Lignite/Coal	1,575	1,599	1,689	1,430	1,376	1,483	1,393	1,336	1,495	1,412	1,365	1,871	18,024
Renewable Energy	9,186	8,981	8,367	7,694	7,560	7,527	7,521	7,534	7,547	7,642	8,517	9,067	97,142
Total	116,710	112,489	127,599	121,664	126,243	123,949	123,347	124,128	116,250	114,455	117,182	120,625	1,444,642
2007													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Petroleum Products	75,082	69,647	79,120	77,528	79,328	78,873	78,823	78,262	76,495	83,748	87,610	90,854	955,370
Electricity	29,877	29,123	34,787	32,875	34,117	34,139	33,349	33,891	33,110	32,807	31,655	30,999	390,731
Natural Gas	2,728	2,402	2,503	2,528	2,835	2,706	2,783	3,174	2,979	3,445	3,421	3,606	35,110
Lignite/Coal	1,913	1,652	3,719	1,965	1,370	1,486	1,703	2,203	1,475	1,683	1,752	2,208	23,128
Renewable Energy	9,595	9,329	8,993	8,204	7,958	7,879	7,882	7,901	7,908	8,001	8,914	9,538	102,103
Total	119,195	112,152	129,122	123,100	125,608	125,083	124,541	125,430	121,967	129,685	133,352	137,206	1,506,442
2008													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Petroleum Products	93,825	87,524	96,686	100,575	104,806	106,379	105,934	95,168	85,665	81,394	66,387	65,406	1,089,748
Electricity	31,388	31,148	34,437	33,984	34,544	33,333	34,007	33,965	32,672	35,168	30,916	28,976	394,538
Natural Gas	3,903	3,812	3,890	3,920	4,255	4,343	5,268	5,442	5,697	5,279	4,327	3,731	53,867
Lignite/Coal	2,083	2,119	2,008	2,212	2,747	2,330	2,479	2,656	2,682	2,501	2,430	2,347	28,594
Renewable Energy	9,810	9,601	9,459	8,406	8,110	7,996	7,982	8,018	7,976	8,010	9,002	9,620	103,991
Total	141,010	134,205	146,479	149,098	154,462	154,381	155,669	145,249	134,693	132,352	113,062	110,080	1,670,738

Energy Value

Table 6.1-1M Expenditure on Final Energy Consumption (Cont.)

Unit : Million Bahts

2009													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Petroleum Products	68,619	64,043	74,638	74,601	79,720	78,840	82,601	85,077	81,951	81,796	86,840	96,988	955,715
Electricity	29,895	31,855	37,427	34,978	36,863	37,143	36,880	37,929	37,512	37,690	36,360	35,077	429,609
Natural Gas	3,398	3,131	3,682	3,426	3,559	3,852	4,066	4,356	4,755	5,081	5,011	4,955	49,272
Lignite/Coal	1,988	1,942	2,253	2,549	2,469	2,651	2,380	2,274	2,505	2,156	2,235	2,418	27,821
Renewable Energy	10,957	10,743	10,053	9,237	8,984	8,889	8,882	8,894	8,880	8,974	10,045	10,729	115,267
Total	114,857	111,714	128,053	124,792	131,595	131,376	134,808	138,531	135,603	135,697	140,491	150,168	1,577,685

2010													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Petroleum Products	92,234	89,677	99,921	93,619	91,535	87,262	89,186	88,666	84,180	88,392	95,024	102,314	1,102,009
Electricity	36,018	36,614	41,321	40,064	42,843	41,510	41,232	39,602	39,501	39,500	37,205	37,322	472,732
Natural Gas	5,261	5,361	6,141	5,387	5,745	5,875	5,821	5,869	5,778	5,610	5,732	6,143	68,724
Lignite/Coal	1,947	2,342	2,493	2,657	2,564	2,496	2,635	2,292	2,663	2,350	2,517	2,084	29,041
Renewable Energy	11,124	10,826	10,240	9,355	9,258	9,144	9,108	9,096	9,062	9,140	10,196	11,024	117,572
Total	146,584	144,820	160,116	151,084	151,945	146,286	147,982	145,525	141,184	144,992	150,673	158,888	1,790,078

Source: PTT, EGAT, DOEB and DEDE
 Compiled by: Energy Policy and Planning Office (EPPO)

Table 6.1-2M Expenditure on Petroleum Products Consumption

Unit : Million Bahts

Energy Type	2006											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gasoline	15,587	13,976	16,331	16,793	17,319	17,117	17,375	16,976	15,221	15,176	15,368	16,176
-Regular	9,433	8,503	9,862	10,096	10,754	10,821	11,084	11,020	9,902	9,868	10,051	10,491
-Premium	6,154	5,473	6,469	6,697	6,565	6,296	6,291	5,956	5,320	5,309	5,317	5,684
Kerosene	44	42	50	43	48	47	50	50	48	47	45	47
Diesel	39,062	37,302	43,709	41,164	43,070	40,360	40,038	39,609	35,711	34,646	36,655	37,624
-HSD	38,945	37,199	43,551	40,950	42,952	40,262	39,881	39,473	35,618	34,570	36,540	37,503
-LSD	117	104	158	214	118	98	157	136	93	76	115	121
J.P.	11,380	10,228	10,889	10,575	10,640	10,210	10,649	10,791	10,167	10,355	10,773	12,198
Fuel Oil	6,480	5,533	6,348	6,174	5,843	6,268	5,604	6,010	5,185	5,011	4,764	5,302
LPG	4,302	4,047	4,301	4,202	4,551	4,590	4,771	5,069	4,918	5,052	4,559	4,792
Total	76,856	71,128	81,628	78,950	81,471	78,593	78,487	78,506	71,251	70,288	72,163	76,139

Energy Type	2007											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gasoline	15,289	14,237	16,714	16,886	17,397	17,774	17,619	17,325	16,607	17,866	17,821	18,931
-Regular	10,047	9,247	11,037	11,192	11,503	11,714	11,566	11,339	10,656	11,330	11,144	11,756
-Premium	5,243	4,990	5,678	5,695	5,893	6,060	6,053	5,986	5,951	6,535	6,677	7,175
Kerosene	42	37	46	36	43	51	42	40	46	53	47	42
Diesel	37,411	34,658	40,565	39,028	39,539	39,851	38,328	39,507	38,133	41,124	44,088	46,669
-HSD	37,310	34,573	40,470	38,953	39,491	39,809	38,266	39,460	38,056	41,040	44,024	46,629
-LSD	101	86	94	75	48	42	62	47	78	83	64	40
J.P.	11,901	11,115	11,710	11,346	11,606	10,613	11,480	11,939	11,373	12,116	13,432	14,111
Fuel Oil	5,116	5,056	5,295	5,328	5,364	5,238	5,636	3,818	4,899	6,726	6,344	4,933
LPG	5,323	4,543	4,790	4,905	5,378	5,346	5,717	5,632	5,437	5,864	5,879	6,168
Total	75,082	69,647	79,120	77,528	79,328	78,873	78,823	78,262	76,495	83,748	87,610	90,854

Energy Type	2008											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gasoline	18,645	17,793	19,239	19,938	20,719	21,596	21,606	19,325	18,004	17,021	13,586	12,879
-Regular	11,645	11,090	12,108	12,605	13,214	13,981	13,926	12,330	11,217	10,544	8,207	7,728
-Premium	7,000	6,702	7,131	7,333	7,505	7,615	7,679	6,994	6,787	6,477	5,379	5,151
Kerosene	50	45	46	53	61	61	55	50	48	45	39	39
Diesel	47,771	44,471	51,729	51,830	55,017	55,587	52,835	45,304	40,187	36,247	30,638	31,195
-HSD	47,732	44,407	51,670	51,787	54,950	55,561	52,832	45,304	40,187	36,247	30,638	31,195
-LSD	40	64	59	44	67	26	3	0	0	0	0	0
J.P.	14,555	13,949	13,822	14,552	15,569	16,272	16,897	15,623	13,783	15,253	12,855	11,987
Fuel Oil	6,332	5,155	5,400	7,949	6,303	5,825	7,008	6,966	6,094	5,202	3,645	3,767
LPG	6,471	6,112	6,450	6,253	7,136	7,037	7,533	7,901	7,549	7,626	5,624	5,539
Total	93,825	87,524	96,686	100,575	104,806	106,379	105,934	95,168	85,665	81,394	66,387	65,406

Energy Value

Table 6.1-2M Expenditure on Petroleum Products Consumption (Cont.)

Unit : Million Bahts

Energy Type	2009												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Gasoline	12,922	13,888	16,600	17,277	18,515	18,506	19,440	20,432	20,131	16,239	19,365	21,518	214,832
- Regular	7,706	8,186	9,634	10,000	10,726	10,768	11,406	11,961	11,505	8,064	11,408	12,681	124,046
- Premium	5,216	5,702	6,966	7,277	7,789	7,737	8,034	8,471	8,627	8,175	7,956	8,837	90,786
Kerosene	39	50	64	45	50	51	50	53	63	63	60	69	657
Diesel	31,105	27,349	32,381	34,424	37,164	36,828	37,629	39,456	36,478	38,329	40,621	46,314	438,079
- HSD	31,105	27,349	32,381	34,424	37,164	36,828	37,629	39,456	36,478	38,329	40,621	46,314	438,079
- LSD	0	0	0	0	0	0	0	0	0	0	0	0	0
J.P.	14,703	13,552	15,037	12,800	12,977	11,967	13,241	13,516	12,909	14,082	14,574	15,540	164,897
Fuel Oil	3,709	3,625	3,668	3,468	4,027	4,384	4,550	4,067	4,911	5,394	4,767	5,531	52,101
LPG	6,141	5,579	6,888	6,588	6,987	7,104	7,691	7,553	7,459	7,689	7,454	8,015	85,148
Total	68,619	64,043	74,638	74,601	79,720	78,840	82,601	85,077	81,951	81,796	86,840	96,988	955,715

Energy Type	2010												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Gasoline	20,402	20,173	21,596	21,328	20,277	20,264	20,863	20,381	19,357	20,176	21,191	23,028	249,036
- Regular	12,040	12,232	13,344	13,142	12,644	12,676	13,019	12,706	12,179	12,688	13,401	14,550	154,621
- Premium	8,362	7,941	8,251	8,186	7,632	7,588	7,844	7,675	7,178	7,488	7,790	8,478	94,415
Kerosene	68	53	56	40	70	43	39	35	40	44	41	43	572
Diesel	43,058	42,407	47,995	45,189	45,625	41,772	42,118	40,262	38,359	40,345	45,633	49,413	522,176
- HSD	43,058	42,407	47,995	45,189	45,625	41,772	42,118	40,262	38,359	40,345	45,633	49,413	522,176
- LSD	-	-	-	-	-	-	-	-	-	-	-	-	-
J.P.	16,187	14,881	16,321	14,395	12,828	12,759	13,675	14,889	13,844	14,979	15,304	16,674	176,736
Fuel Oil	4,654	4,821	5,600	4,765	4,686	4,310	4,548	4,376	4,053	4,176	4,441	4,071	54,500
LPG	7,864	7,342	8,355	7,902	8,050	8,115	7,942	8,722	8,527	8,672	8,413	9,084	98,989
Total	92,234	89,677	99,921	93,619	91,535	87,262	89,186	88,666	84,180	88,392	95,024	102,314	1,102,009

Remarks : Final Energy Consumption
Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-3M Value of Energy Import

Unit : Million Bahts

Energy Type	2006												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	62,076	50,304	68,026	59,984	71,767	64,222	69,022	76,911	64,743	62,568	46,447	57,713	753,783
Pet. Products	5,403	4,862	6,858	7,939	5,732	4,993	6,644	5,325	4,593	4,035	2,223	3,744	62,350
Natural Gas	4,978	5,014	6,762	6,073	7,160	6,963	7,026	7,304	6,901	6,859	6,892	5,911	77,843
Coal	1,251	1,112	1,627	1,260	1,857	1,892	927	1,652	2,033	1,790	1,787	1,708	18,896
Electricity	615	598	702	641	488	715	794	812	820	704	762	643	8,294
Total Import	74,323	61,890	83,975	75,898	87,003	78,785	84,412	92,005	79,090	75,955	58,111	69,718	921,166
Energy Type	2007												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	45,766	55,654	49,338	59,555	57,561	53,726	63,418	72,574	56,986	62,359	65,457	73,396	715,789
Pet. Products	3,391	2,933	2,237	4,700	4,964	4,039	3,932	3,528	4,307	4,904	5,991	3,390	48,317
Natural Gas	6,137	5,844	6,974	5,976	6,873	6,706	6,371	6,617	6,820	7,286	6,979	6,319	78,901
Coal	1,770	1,574	4,652	2,024	2,291	2,402	2,036	3,070	2,463	2,086	2,531	2,757	29,656
Electricity	541	462	645	592	643	563	698	541	431	834	748	717	7,414
Total Import	57,605	66,467	63,846	72,848	72,332	67,435	76,454	86,330	71,008	77,469	81,705	86,579	880,078
Energy Type	2008												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	83,146	82,609	91,595	83,220	99,964	97,248	107,669	116,573	80,313	81,128	37,257	41,945	1,002,667
Pet. Products	3,730	1,051	4,454	7,081	934	2,885	2,260	723	2,954	69	209	394	26,745
Natural Gas	6,184	6,713	7,179	5,384	6,934	6,940	8,463	8,734	8,825	9,542	8,126	7,485	90,506
Coal	2,413	2,992	2,511	3,137	3,898	2,544	3,018	3,283	3,452	3,327	2,608	3,273	36,456
Electricity	582	287	235	449	282	347	431	416	534	439	305	232	4,540
Total Import	96,055	93,652	105,974	99,271	112,012	109,963	121,841	129,729	96,078	94,506	48,504	53,329	1,160,915

Table 6.1-3M Value of Energy Import (Cont.)

Unit : Million Bahts

Energy Type	2009											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Crude Oil	36,462	28,368	49,271	44,718	48,364	60,146	55,053	56,159	64,510	58,875	65,035	56,061
Pet. Products	1,395	2,112	3,457	539	1,423	316	659	264	950	399	812	753
Natural Gas	3,442	7,319	7,278	7,639	8,708	8,554	7,302	8,005	7,613	7,142	6,666	4,539
Coal	2,011	2,451	3,468	3,588	3,364	2,769	3,394	3,267	3,754	4,601	1,816	2,452
Electricity	308	183	228	177	242	292	384	422	396	344	332	315
Total Import	43,619	40,433	63,702	56,662	62,102	72,077	66,792	68,116	77,224	71,361	74,661	64,120
2010												
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Crude Oil	61,323	60,116	58,130	76,338	60,066	63,314	59,100	61,968	56,355	56,070	63,825	74,891
Pet. Products	879	182	3,970	2,588	2,868	3,733	2,679	2,524	2,753	3,705	504	1,567
Natural Gas	6,026	6,990	5,239	7,436	7,968	7,202	8,073	7,469	7,616	7,116	6,403	6,942
Coal	2,702	3,087	3,282	4,953	3,209	2,860	2,643	2,272	3,783	3,579	3,076	3,914
Electricity	223	186	731	931	200	1,013	1,026	1,014	1,111	580	523	421
Total Import	71,154	70,561	71,351	92,246	74,312	78,122	73,521	75,246	71,618	71,049	74,331	87,735
												911,246

Source : PTT, EGAT, DOEB and DEDE
 Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-4M Value of Energy Export

Unit : Million Bahts

Energy Type	2006												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Crude Oil	4,162	5,497	3,978	5,880	3,880	5,097	4,492	6,319	4,395	5,158	4,477	3,501	56,835
Electricity	141	142	163	155	155	141	126	128	132	119	159	170	1,730
Petroleum Products	11,747	10,717	12,728	11,801	12,563	11,062	18,699	18,542	16,022	11,504	13,170	12,371	160,926
Total Export	16,050	16,356	16,868	17,837	16,597	16,299	23,317	24,990	20,549	16,781	17,805	16,042	219,491

Energy Type	2007												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Crude Oil	3,940	3,309	2,526	3,761	3,553	3,352	4,119	3,574	4,328	3,282	5,731	4,339	45,812
Electricity	176	151	229	217	173	219	159	155	150	130	140	207	2,107
Petroleum Products	10,627	8,931	11,289	9,816	16,009	12,242	10,246	12,707	14,505	15,081	18,778	18,845	159,077
Total Export	14,743	12,391	14,043	13,793	19,735	15,813	14,525	16,436	18,983	18,493	24,649	23,391	206,995

Energy Type	2008												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Crude Oil	3,864	3,337	3,459	5,158	9,962	6,071	7,036	4,743	5,216	3,784	2,213	1,731	56,575
Electricity	211	191	242	253	183	136	153	157	139	152	177	258	2,253
Petroleum Products	19,009	16,124	20,536	20,907	27,618	25,109	32,984	32,644	19,107	18,951	13,120	14,274	260,384
Total Export	23,084	19,652	24,238	26,318	37,763	31,316	40,173	37,543	24,462	22,887	15,511	16,264	319,212

Table 6.1-4M Value of Energy Export (Cont.)

Unit : Million Bahts

2009													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	2,356	1,549	1,528	2,298	2,374	1,549	4,211	2,609	1,392	1,960	2,806	2,778	27,410
Electricity	225	261	346	343	310	235	182	178	211	349	347	379	3,365
Petroleum Products	12,770	8,455	10,737	14,032	17,315	22,274	18,479	21,369	19,108	21,846	17,668	21,234	205,286
Total Export	15,351	10,265	12,611	16,673	19,998	24,058	22,871	24,156	20,711	24,155	20,821	24,391	236,061
2010													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	2,661	503	2,701	2,135	2,287	1,830	3,287	2,239	3,115	1,197	2,173	1,980	26,107
Electricity	406	402	410	410	422	377	265	95	106	91	110	144	3,240
Petroleum Products	11,853	12,517	15,746	20,187	18,105	22,101	21,961	22,949	24,654	21,183	20,828	19,781	231,864
Total Export	14,919	13,422	18,857	22,732	20,814	24,307	25,513	25,283	27,875	22,471	23,111	21,906	261,212

Source : PTT, EGAT, DOEB and DEDE
 Compiled by : Energy Policy and Planning Office (EPPO)



APPENDIX

● ● Chapter 7
PETROLEUM PRICES

● ● บทที่ 7
ราคาน้ำมันปิโตรเลียม

Energy
of Thailand

Table 7.1-1M Ex-Refinery Prices of Petroleum Products in Thailand

Unit : Baht/Litre

Ex-Refinery Prices												
	ULG95	UGR91	Gasohol 95			Gasohol 91	Kerosene	HSD	HSD (B5)	LSD	FO 1500	LPG
			(E10)	(E20)	(E85)			0.035% _s			(2%\$)	(B/kg)
2006												
Jan	16.37	16.01	17.59				18.76	17.38		16.81	12.11	12.33
Feb	16.68	16.19	17.11				18.90	17.25		16.75	13.23	12.56
Mar	17.61	17.13	17.98				18.85	18.49		17.93	13.14	12.35
Apr	19.84	19.37	20.41				20.57	20.48		20.00	14.31	12.12
May	21.12	20.64	21.56				20.79	20.78		20.34	13.50	11.94
Jun	20.41	19.93	21.10				21.12	21.38		20.94	12.94	11.71
Jul	20.84	20.38	21.50				21.33	21.25		20.86	13.37	12.04
Aug	19.60	19.13	20.46				21.54	21.03		20.58	14.07	11.94
Sep	16.01	15.55	17.13				19.35	18.57	17.97	18.10	13.35	11.83
Oct	15.08	14.63	16.23				17.84	17.40	17.78	16.95	11.32	11.84
Nov	14.83	14.38	16.11				17.26	16.69	16.93	16.27	10.36	11.59
Dec	15.74	15.32	16.95				17.76	16.32	16.59	15.91	10.36	11.32
AVG	17.84	17.39	18.68				19.51	18.92	17.32	18.45	12.67	11.96
2007												
Jan	14.40	13.96	15.70				16.15	15.57	31.00	15.17	10.20	11.55
Feb	15.39	14.94	16.07			15.64	16.44	16.41	16.80	16.01	10.89	11.70
Mar	17.30	16.86	17.70			17.43	16.90	16.84	17.22	16.39	11.15	11.51
Apr	18.73	18.35	18.91			18.72	18.19	18.25	18.61	17.79	12.33	11.36
May	19.67	19.25	19.76			19.58	18.26	18.42	18.90	17.97	12.24	11.23
Jun	18.84	18.41	19.01			18.82	18.57	18.41	18.29	17.95	12.66	11.15
Jul	18.50	18.08	18.52			18.31	18.86	18.80	18.42	18.35	13.22	10.97
Aug	16.98	16.56	17.16			16.97	18.51	18.44	18.08	17.99	13.10	10.98
Sep	18.12	17.70	18.19			18.00	19.83	20.10	19.53	19.66	13.68	10.95
Oct	19.46	19.04	19.24			19.05	21.19	21.05	20.47	20.62	15.33	11.01
Nov	21.66	21.24	21.22			21.03	24.43	23.32	23.08	22.91	17.07	10.93
Dec	21.29	20.87	20.88			20.70	23.43	23.13	22.88	22.70	16.18	10.90
AVG	18.36	17.94	18.53			18.57	19.23	19.06	20.27	18.63	13.17	11.19
2008												
Jan	21.34	20.93	21.12	20.81		20.94	22.59	22.70	22.57	22.23	15.82	10.90
Feb	21.71	21.20	21.36	21.02		21.18	22.87	23.40	23.93	22.63	15.35	11.08
Mar	22.00	21.61	21.71	21.33		21.54	25.16	25.30	26.22	25.00	15.79	11.00
Apr	23.77	23.37	23.32	22.85		23.15	27.99	28.23	28.54	27.60	17.16	11.00
May	26.58	26.18	25.86	25.05		25.68	32.46	32.44	32.60	31.88	19.36	11.00
Jun	29.61	29.19	28.59	27.48		28.41	34.93	35.44	35.58	34.83	21.25	11.00
Jul	28.85	28.43	27.96	26.97		27.77	35.74	35.76	35.96	35.06	24.17	11.00
Aug	25.04	24.62	24.53	23.92		24.34	29.74	29.00	29.21	28.27	22.50	11.00
Sep	23.47	23.04	23.11	22.67		22.92	26.54	26.33	26.44	25.70	19.98	11.00
Oct	17.75	17.33	18.39	18.92		18.20	19.99	19.13	19.32	18.50	14.09	11.00
Nov	11.24	10.81	12.53	13.72		12.34	16.84	15.93	16.09	15.35	9.02	11.00
Dec	9.43	8.99	10.89	12.26		10.70	13.27	13.57	13.83	12.94	8.41	11.00
AVG	21.73	21.31	21.62	21.42		21.43	25.68	25.60	25.86	25.00	16.91	10.99

Table 7.1-1M Ex-Refinery Prices of Petroleum Products in Thailand (Cont.)

Unit : Baht/Litre

Ex-Refinery Prices												
	ULG95	UGR91	Gasohol 95			Gasohol 91	Kerosene	HSD 0.035% _s	HSD (B5)	LSD	FO 1500 (2% _S)	LPG (B/kg)
			(E10)	(E20)	(E85)							
2009												
Jan	11.85	11.39	12.58	13.21		12.39	13.39	13.50	13.84	12.86	9.29	11.00
Feb	13.29	12.86	13.88	14.37	16.60	13.69	12.09	11.81	12.21	11.15	9.52	11.00
Mar	12.61	12.17	13.27	13.83	16.49	13.08	12.35	12.61	13.05	11.96	9.26	11.00
Apr	13.91	13.48	14.44	14.87	16.69	14.25	13.57	13.82	14.16	13.23	10.66	11.00
May	15.17	14.74	15.71	16.15	18.08	15.52	14.30	14.81	15.27	14.15	12.20	11.00
Jun	16.91	16.49	17.43	17.84	19.62	17.24	16.78	17.20	17.62	16.56	13.85	11.00
Jul	15.90	15.48	16.57	17.15	19.98	16.39	15.85	16.01	16.37	15.40	13.84	11.00
Aug	18.34	17.42	18.83	19.22	20.85	18.20	17.17	17.62	17.92	17.05	14.93	11.00
Sep	17.10	16.18	17.60	18.01	19.74	16.97	16.33	16.77	17.11	16.17	14.57	11.37
Oct	17.00	16.09	17.52	17.94	19.78	16.89	17.04	17.27	17.52	16.75	14.78	11.30
Nov	17.96	17.06	18.85	19.65	23.92	18.22	18.16	18.32	18.58	17.78	15.67	11.16
Dec	17.88	16.97	18.79	19.60	23.97	18.16	17.73	17.75	18.12	17.14	15.57	11.12
AVG	15.66	15.03	16.29	16.82	19.61	15.92	15.40	15.62	15.98	15.02	12.85	11.08
2010												
Jan	19.09	18.18	19.80	20.42	23.54	19.17	18.31	18.37	18.77	17.74	16.13	11.10
Feb	18.48	18.03	18.92	19.27	20.63	18.70	17.49	17.91	18.26	17.30	15.38	11.04
Mar	19.04	18.59	19.34	19.55	19.99	19.12	18.23	18.68	19.04	18.08	15.32	11.08
Apr	19.54	19.09	19.92	20.22	21.27	19.71	19.52	19.85	20.16	19.29	15.78	10.86
May	18.00	17.55	18.68	19.27	22.23	18.46	18.48	18.81	19.15	18.23	15.05	10.79
Jun	17.50	17.05	18.26	18.92	22.38	18.04	18.06	18.37	18.61	17.66	14.39	10.83
Jul	17.25	16.80	17.88	18.43	21.08	17.67	17.72	18.05	18.26	17.37	14.45	10.85
Aug	17.04	16.70	17.87	18.50	21.74	17.65	17.94	18.41	18.63	17.71	14.60	10.80
Sep	16.43	16.01	17.25	17.98	21.90	17.04	17.36	17.72	17.98	16.99	13.81	10.61
Oct	17.29	16.87	18.39	19.40	25.19	18.18	18.10	18.37	18.66	17.61	14.23	10.31
Nov	17.94	17.53	18.97	19.91	25.22	18.76	18.77	19.20	19.60	18.28	14.82	10.02
Dec	19.67	19.26	20.59	21.42	26.01	20.39	19.94	20.54	21.02	19.49	15.37	9.99
AVG	18.11	17.64	18.82	19.44	22.60	18.57	18.33	18.69	19.01	17.98	14.94	10.69

Table 7.1-2M Oil Fund Levied on Petroleum Products in Thailand

Unit : Baht/Litre

(Ex-Refinery)														
	ULG 95	UGR91	Gasohol 95			Gasohol 91	Kerosene	HSD 0.05%\$	HSD 0.035%\$	HSD (B5)	LSD	FO 1500	LPG (B/kg)	LPG (Car) (B/kg)
			(E10)	(E20)	(E85)									
2006	2.70	2.50	0.84			0.84	0.10		1.47	0.41	1.47	0.06	-1.93	-1.93
Jan	2.50	2.30	0.94			0.94	0.10		2.00		2.00	0.06	-2.57	-2.57
Feb	2.50	2.30	0.94			0.94	0.10		2.45		2.45	0.06	-2.35	-2.35
Mar	2.50	2.30	0.94			0.94	0.10		2.50		2.50	0.06	-2.28	-2.28
Apr	2.50	2.30	0.54			0.54	0.10		1.72		1.72	0.06	-2.05	-2.05
May	2.50	2.30	0.54			0.54	0.10		0.95		0.95	0.06	-1.87	-1.87
Jun	2.50	2.30	0.54			0.54	0.10		0.95		0.95	0.06	-2.02	-2.02
Jul	2.50	2.30	0.54			0.54	0.10		0.95		0.95	0.06	-1.97	-1.97
Aug	2.50	2.30	0.54			0.54	0.10		0.95		0.95	0.06	-1.84	-1.84
Sep	2.50	2.30	0.54			0.54	0.10		0.95	0.07	0.950	.06	-1.76	-1.76
Oct	2.99	2.79	1.03			1.03	0.10		1.17	0.30	1.17	0.06	-1.72	-1.72
Nov	3.46	3.26	1.50			1.50	0.10		1.50	0.63	1.50	0.06	-1.52	-1.52
Dec	3.46	3.26	1.50			1.50	0.10		1.50	0.63	1.50	0.06	-1.25	-1.25
2007	3.67	3.37	0.85			0.62	0.10		1.39	0.60	1.39	0.06	-1.02	-1.02
Jan	3.46	3.26	1.50			1.50	0.10		1.50	0.63	1.50	0.06	-1.48	-1.48
Feb	3.46	3.26	1.50			1.50	0.10		1.50	0.54	1.50	0.06	-1.63	-1.63
Mar	3.46	3.26	1.26			1.26	0.10		1.50	0.331	.50	0.06	-1.44	-1.44
Apr	3.46	3.26	1.00			1.00	0.10		1.50	0.30	1.50	0.06	-1.29	-1.29
May	3.46	3.26	0.75			0.75	0.10		1.50	0.30	1.50	0.06	-1.16	-1.16
Jun	3.46	3.26	0.60			0.60	0.10		1.50	0.93	1.50	0.06	-1.08	-1.08
Jul	3.47	3.27	0.60			0.26	0.10		1.50	1.00	1.50	0.06	-0.90	-0.90
Aug	3.83	3.57	0.78			0.28	0.10		1.50	1.00	1.50	0.06	-0.91	-0.91
Sep	4.00	3.70	0.90			0.40	0.10		1.50	1.00	1.50	0.06	-0.89	-0.89
Oct	4.00	3.70	0.70			0.20	0.10		1.50	0.99	1.50	0.06	-0.89	-0.89
Nov	4.00	3.35	0.35			-0.15	0.10		1.03	0.23	1.03	0.06	-0.83	-0.83
Dec	4.00	3.30	0.30			-0.20	0.10		0.70	-0.10	0.70	0.06	0.30	0.30
2008	3.78	3.31	0.77	-0.21		0.28	0.10		0.40	-0.68	0.31	0.06	0.30	0.30
Jan	3.58	2.95	0.22	-0.32		-0.28	0.10		0.36-	0.12	0.36	0.06	0.30	0.30
Feb	3.45	3.00	0.25	-0.30		-0.25	0.10		0.10	-1.02	0.10	0.06	0.30	0.30
Mar	3.45	3.00	0.25	-0.30		-0.25	0.10		-0.15	-1.07	-0.15	0.06	0.30	0.30
Apr	3.45	3.00	0.25	-0.30		-0.25	0.10		-0.30	1.50	-0.30	0.06	0.30	0.30
May	3.45	3.00	0.25	-0.30		-0.25	0.10		-0.30	-1.50	-0.30	0.06	0.30	0.30
Jun	3.45	3.00	0.25	-0.30		-0.25	0.10		-0.30	-1.50	-0.30	0.06	0.30	0.30
Jul	3.45	3.00	0.25	-0.30		-0.25	0.10		-0.30	-1.50	-0.30	0.06	0.30	0.30
Aug	3.54	3.09	0.34	-0.21		0.16	0.10		0.18	1.22	0.18	0.06	0.30	0.30
Sep	3.96	3.66	0.93	0.25		0.43	0.10		0.78	-0.62	0.78	0.06	0.30	0.30
Oct	4.00	4.00	1.58	0.27		1.05	0.10		1.31	-0.20	1.20	0.06	0.30	0.30
Nov	4.00	4.00	2.35	0.15		1.75	0.10		1.70	-0.20	1.20	0.06	0.30	0.30
Dec	5.55	4.00	2.35	-0.80		1.75	0.10		1.70	-0.20	1.20	0.06	0.30	0.30

Table 7.1-2M Oil Fund Levied on Petroleum Products in Thailand (Cont.)

Unit : Baht/Litre

(Ex-Refinery)														
	ULG 95	UGR91	Gasohol 95			Gasohol 91	Kerosene	HSD 0.05%\$	HSD 0.035%\$	HSD (B5)	LSD	FO 1500	LPG (B/kg)	LPG (Car) (B/kg)
			(E10)	(E20)	(E85)									
2009	6.94	5.31	1.78	-0.80	-7.88	1.17	0.10		0.78	-0.95	1.20	0.06	0.22	0.22
Jan	7.00	4.00	2.35	-0.30		1.75	0.10		1.70	-0.20	1.20	0.06	0.30	0.30
Feb	7.00	4.00	-0.49	-2.59	-6.50	-1.09	0.10		0.07	-0.63	1.20	0.06	0.30	0.30
Mar	7.00	5.17	1.91	-0.51	-5.70	1.31	0.10		0.75	-0.20	1.20	0.06	0.30	0.30
Apr	7.00	5.70	2.35	-0.30	-5.70	1.75	0.10		1.70	-0.20	1.20	0.06	0.30	0.30
May	5.93	4.63	1.41	-1.12	-7.91	0.81	0.10		0.59	-1.85	1.20	0.06	0.30	0.30
Jun	5.36	4.06	0.86	-1.57	-7.84	0.10	0.10		-0.01	-2.70	1.20	0.06	0.30	0.30
Jul	6.65	5.35	1.67	-0.94	-7.22	1.07	0.10		1.14	-1.18	1.20	0.06	0.30	0.30
Aug	7.29	5.99	2.27	-0.46	-7.13	1.67	0.10		1.02	-0.57	1.20	0.06	0.30	0.30
Sep	7.50	6.20	2.27	-0.46	-7.76	1.67	0.10		0.84	-1.43	1.20	0.06	-0.07	-0.07
Oct	7.50	6.20	2.27	-0.46	-10.30	1.67	0.10		0.53	-0.81	1.20	0.06	0.00	0.00
Nov	7.50	6.20	2.27	-0.46	-10.30	1.67	0.10		0.53	-0.81	1.20	0.06	0.14	0.14
Dec	7.50	6.20	2.27	-0.46	-10.30	1.67	0.10		0.53	-0.81	1.20	0.06	0.18	0.18
2010	7.50	6.65	2.74	-0.41	-10.93	1.43	0.10		0.66	-0.65	1.20	0.06	0.61	0.61
Jan	7.50	6.20	2.27	-0.46	-10.30	1.67	0.10		0.53	-0.81	1.20	0.06	0.19	0.19
Feb	7.50	6.56	2.65	-0.42	-10.80	1.48	0.10		0.85	-0.80	1.20	0.06	0.26	0.26
Mar	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.85	-0.80	1.20	0.06	0.22	0.22
Apr	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.85	-0.80	1.20	0.06	0.43	0.43
May	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.85	-0.80	1.20	0.06	0.51	0.51
Jun	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.65	-0.50	1.20	0.06	0.47	0.47
Jul	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.65	-0.50	1.20	0.06	0.45	0.45
Aug	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.65	-0.50	1.20	0.06	0.50	0.50
Sep	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.65	-0.50	1.20	0.06	0.69	0.69
Oct	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.65	-0.50	1.20	0.06	0.99	0.99
Nov	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.65	-0.50	1.20	0.06	1.28	1.28
Dec	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.04	-0.74	1.20	0.06	1.31	1.31

Table 7.1-3M Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Products	1. Gasoline				2. Kerosene		3. Diesel		4. Fuel Oil		5. LPG	
	ULG 95	UGR 91	Gasohol 95		Gasohol 91	HSD	B5	LSD	600 (2%S)	1500 (2%S)	(Baht/kg)	
			(E10)	(E20)							(E85)	Large,Small
2006 (MIN)	27.54	26.75				26.87	25.56	25.37	17.22	16.35	16.81	16.81
(WT.AVG)	27.58	26.79				28.42	25.59	25.37	18.11	17.29	16.81	16.81
(MAX)	27.66	26.86				29.25	25.61	25.37	19.27	18.79	16.81	16.81
-Jan (MIN)	26.67	25.92				26.04	24.17	23.88	17.19	16.41	16.81	16.81
(WT.AVG)	26.72	25.92				27.70	24.17	23.88	18.97	17.87	16.81	16.81
(MAX)	26.72	25.92				28.11	24.17	23.88	20.01	19.53	16.81	16.81
-Feb (MIN)	26.51	25.71				26.37	24.42	23.92	17.21	16.38	16.81	16.81
(WT.AVG)	26.51	25.71				27.72	24.42	23.92	18.74	17.63	16.81	16.81
(MAX)	26.51	25.71				28.04	24.42	23.92	20.54	20.06	16.81	16.81
-Mar (MIN)	26.89	26.09				26.16	25.35	24.85	17.30	16.44	16.81	16.81
(WT.AVG)	26.90	26.10				27.51	25.36	24.85	18.47	17.43	16.81	16.81
(MAX)	26.90	26.10				27.96	25.36	24.86	20.32	19.84	16.81	16.81
-Apr (MIN)	27.94	27.14				26.56	26.19	25.69	17.64	16.78	16.81	16.81
(WT.AVG)	28.02	27.22				28.42	26.27	25.71	18.59	17.62	16.81	16.81
(MAX)	28.06	27.26				28.77	26.31	25.81	20.22	19.74	16.81	16.81
-May (MIN)	28.99	28.19				27.40	26.34	25.84	17.73	16.87	16.81	16.81
(WT.AVG)	29.11	28.31				29.17	26.45	25.88	18.61	17.68	16.81	16.81
(MAX)	29.19	28.39				29.64	26.54	26.04	20.08	19.60	16.81	16.81
-Jun (MIN)	29.62	28.82				27.46	27.26	26.79	17.48	16.62	16.81	16.81
(WT.AVG)	29.69	28.89				29.39	27.33	26.83	18.39	17.48	16.81	16.81
(MAX)	29.80	29.00				29.72	27.35	27.00	19.81	19.33	16.81	16.81
-Jul (MIN)	29.97	29.17				27.46	27.73	27.23	17.82	16.69	16.81	16.81
(WT.AVG)	30.07	29.27				29.46	27.79	27.31	18.50	17.66	16.81	16.81
(MAX)	30.11	29.31				30.27	27.82	27.62	19.52	19.04	16.81	16.81
-Aug (MIN)	29.65	28.92				27.86	27.54	27.04	17.90	17.04	16.81	16.81
(WT.AVG)	29.67	28.94				29.79	27.55	27.11	18.43	17.64	16.81	16.81
(MAX)	29.86	29.12				30.65	27.60	27.40	19.18	18.70	16.81	16.81
-Sep (MIN)	26.87	26.07				27.75	26.05	25.55	16.66	15.81	16.81	16.81
(WT.AVG)	26.88	26.08				28.76	26.05	25.58	17.27	16.50	16.81	16.81
(MAX)	27.14	26.34				30.33	26.05	25.70	17.95	17.47	16.81	16.81
-Oct (MIN)	25.64	24.84				27.06	24.19	23.69	16.66	15.81	16.81	16.81
(WT.AVG)	25.64	24.84				27.82	24.19	23.69	17.22	16.44	16.81	16.81
(MAX)	25.72	24.92				29.48	24.19	23.69	17.95	17.47	16.81	16.81
-Nov (MIN)	25.54	24.74				26.39	23.87	23.37	16.63	15.78	16.81	16.81
(WT.AVG)	25.55	24.75				27.68	23.87	23.37	17.19	16.40	16.81	16.81
(MAX)	25.69	24.89				29.03	23.87	23.37	17.92	17.44	16.81	16.81
-Dec (MIN)	26.19	25.39				25.96	23.62	23.12	16.40	15.55	16.81	16.81
(WT.AVG)	26.19	25.39				27.63	23.62	23.12	16.96	17.17	16.81	16.81
(MAX)	26.19	25.39				29.03	23.63	23.12	17.69	17.21	16.81	16.81

Table 7.1-3M Retail Prices of Petroleum Products in Bangkok (Cont.)

Unit : Baht/Litre

Products	1. Gasoline				2. Kerosene		3. Diesel		4. Fuel Oil		5. LPG	
	ULG 95	UGR 91	Gasohol 95		Gasohol 91	HSD	B5	LSD	600 (2%S)	1500 (2%S)	(Baht/kg)	
			(E10)	(E20)							Large, Small	Automobile
			(E85)									(Baht/L)
2007 (MIN)	29.18	28.32	26.17		25.76	26.01	25.66	24.95	18.48	17.66	16.91	16.91
(WT.AVG)	29.18	28.32	26.17		25.76	28.94	25.66	24.95	19.35	18.45	16.91	16.91
(MAX)	29.23	28.35	26.25		25.76	30.50	25.67	24.95	20.67	20.19	16.91	16.91
-Jan (MIN)	25.71	24.91	24.21			25.24	22.76	22.26	16.51	15.66	16.81	16.81
(WT.AVG)	25.71	24.91	24.21			26.96	22.76	22.26	17.01	16.21	16.81	16.81
(MAX)	25.93	25.13	24.43			29.03	22.76	22.26	17.80	17.32	16.81	16.81
-Feb (MIN)	25.63	24.83	23.90		23.39	24.96	23.10	22.60	15.73	14.87	16.81	16.81
(WT.AVG)	25.63	24.83	23.90		23.39	26.82	23.10	22.60	16.99	16.09	16.81	16.81
(MAX)	25.65	24.85	24.10		23.39	29.03	23.10	22.60	18.51	18.03	16.81	16.81
-Mar (MIN)	27.34	26.54	25.12		24.80	24.96	23.62	22.96	16.22	15.36	16.81	16.81
(WT.AVG)	27.34	26.54	25.12		24.80	27.32	23.62	22.96	17.42	16.49	16.81	16.81
(MAX)	27.34	26.54	25.12		24.80	29.07	23.62	22.96	19.00	18.52	16.81	16.81
-Apr (MIN)	28.68	27.88	26.18		25.88	24.96	24.83	24.13	17.33	16.48	16.81	16.81
(WT.AVG)	28.68	27.88	26.18		25.88	27.98	24.83	24.13	18.39	17.42	16.81	16.81
(MAX)	28.68	27.88	26.18		25.88	29.39	24.83	24.13	20.11	19.63	16.81	16.81
-May (MIN)	29.99	29.19	26.86		26.56	24.96	25.34	24.64	17.76	16.91	16.81	16.81
(WT.AVG)	29.99	29.19	26.86		26.56	28.10	25.34	24.64	18.75	17.76	16.81	16.81
(MAX)	29.99	29.19	26.86		26.56	29.57	25.34	24.64	20.54	20.06	16.81	16.81
-Jun (MIN)	30.00	29.20	26.70		26.40	24.96	25.34	24.64	17.92	17.07	16.81	16.81
(WT.AVG)	30.01	29.21	26.71		26.40	28.20	25.34	24.64	18.91	17.92	16.81	16.81
(MAX)	30.10	29.30	27.09		26.40	29.91	25.34	24.64	20.70	20.22	16.81	16.81
-Jul (MIN)	29.85	29.05	26.39		25.75	25.28	25.61	24.91	18.37	17.60	16.81	16.81
(WT.AVG)	29.85	29.05	26.39		25.75	29.00	25.61	24.91	19.39	18.41	16.81	16.81
(MAX)	29.85	29.05	26.46		25.75	30.55	25.61	24.91	21.15	20.67	16.81	16.81
-Aug (MIN)	28.53	27.73	25.03		24.23	25.36	25.44	24.74	18.49	17.65	16.81	16.81
(WT.AVG)	28.53	27.73	25.03		24.23	29.04	25.44	24.74	19.53	18.55	16.81	16.81
(MAX)	28.53	27.73	25.03		24.23	30.65	25.44	24.74	21.28	20.80	16.81	16.81
-Sep (MIN)	29.39	28.59	25.89		25.09	26.03	26.58	25.88	18.55	17.70	16.81	16.81
(WT.AVG)	29.39	28.59	25.89		25.09	29.43	26.58	25.88	19.57	18.63	16.81	16.81
(MAX)	29.39	28.59	25.89		25.09	30.94	26.58	25.88	21.18	20.70	16.81	16.81
-Oct (MIN)	30.31	29.51	26.81		26.01	26.88	27.47	26.76	19.90	19.04	16.81	16.81
(WT.AVG)	30.31	29.51	26.81		26.01	30.27	27.47	26.76	20.43	19.61	16.81	16.81
(MAX)	30.31	29.51	26.81		26.01	31.50	27.47	26.76	21.28	20.80	16.81	16.81
-Nov (MIN)	32.07	31.03	28.33		27.45	28.75	28.78	27.78	22.49	21.91	16.81	16.81
(WT.AVG)	32.08	31.04	28.34		27.45	31.97	28.80	27.78	22.99	22.24	16.81	16.81
(MAX)	32.14	31.09	28.37		27.45	33.07	28.84	27.78	23.40	22.92	16.81	16.81
-Dec (MIN)	32.62	31.32	28.62		27.82	29.74	29.07	28.07	22.50	21.72	18.01	18.01
(WT.AVG)	32.67	31.32	28.62		27.82	32.17	29.07	28.07	22.79	22.05	18.01	18.01
(MAX)	32.79	31.32	28.62		27.82	33.34	29.07	28.07	23.14	22.66	18.01	18.01

Table 7.1-3M Retail Prices of Petroleum Products in Bangkok (Cont.)

Unit : Baht/Litre

Products	1. Gasoline				2. Kerosene		3. Diesel		4. Fuel Oil		5. LPG	
	ULG 95	UGR 91	Gasohol 95		Gasohol 91	HSD	B5	LSD	600 (2%S)	1500 (2%S)	(Baht/kg)	
			(E10)	(E20)							Large Small	Automobile Automobile
2008 (MIN)	34.86	33.40	28.95	27.36	28.15	31.15	30.34	33.20	22.53	21.06	18.13	18.13
(WT.AVG)	35.33	33.43	28.97	27.37	28.16	31.26	30.39	33.20	24.30	22.90	18.13	18.13
(MAX)	35.89	33.45	29.02	27.37	28.20	31.34	30.50	33.20	27.12	26.11	18.13	18.13
-Jan (MIN)	33.17	31.88	29.17	27.47	28.37	29.43	28.44	29.06	20.35	19.78	18.02	18.02
(WT.AVG)	33.17	31.88	29.17	27.47	28.37	29.43	28.44	29.06	21.61	20.87	18.02	18.02
(MAX)	33.17	31.88	29.17	27.47	28.37	29.43	28.44	29.06	22.79	22.37	18.02	18.02
-Feb (MIN)	32.94	31.84	28.94	26.94	28.14	29.29	28.79	29.20	20.37	19.30	18.21	18.21
(WT.AVG)	32.94	31.84	28.94	26.94	28.14	29.29	28.79	29.20	21.64	20.61	18.21	18.21
(MAX)	32.94	31.84	28.94	26.94	28.14	29.29	28.79	29.20	22.81	22.33	18.21	18.21
-Mar (MIN)	34.01	32.91	30.01	28.01	29.21	30.42	29.82	30.56	21.35	20.28	18.13	18.13
(WT.AVG)	34.05	32.94	30.03	28.01	29.21	30.62	29.89	30.56	22.52	21.48	18.13	18.13
(MAX)	34.15	32.96	30.06	28.01	29.26	30.75	29.96	30.56	23.61	23.13	18.13	18.13
-Apr (MIN)	35.31	34.21	31.31	29.31	30.51	31.99	31.29	32.30	22.16	21.01	18.13	18.13
(WT.AVG)	35.40	34.27	31.36	29.31	30.52	32.32	31.36	32.30	23.36	22.26	18.13	18.13
(MAX)	35.42	34.32	31.42	29.31	30.62	32.49	31.57	32.30	24.53	23.97	18.13	18.13
-May (MIN)	38.18	37.10	34.18	32.18	33.38	35.33	34.63	36.13	23.46	21.97	18.13	18.13
(WT.AVG)	38.26	37.12	34.19	32.18	33.38	35.72	34.75	36.13	25.11	23.58	18.13	18.13
(MAX)	39.01	37.15	34.25	32.18	33.43	36.02	35.32	36.13	26.83	25.92	18.13	18.13
-Jun (MIN)	41.43	40.33	36.73	35.15	35.93	40.86	40.16	41.52	25.41	23.62	18.13	18.13
(WT.AVG)	41.64	40.40	36.80	35.17	35.97	41.02	40.29	41.52	27.09	25.28	18.13	18.13
(MAX)	42.34	40.51	37.07	35.19	36.11	41.19	40.46	41.52	28.79	27.63	18.13	18.13
-Jul (MIN)	42.04	40.83	36.35	35.05	35.55	42.40	41.72	43.68	28.99	27.06	18.13	18.13
(WT.AVG)	42.69	40.90	36.41	35.10	35.61	42.57	41.90	43.68	30.49	28.46	18.13	18.13
(MAX)	43.35	40.98	36.50	35.16	35.70	42.69	42.01	43.68	32.55	31.22	18.13	18.13
-Aug (MIN)	38.24	36.84	29.34	28.04	28.54	34.37	33.68	37.48	28.26	26.39	18.13	18.13
(WT.AVG)	38.62	36.84	29.34	28.04	28.54	34.37	33.68	37.48	29.57	27.52	18.13	18.13
(MAX)	39.44	36.85	29.35	28.04	28.55	34.40	33.71	37.48	31.42	30.08	18.13	18.13
-Sep (MIN)	37.30	35.82	28.32	27.02	27.52	31.65	30.95	34.86	27.67	26.00	18.13	18.13
(WT.AVG)	37.84	35.87	28.35	27.02	27.54	31.70	30.99	34.86	28.60	26.83	18.13	18.13
(MAX)	38.51	35.92	28.42	27.02	27.62	31.75	31.05	34.86	29.99	28.65	18.13	18.13
-Oct (MIN)	33.90	31.90	25.39	24.25	24.59	26.22	25.45	29.48	22.66	20.98	18.13	18.13
(WT.AVG)	34.42	31.90	25.39	24.25	24.59	26.22	25.45	29.48	24.42	22.95	18.13	18.13
(MAX)	35.16	31.90	25.39	24.25	24.59	26.22	25.45	29.48	27.51	26.18	18.13	18.13
-Nov (MIN)	27.91	25.60	20.64	19.26	19.84	22.22	21.02	27.04	15.50	13.79	18.13	18.13
(WT.AVG)	28.68	25.60	20.64	19.26	19.84	22.22	21.02	27.04	19.11	17.93	18.13	18.13
(MAX)	29.44	25.60	20.64	19.26	19.84	22.22	21.02	27.04	27.28	25.90	18.13	18.13
-Dec (MIN)	23.92	21.54	17.00	15.65	16.17	19.67	18.17	27.04	14.22	12.51	18.13	18.13
(WT.AVG)	26.28	21.54	17.00	15.65	16.17	19.67	18.17	27.04	18.10	16.99	18.13	18.13
(MAX)	27.76	21.54	17.00	15.65	16.17	19.67	18.17	27.04	27.28	25.90	18.13	18.13

Table 7.1-3M Retail Prices of Petroleum Products in Bangkok (Cont.)

Unit : Baht/Litre

Products	1. Gasoline				2. Kerosene		3. Diesel		4. Fuel Oil		5. LPG	
	ULG 95	UGR 91	Gasohol 95		Gasohol 91	HSD	B5	LSD	600 (2%S)	1500 (2%S)	Large,Small	(Baht/kg) Automobile
			(E10)	(E20)								
2009 (MIN)	37.23	31.32	27.49	25.39	18.77	26.65	26.20	24.75	22.71	18.10	16.39	18.13
(WT.AVG)	37.47	31.34	27.50	25.39	18.87	26.69	37.21	24.77	22.71	21.18	19.83	18.13
(MAX)	38.29	31.36	27.53	25.39	18.96	26.74	39.88	24.79	22.73	27.28	25.90	18.13
-Jan (MIN)	29.28	21.99	17.44	16.14	15.97	16.64	25.76	18.61	17.11	14.22	12.51	18.13
(WT.AVG)	30.00	22.07	17.53	16.16	17.13	16.70	37.11	18.63	17.14	18.10	16.99	18.13
(MAX)	30.59	22.24	17.69	16.18	18.29	16.89	39.88	18.73	17.23	27.28	25.90	18.13
-Feb (MIN)	33.85	26.23	21.70	20.40	14.69	20.58	25.76	19.59	18.09	14.34	12.63	18.13
(WT.AVG)	34.41	26.24	21.71	20.40	14.69	20.89	37.16	19.59	18.09	18.19	17.08	18.13
(MAX)	34.85	26.25	21.73	20.40	14.69	20.93	39.88	19.59	18.09	27.28	25.90	18.13
-Mar (MIN)	34.22	27.34	23.38	21.53	15.48	22.58	25.76	20.78	18.45	14.39	12.68	18.13
(WT.AVG)	34.44	27.36	23.39	21.53	15.48	22.58	37.16	20.99	18.48	18.24	17.12	18.13
(MAX)	35.84	27.41	23.45	21.53	15.48	22.65	39.88	21.07	18.50	27.28	25.90	18.13
-Apr (MIN)	36.05	29.45	25.65	23.35	19.95	24.85	25.76	23.05	20.05	15.29	13.58	18.13
(WT.AVG)	36.20	29.45	25.65	23.35	19.95	24.85	37.16	23.05	20.05	17.78	17.08	18.13
(MAX)	37.23	29.45	25.65	23.35	19.95	24.85	39.88	23.05	20.05	27.28	25.90	18.13
-May (MIN)	37.26	30.64	26.84	24.54	18.33	25.93	25.76	23.82	20.82	16.65	14.94	18.13
(WT.AVG)	37.40	30.66	26.86	24.54	18.33	26.02	37.16	23.84	20.84	20.03	18.77	18.13
(MAX)	38.26	30.66	26.86	24.54	18.33	26.06	39.88	23.84	20.84	27.28	25.90	18.13
-Jun (MIN)	38.82	32.72	28.92	26.62	19.62	28.12	25.76	26.68	23.81	18.88	17.17	18.13
(WT.AVG)	38.93	32.72	28.92	26.62	19.62	28.12	37.16	26.68	23.81	21.80	20.40	18.13
(MAX)	39.94	32.72	28.92	26.62	19.62	28.12	39.88	26.68	23.83	27.28	25.90	18.13
-Jul (MIN)	38.30	33.00	29.39	27.09	20.63	28.59	25.76	26.96	24.16	19.48	17.77	18.13
(WT.AVG)	38.46	33.00	29.39	27.09	20.63	28.59	37.16	26.96	24.16	22.27	20.84	18.13
(MAX)	39.17	33.00	29.39	27.09	20.63	28.59	39.88	26.96	24.16	27.28	25.90	18.13
-Aug (MIN)	40.20	35.38	31.78	29.48	22.49	30.98	26.43	28.17	26.30	20.64	18.93	18.13
(WT.AVG)	40.39	35.40	31.80	29.48	22.49	30.99	37.24	28.18	26.31	23.19	21.68	18.13
(MAX)	41.20	35.43	31.83	29.48	22.49	31.03	39.88	28.19	26.35	27.28	25.90	18.13
-Sep (MIN)	39.50	34.70	31.10	28.78	21.92	30.30	26.56	26.83	25.40	20.27	18.56	18.13
(WT.AVG)	39.68	34.70	31.10	28.78	21.92	30.33	37.25	26.83	25.40	22.90	21.42	18.13
(MAX)	40.50	34.70	31.10	28.78	21.92	30.38	39.88	26.83	25.40	27.28	25.90	18.13
-Oct (MIN)	38.91	34.08	30.48	28.18	18.72	29.68	26.75	26.66	25.26	20.43	18.72	18.13
(WT.AVG)	39.08	34.08	30.48	28.18	18.72	29.68	37.28	26.67	25.26	23.02	21.53	18.13
(MAX)	39.88	34.08	30.48	28.18	18.72	29.68	39.88	26.69	25.29	27.28	25.90	18.13
-Nov (MIN)	40.34	35.34	31.74	29.44	18.72	30.94	27.16	28.19	26.79	21.29	19.58	18.13
(WT.AVG)	40.48	35.34	31.74	29.44	18.72	30.94	37.33	28.19	26.79	23.71	22.16	18.13
(MAX)	41.14	35.34	31.74	29.44	18.72	30.94	39.88	28.19	26.79	27.28	25.90	18.13
-Dec (MIN)	40.02	35.02	31.42	29.12	18.72	30.62	27.16	27.63	26.23	21.28	19.57	18.13
(WT.AVG)	40.16	35.03	31.42	29.12	18.72	30.63	37.33	27.63	26.23	23.70	22.15	18.13
(MAX)	40.82	35.07	31.47	29.12	18.72	30.74	39.88	27.67	26.27	27.28	25.90	18.13

Table 7.1-3M Retail Prices of Petroleum Products in Bangkok (Cont.)

Unit : Baht/Litre

Products	1. Gasoline				2. Kerosene		3. Diesel		4. Fuel Oil		5. LPG	
	ULG 95	UGR 91	Gasohol 95		Gasohol 91	HSD	B5	LSD	600 (2%S)	1500 (2%S)	(Baht/kg)	
			(E10)	(E85)							Large, Small	Automobile
2010 (MIN)	41.12	36.08	32.30	29.96	19.21	30.84	28.68	27.50	21.06	19.35	18.13	18.13
(WT.AVG)	41.26	36.10	32.35	29.96	19.21	30.85	28.69	27.55	21.06	19.35	18.13	18.13
(MAX)	41.90	36.13	32.40	29.96	19.21	30.90	28.72	27.58	21.06	19.35	18.13	18.13
-Jan (MIN)	40.92	35.92	32.32	30.02	18.72	31.52	27.16	26.75	21.86	20.15	18.13	18.13
(WT.AVG)	41.06	35.92	32.32	30.02	18.72	31.52	27.16	26.75	21.86	20.15	18.13	18.13
(MAX)	41.72	35.92	32.34	30.02	18.72	31.54	27.16	26.75	21.86	20.15	18.13	18.13
-Feb (MIN)	41.38	36.38	32.78	30.48	18.72	31.44	27.59	26.73	21.12	19.41	18.13	18.13
(WT.AVG)	41.51	36.38	32.78	30.48	18.72	31.47	27.59	26.73	21.12	19.41	18.13	18.13
(MAX)	42.14	36.38	32.78	30.48	18.72	31.48	27.59	26.73	21.12	19.41	18.13	18.13
-Mar (MIN)	42.15	37.15	33.55	31.25	19.07	32.05	28.01	27.74	21.21	19.50	18.13	18.13
(WT.AVG)	42.29	37.15	33.55	31.25	19.07	32.05	28.01	27.74	21.21	19.50	18.13	18.13
(MAX)	42.89	37.15	33.55	31.25	19.07	32.05	28.01	27.74	21.21	19.50	18.13	18.13
-Apr (MIN)	42.59	37.53	33.87	31.57	20.07	32.37	29.01	28.44	21.47	19.76	18.13	18.13
(WT.AVG)	42.72	37.56	33.90	31.57	20.07	32.39	29.01	28.44	21.47	19.76	18.13	18.13
(MAX)	43.37	37.61	33.95	31.57	20.07	32.45	29.01	28.44	21.47	19.76	18.13	18.13
-May (MIN)	41.40	36.40	32.60	30.30	20.06	31.10	28.73	28.00	21.32	19.60	18.13	18.13
(WT.AVG)	41.51	36.40	32.60	30.30	20.06	31.10	28.73	28.00	21.32	19.60	18.13	18.13
(MAX)	42.20	36.40	32.60	30.30	20.06	31.10	28.73	28.00	21.32	19.60	18.13	18.13
-Jun (MIN)	40.46	35.42	31.24	29.32	19.42	30.12	28.24	26.79	20.34	18.63	18.13	18.13
(WT.AVG)	40.57	35.44	31.58	29.34	19.42	30.14	28.24	26.79	20.34	18.63	18.13	18.13
(MAX)	41.26	35.46	31.66	29.36	19.42	30.16	28.24	26.79	20.34	18.63	18.13	18.13
-Jul (MIN)	40.37	35.37	31.49	29.27	19.11	30.07	28.19	27.04	20.51	18.80	18.13	18.13
(WT.AVG)	40.52	35.37	31.56	29.27	19.11	30.07	28.19	27.04	20.51	18.80	18.13	18.13
(MAX)	41.17	35.37	31.59	29.27	19.11	30.09	28.19	27.04	20.51	18.80	18.13	18.13
-Aug (MIN)	40.52	35.52	31.72	29.42	19.01	30.22	28.65	27.38	20.86	19.14	18.13	18.13
(WT.AVG)	40.68	35.52	31.72	29.42	19.01	30.22	28.65	27.38	20.86	19.14	18.13	18.13
(MAX)	41.32	35.52	31.72	29.42	19.01	30.22	28.65	27.38	20.86	19.14	18.13	18.13
-Sep (MIN)	39.44	34.44	30.64	28.34	18.42	29.14	28.46	27.79	20.22	18.51	18.13	18.13
(WT.AVG)	39.60	34.44	30.64	28.34	18.42	29.14	28.46	27.79	20.22	18.51	18.13	18.13
(MAX)	40.24	34.44	30.64	28.34	18.42	29.14	28.46	27.79	20.22	18.51	18.13	18.13
-Oct (MIN)	40.38	35.33	31.53	29.23	18.87	30.03	29.23	28.56	20.68	18.96	18.13	18.13
(WT.AVG)	40.54	35.35	31.57	29.23	18.87	30.05	29.23	28.56	20.68	18.96	18.13	18.13
(MAX)	41.19	35.40	31.64	29.23	18.87	30.14	29.23	28.56	20.68	18.96	18.13	18.13
-Nov (MIN)	41.21	36.06	32.26	29.96	19.23	30.76	29.93	28.06	21.25	19.54	18.13	18.13
(WT.AVG)	41.34	36.09	32.31	29.96	19.23	30.79	29.93	28.06	21.25	19.54	18.13	18.13
(MAX)	41.89	36.21	32.47	29.96	19.23	30.97	29.93	28.06	21.25	19.54	18.13	18.13
-Dec (MIN)	42.60	37.45	33.63	30.30	19.82	31.20	30.98	29.14	21.85	20.14	18.13	18.13
(WT.AVG)	42.75	37.56	33.70	30.30	19.82	31.23	30.98	29.14	21.85	20.14	18.13	18.13
(MAX)	43.39	37.68	33.84	30.30	19.82	31.50	30.98	29.14	21.85	20.14	18.13	18.13



APPENDIX

● ● Chapter 8

AIR POLLUTION EMISSION IN THE ENERGY SECTOR

● ● บทที่ 8

การปล่อยมลพิษทางอากาศ
ในภาคพลังงาน

Table 8.1-1M CO₂ Emission by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2006				
Jan	7,468	3,976	4,226	15,670
Feb	7,331	3,885	4,016	15,232
Mar	8,099	4,242	4,862	17,203
Apr	7,433	3,685	4,344	15,462
May	7,637	4,212	4,854	16,703
Jun	7,377	4,098	4,630	16,105
Jul	7,184	4,179	4,726	16,089
Aug	7,063	4,443	4,729	16,235
Sep	6,629	4,480	4,565	15,674
Oct	6,756	4,626	4,658	16,040
Nov	6,993	4,562	4,636	16,190
Dec	7,240	4,924	4,367	16,531
YTD	87,210	51,313	54,613	193,136
2007				
Jan	7,212	5,108	4,503	16,823
Feb	6,709	4,557	4,274	15,540
Mar	7,584	4,858	5,172	17,614
Apr	7,072	4,938	4,697	16,706
May	7,024	4,461	5,113	16,598
Jun	7,096	4,509	5,062	16,667
Jul	6,797	4,978	5,023	16,798
Aug	7,063	5,448	5,079	17,590
Sep	6,759	4,572	4,865	16,196
Oct	7,111	4,831	5,016	16,958
Nov	6,939	4,592	4,767	16,299
Dec	7,213	4,777	4,661	16,651
YTD	84,577	57,629	58,232	200,439
2008				
Jan	7,090	5,435	4,831	17,355
Feb	6,576	5,182	4,737	16,495
Mar	7,264	5,420	5,249	17,933
Apr	7,119	5,518	4,901	17,537
May	6,740	5,479	5,580	17,800
Jun	6,085	5,315	5,400	16,800
Jul	5,904	5,142	5,745	16,790
Aug	6,165	5,101	5,720	16,987
Sep	5,928	5,243	5,395	16,566
Oct	6,336	5,185	5,541	17,062
Nov	6,218	4,694	4,930	15,842
Dec	6,979	4,440	4,594	16,013
YTD	78,403	62,154	62,624	203,181

Table 8.1-1M CO₂ Emission by Energy Type (Cont.)

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2009				
Jan	7,202	4,979	4,384	16,565
Feb	6,169	4,503	4,804	15,477
Mar	6,936	4,966	5,637	17,539
Apr	6,685	5,615	5,204	17,505
May	6,981	5,440	5,688	18,110
Jun	6,372	5,801	5,680	17,853
Jul	6,520	5,634	5,629	17,783
Aug	6,455	5,249	5,787	17,491
Sep	6,258	5,297	5,831	17,387
Oct	6,652	4,734	6,031	17,418
Nov	6,457	4,933	5,772	17,162
Dec	7,339	5,252	5,597	18,188
YTD	80,027	62,404	66,045	208,476
2010				
Jan	6,765	5,083	5,655	17,504
Feb	6,638	5,100	5,764	17,502
Mar	7,269	5,714	6,382	19,365
Apr	6,689	5,612	6,139	18,439
May	6,804	5,659	6,659	19,122
Jun	6,618	5,419	6,629	18,666
Jul	6,790	5,259	6,494	18,543
Aug	6,490	5,329	6,437	18,255
Sep	6,340	5,162	6,458	17,961
Oct	6,456	5,194	6,560	18,210
Nov	6,890	5,330	6,284	18,503
Dec	7,206	4,995	6,372	18,573
YTD	80,956	63,856	75,833	220,644
Growth Rate (%)				
2007	-3.0	12.3	6.6	3.8
2008	-7.3	7.9	7.5	1.4
2009	2.1	0.4	5.5	2.6
2010	1.2	2.3	14.8	5.8

Notes: 1. CO₂ Emission Factors Reference from IPCC2006
 2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 8.1-2M CO₂ Emission from Energy Consumption by Sector

Unit : 1,000 Tons

	Power Generation	Transport	Industry	Other	Total
2006					
Jan	6,161	4,728	3,399	1,382	15,670
Feb	5,857	4,420	3,654	1,301	15,232
Mar	6,841	5,013	3,894	1,454	17,203
Apr	6,267	4,628	3,233	1,334	15,462
May	7,152	4,767	3,376	1,408	16,703
Jun	6,877	4,424	3,489	1,314	16,105
Jul	7,028	4,389	3,358	1,314	16,089
Aug	7,204	4,395	3,299	1,338	16,235
Sep	6,976	4,241	3,186	1,272	15,674
Oct	7,083	4,419	3,225	1,313	16,040
Nov	7,035	4,629	3,160	1,366	16,190
Dec	6,547	4,778	3,783	1,423	16,531
YTD	81,028	54,831	41,057	16,220	193,136
2007					
Jan	6,670	4,784	3,903	1,466	16,823
Feb	6,303	4,400	3,495	1,341	15,540
Mar	7,338	4,986	3,788	1,502	17,614
Apr	6,612	4,637	4,073	1,385	16,706
May	7,328	4,615	3,249	1,407	16,598
Jun	7,450	4,675	3,134	1,408	16,667
Jul	7,407	4,520	3,490	1,380	16,798
Aug	7,246	4,694	4,202	1,448	17,590
Sep	7,256	4,370	3,226	1,344	16,196
Oct	7,261	4,559	3,724	1,414	16,958
Nov	6,710	4,557	3,586	1,446	16,299
Dec	6,499	4,774	3,902	1,476	16,651
YTD	84,080	55,571	43,770	17,017	200,439
2008					
Jan	6,996	4,735	4,073	1,552	17,355
Feb	6,730	4,415	3,915	1,436	16,495
Mar	7,410	4,808	4,143	1,572	17,933
Apr	7,169	4,629	4,230	1,509	17,537
May	7,678	4,489	4,130	1,503	17,800
Jun	7,221	4,073	4,134	1,372	16,800
Jul	7,323	3,889	4,228	1,351	16,790
Aug	7,435	4,103	4,058	1,390	16,987
Sep	7,226	3,973	4,019	1,348	16,566
Oct	7,406	4,305	3,917	1,434	17,062
Nov	6,542	4,266	3,626	1,409	15,842
Dec	6,089	4,840	3,522	1,562	16,013
YTD	85,226	52,524	47,993	17,438	203,181

Table 8.1-2M CO₂ Emission from Energy Consumption by Sector (Cont.)

Unit : 1,000 Tons

	Power Generation	Transport	Industry	Other	Total
2009					
Jan	6,275	5,012	3,657	1,621	16,565
Feb	6,222	4,291	3,579	1,385	15,477
Mar	7,265	4,882	3,844	1,548	17,539
Apr	7,024	4,699	4,284	1,497	17,505
May	7,392	4,906	4,248	1,563	18,110
Jun	7,465	4,449	4,490	1,449	17,853
Jul	7,445	4,560	4,289	1,489	17,783
Aug	7,283	4,510	4,218	1,480	17,491
Sep	7,279	4,349	4,316	1,443	17,387
Oct	7,262	4,573	4,069	1,513	17,418
Nov	6,866	4,512	4,294	1,490	17,162
Dec	6,750	5,127	4,633	1,678	18,188
YTD	84,527	55,871	49,921	18,157	208,476
2010					
Jan	7,244	4,742	3,947	1,571	17,504
Feb	6,958	4,664	4,358	1,522	17,502
Mar	7,855	5,054	4,794	1,662	19,365
Apr	7,688	4,700	4,512	1,539	18,439
May	8,178	4,782	4,588	1,574	19,122
Jun	7,781	4,684	4,664	1,537	18,666
Jul	7,555	4,747	4,664	1,577	18,543
Aug	7,700	4,569	4,464	1,521	18,255
Sep	7,406	4,495	4,572	1,488	17,961
Oct	7,754	4,589	4,344	1,523	18,210
Nov	7,319	4,899	4,672	1,613	18,503
Dec	7,353	5,145	4,380	1,696	18,573
YTD	90,792	57,070	53,960	18,823	220,644
Growth Rate (%)					
2007	3.8	1.4	6.6	4.9	3.8
2008	1.4	-5.5	9.7	2.5	1.4
2009	-0.8	6.4	4.0	4.1	2.6
2010	7.4	2.2	8.1	3.7	5.8

Notes: 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 8.1-3M CO₂ Emission in Power Generation by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2006				
Jan	536	1,925	3,700	6,161
Feb	667	1,649	3,541	5,857
Mar	661	1,857	4,322	6,841
Apr	591	1,818	3,858	6,267
May	582	2,286	4,284	7,152
Jun	676	2,110	4,092	6,877
Jul	594	2,258	4,177	7,028
Aug	522	2,542	4,140	7,204
Sep	419	2,546	4,011	6,976
Oct	369	2,662	4,053	7,083
Nov	351	2,658	4,026	7,035
Dec	364	2,411	3,771	6,547
YTD	6,331	26,723	47,975	81,028
2007				
Jan	225	2,646	3,800	6,670
Feb	237	2,422	3,644	6,303
Mar	270	2,553	4,515	7,338
Apr	263	2,303	4,047	6,612
May	245	2,669	4,413	7,328
Jun	249	2,795	4,406	7,450
Jul	209	2,843	4,355	7,407
Aug	217	2,684	4,344	7,246
Sep	271	2,804	4,182	7,256
Oct	302	2,718	4,240	7,261
Nov	230	2,471	4,008	6,710
Dec	234	2,368	3,898	6,499
YTD	2,952	31,276	49,852	84,080
2008				
Jan	112	2,860	4,024	6,996
Feb	101	2,685	3,944	6,730
Mar	131	2,884	4,396	7,410
Apr	157	2,967	4,045	7,169
May	107	2,892	4,680	7,678
Jun	86	2,610	4,525	7,221
Jul	90	2,495	4,738	7,323
Aug	94	2,612	4,729	7,435
Sep	86	2,755	4,384	7,226
Oct	85	2,780	4,542	7,406
Nov	77	2,466	3,999	6,542
Dec	84	2,370	3,635	6,089
YTD	1,211	32,376	51,639	85,226

Table 8.1-3M CO₂ Emission in Power Generation by Energy Type (Cont.)

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2009				
Jan	87	2,841	3,347	6,275
Feb	80	2,352	3,791	6,222
Mar	82	2,720	4,464	7,265
Apr	75	2,820	4,129	7,024
May	82	2,777	4,533	7,392
Jun	82	2,902	4,481	7,465
Jul	82	2,920	4,442	7,445
Aug	84	2,631	4,568	7,283
Sep	86	2,621	4,571	7,279
Oct	108	2,462	4,692	7,262
Nov	84	2,320	4,462	6,866
Dec	98	2,375	4,277	6,750
YTD	1,030	31,741	51,757	84,527
2010				
Jan	80	2,837	4,326	7,244
Feb	83	2,442	4,433	6,958
Mar	108	2,899	4,848	7,855
Apr	83	2,828	4,777	7,688
May	85	2,875	5,218	8,178
Jun	79	2,556	5,146	7,781
Jul	93	2,467	4,995	7,555
Aug	81	2,722	4,897	7,700
Sep	75	2,420	4,911	7,406
Oct	74	2,668	5,012	7,754
Nov	77	2,531	4,711	7,319
Dec	73	2,566	4,714	7,353
YTD	992	31,811	57,989	90,792
Growth Rate (%)				
2007	-53.4	17.0	3.9	3.8
2008	-59.0	3.5	3.6	1.4
2009	-14.9	-2.0	0.2	-0.8
2010	-3.7	0.2	12.0	7.4

Notes: 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 8.1-4M CO₂ Emission in Transport by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2006				
Jan	4,712		16	4,728
Feb	4,407		13	4,420
Mar	4,997		16	5,013
Apr	4,613		14	4,628
May	4,750		17	4,767
Jun	4,407		17	4,424
Jul	4,372		17	4,389
Aug	4,372		23	4,395
Sep	4,219		22	4,241
Oct	4,394		25	4,419
Nov	4,604		25	4,629
Dec	4,754		24	4,778
YTD	54,601		230	54,831
2007				
Jan	4,758		25	4,784
Feb	4,374		26	4,400
Mar	4,953		33	4,986
Apr	4,604		33	4,637
May	4,579		35	4,615
Jun	4,638		38	4,675
Jul	4,480		40	4,520
Aug	4,650		44	4,694
Sep	4,323		47	4,370
Oct	4,506		53	4,559
Nov	4,498		59	4,557
Dec	4,708		66	4,774
YTD	55,071		500	55,571
2008				
Jan	4,660		74	4,735
Feb	4,336		79	4,415
Mar	4,715		93	4,808
Apr	4,530		99	4,629
May	4,376		113	4,489
Jun	3,947		126	4,073
Jul	3,739		150	3,889
Aug	3,938		165	4,103
Sep	3,802		171	3,973
Oct	4,113		192	4,305
Nov	4,077		189	4,266
Dec	4,645		195	4,840
YTD	50,877		1,647	52,524

Table 8.1-4M CO₂ Emission in Transport by Energy Type (Cont.)

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2009				
Jan	4,801		211	5,012
Feb	4,075		216	4,291
Mar	4,633		249	4,882
Apr	4,479		220	4,699
May	4,665		241	4,906
Jun	4,202		247	4,449
Jul	4,303		257	4,560
Aug	4,240		270	4,510
Sep	4,086		263	4,349
Oct	4,295		278	4,573
Nov	4,234		278	4,512
Dec	4,825		302	5,127
YTD	52,838		3,033	55,871
2010				
Jan	4,464		278	4,742
Feb	4,385		279	4,664
Mar	4,737		317	5,054
Apr	4,412		288	4,700
May	4,480		302	4,782
Jun	4,369		316	4,684
Jul	4,423		324	4,747
Aug	4,244		326	4,569
Sep	4,163		332	4,495
Oct	4,241		348	4,589
Nov	4,542		357	4,899
Dec	4,765		379	5,145
YTD	53,224		3,845	57,070
Growth Rate (%)				
2007	0.9		117.6	1.4
2008	-7.6		229.4	-5.5
2009	3.9		84.2	6.4
2010	0.7		26.8	2.2

Notes: 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 8.1-5M CO₂ Emission in Industry by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2006				
Jan	838	2,051	510	3,399
Feb	956	2,236	462	3,654
Mar	986	2,385	524	3,894
Apr	894	1,867	471	3,233
May	898	1,926	553	3,376
Jun	980	1,988	521	3,489
Jul	904	1,922	532	3,358
Aug	831	1,901	567	3,299
Sep	720	1,934	533	3,186
Oct	681	1,964	580	3,225
Nov	671	1,904	585	3,160
Dec	699	2,513	571	3,783
YTD	10,058	24,590	6,408	41,057
2007				
Jan	763	2,462	678	3,903
Feb	756	2,135	603	3,495
Mar	859	2,305	624	3,788
Apr	820	2,635	617	4,073
May	793	1,792	664	3,249
Jun	801	1,714	619	3,134
Jul	728	2,135	627	3,490
Aug	747	2,764	691	4,202
Sep	822	1,768	637	3,226
Oct	889	2,113	723	3,724
Nov	765	2,121	700	3,586
Dec	795	2,409	698	3,902
YTD	9,536	26,353	7,881	43,770
2008				
Jan	765	2,574	733	4,073
Feb	703	2,497	715	3,915
Mar	846	2,536	760	4,143
Apr	923	2,551	757	4,230
May	754	2,588	788	4,130
Jun	680	2,705	750	4,134
Jul	724	2,647	857	4,228
Aug	742	2,490	826	4,058
Sep	692	2,488	840	4,019
Oct	705	2,405	807	3,917
Nov	655	2,228	742	3,626
Dec	687	2,070	764	3,522
YTD	8,877	29,778	9,338	47,993

Table 8.1-5M CO₂ Emission in Industry by Energy Type (Cont.)

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2009				
Jan	693	2,138	827	3,657
Feb	630	2,152	798	3,579
Mar	673	2,247	924	3,844
Apr	633	2,796	855	4,284
May	671	2,663	914	4,248
Jun	640	2,899	951	4,490
Jul	645	2,714	930	4,289
Aug	651	2,618	949	4,218
Sep	643	2,676	997	4,316
Oct	736	2,271	1,061	4,069
Nov	649	2,612	1,032	4,294
Dec	738	2,877	1,018	4,633
YTD	8,003	30,663	11,256	49,921
2010				
Jan	651	2,246	1,051	3,947
Feb	649	2,658	1,051	4,358
Mar	761	2,816	1,217	4,794
Apr	654	2,784	1,074	4,512
May	665	2,784	1,139	4,588
Jun	634	2,863	1,167	4,664
Jul	697	2,792	1,175	4,664
Aug	644	2,607	1,214	4,464
Sep	613	2,742	1,216	4,572
Oct	619	2,525	1,200	4,344
Nov	658	2,799	1,215	4,672
Dec	673	2,429	1,278	4,380
YTD	7,917	32,045	13,998	53,960
Growth Rate (%)				
2007	-5.2	7.2	23.0	6.6
2008	-6.9	13.0	18.5	9.7
2009	-9.9	3.0	20.5	4.0
2010	-1.1	4.5	24.4	8.1

Notes: 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 8.1-6M CO₂ Emission in Other Economic Sectors by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2006				
Jan	1,382			1,382
Feb	1,301			1,301
Mar	1,454			1,454
Apr	1,334			1,334
May	1,408			1,408
Jun	1,314			1,314
Jul	1,314			1,314
Aug	1,338			1,338
Sep	1,272			1,272
Oct	1,313			1,313
Nov	1,366			1,366
Dec	1,423			1,423
YTD	16,220			16,220
2007				
Jan	1,466			1,466
Feb	1,341			1,341
Mar	1,502			1,502
Apr	1,385			1,385
May	1,407			1,407
Jun	1,408			1,408
Jul	1,380			1,380
Aug	1,448			1,448
Sep	1,344			1,344
Oct	1,414			1,414
Nov	1,446			1,446
Dec	1,476			1,476
YTD	17,017			17,017
2008				
Jan	1,552			1,552
Feb	1,436			1,436
Mar	1,572			1,572
Apr	1,509			1,509
May	1,503			1,503
Jun	1,372			1,372
Jul	1,351			1,351
Aug	1,390			1,390
Sep	1,348			1,348
Oct	1,434			1,434
Nov	1,409			1,409
Dec	1,562			1,562
YTD	17,438			17,438

Table 8.1-6M CO₂ Emission in Other Economic Sectors by Energy Type (Cont.)

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2009				
Jan	1,621			1,621
Feb	1,385			1,385
Mar	1,548			1,548
Apr	1,497			1,497
May	1,563			1,563
Jun	1,449			1,449
Jul	1,489			1,489
Aug	1,480			1,480
Sep	1,443			1,443
Oct	1,513			1,513
Nov	1,490			1,490
Dec	1,678			1,678
YTD	18,157			18,157
2010				
Jan	1,571			1,571
Feb	1,522			1,522
Mar	1,662			1,662
Apr	1,539			1,539
May	1,574			1,574
Jun	1,537			1,537
Jul	1,577			1,577
Aug	1,521			1,521
Sep	1,488			1,488
Oct	1,523			1,523
Nov	1,613			1,613
Dec	1,696			1,696
YTD	18,823			18,823
Growth Rate (%)				
2007	4.9			4.9
2008	2.5			2.5
2009	4.1			4.1
2010	3.7			3.7

Notes: 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

istics
2011

APPENDIX II



Energy
of Thailand

ค่าการแปลงหน่วย CONVERSION FACTORS
ปริมาณพลังงานของเชื้อเพลิง (ค่าความร้อนสุทธิ)
ENERGY CONTENT OF FUEL (NET CALORIFIC VALUE)

ประเภท (หน่วย)	กิโลแคลอรี/ หน่วย kcal/UNIT	ตันเทียบเท่า น้ำมันดิบ/ ล้านหน่วย toe/10 ⁶ UNIT	เมกะจูล/ หน่วย MJ/UNIT	พันบีทียู/ หน่วย 10 ³ Btu/ UNIT	TYPE (UNIT)
พลังงานเชิงพาณิชย์					COMMERCIAL ENERGY
1. น้ำมันดิบ (ลิตร)	8680	860.00	36.33	34.44	1. CRUDE OIL (litre)
2. คอนเดนเสท (ลิตร)	7900	782.72	33.07	31.35	2. CONDENSATE (litre)
3. ก๊าซธรรมชาติ					3. NATURAL GAS
3.1 ชื้น (ลูกบาศก์ฟุต)	248	24.57	1.04	0.98	3.1 WET (scf.)
3.2 แห้ง (ลูกบาศก์ฟุต)	244	24.18	1.02	0.97	3.2 DRY (scf.)
4. ผลิตภัณฑ์ปิโตรเลียม					4. PETROLEUM PRODUCTS
4.1 ก๊าซปิโตรเลียมเหลว (ลิตร)	6360	630.14	26.62	25.24	4.1 LPG (litre)
4.2 น้ำมันเบนซิน (ลิตร)	7520	745.07	31.48	29.84	4.2 GASOLINE (litre)
4.3 น้ำมันเครื่องบิน (ลิตร)	8250	817.40	34.53	32.74	4.3 JET FUEL (litre)
4.4 น้ำมันก๊าด (ลิตร)	8250	817.40	34.53	32.74	4.4 KEROSENE (litre)
4.5 น้ำมันดีเซล (ลิตร)	8700	861.98	36.42	34.52	4.5 DIESEL (litre)
4.6 น้ำมันเตา (ลิตร)	9500	941.24	39.77	37.70	4.6 FUEL OIL (litre)
4.7 ยางมะตอย (ลิตร)	9840	974.93	41.19	39.05	4.7 BITUMEN (litre)
4.8 ปิโตรเลียมโค้ก (กก.)	8400	832.26	35.16	33.33	4.8 PETROLEUM COKE (litre)
5. ไฟฟ้า (กิโลวัตต์ชั่วโมง)	860	85.21	3.60	3.41	5. ELECTRICITY (kWh)
6. ไฟฟ้าพลังน้ำ (กิโลวัตต์ชั่วโมง)	2236	221.54	9.36	8.87	6. HYDROELECTRIC (kWh)
7. พลังงานความร้อนใต้พิภพ (กิโลวัตต์ชั่วโมง)	9500	941.24	39.77	37.70	7. GEOTHERMAL (kWh)
8. ถ่านหินนำเข้า (กก.)	6300	624.19	26.37	25.00	8. COAL IMPORT (kg.)
9. ถ่านโค้ก (กก.)	6600	653.92	27.63	26.19	9. COKE (kg.)
10. แอนทราไซต์ (กก.)	7500	743.09	31.40	29.76	10. ANTHRACITE (kg.)
11. อีเทน (กก.)	11203	1110.05	46.89	44.45	11. ETHANE (kg.)
12. โพรเพน (กก.)	11256	1115.34	47.11	44.67	12. PROPANE (kg.)
13. ลิกไนต์					13. LIGNITE
13.1 ลี (กก.)	4400	435.94	18.42	17.46	13.1 LI (kg.)
13.2 กระบี่ (กก.)	2600	257.60	10.88	10.32	13.2 KRABI (kg.)
13.3 แม่เมาะ (กก.)	2500	247.70	10.47	9.92	13.3 MAE MOH (kg.)
13.4 แจ้คอน (กก.)	3610	357.67	15.11	14.32	13.4 CHAE KHON (kg.)

ค่าการแปลงหน่วย CONVERSION FACTORS
ปริมาณพลังงานของเชื้อเพลิง (ค่าความร้อนสุทธิ)
ENERGY CONTENT OF FUEL (NET CALORIFIC VALUE)

ประเภท (หน่วย)	กิโลแคลอรี/ หน่วย kcal/UNIT	ตันเทียบเท่า น้ำมันดิบ/ ล้านหน่วย toe/10 ⁶ UNIT	เมกะจูล/ หน่วย MJ/UNIT	พันบีทียู/ หน่วย 10 ³ Btu/ UNIT	TYPE (UNIT)
พลังงานใหม่และหมุนเวียน					NEW & RENEWABLE ENERGY
1. ฟืน (กก.)	3820	378.48	15.99	15.16	1. FUEL WOOD (kg.)
2. ถ่าน (กก.)	6900	683.64	28.88	27.38	2. CHARCOAL (kg.)
3. แกลบ (กก.)	3440	340.83	14.40	13.65	3. PADDY HUSK (kg.)
4. กากอ้อย (กก.)	1800	178.34	7.53	7.14	4. BAGASSE (kg.)
5. ขยะ (กก.)	1160	114.93	4.86	4.60	5. GARBAGE (kg.)
6. ขี้เลื่อย (กก.)	2600	257.60	10.88	10.32	6. SAW DUST (kg.)
7. วัสดุเหลือใช้ ทางการเกษตร (กก.)	3030	300.21	12.68	12.02	7. AGRICULTURAL WASTE (kg.)
8. ก๊าซชีวภาพ (ลูกบาศก์เมตร)	5000	495.39	20.93	19.84	8. BIOGAS (m ³)

หน่วยทั่วไป GENERAL		
1 กิโลแคลอรี (kcal)	= 4186	จูล (Joules)
	= 3.968	บีทียู (Btu)
1 ตันเทียบเท่าน้ำมันดิบ (toe)	= 10.093	จิกะแคลอรี (Gcal)
	= 42.244	จิกะจูล (GJ)
	= 40.047 x 10 ⁶	บีทียู (Btu)
1 บาร์เรล (barrel)	= 158.99	ลิตร (litres)
1 ลูกบาศก์เมตรของไม้ (cu.m. of solid wood)	= 600	กิโลกรัม (kg.)
1 ลูกบาศก์เมตรของถ่าน (kg. of charcoal)	= 250	กิโลกรัม (kg.)
5 กิโลกรัมของฟืน (cu.m. of fuel wood)	= 1	กิโลกรัมของถ่าน (kg. of charcoal product)
1 ลิตรของก๊าซปิโตรเลียมเหลว (litre of LPG)	= 0.54	กิโลกรัม (kg.)

ที่มา : รายงานพลังงานของประเทศไทยรายปี กรมพัฒนาพลังงานทดแทนและอนุรักษ์พลังงาน

Appendix II Abbreviations of the Sources Statistics

Abbreviation	Full Name	ชื่อไทย
%S	Percentage of Sulphur Contain	ร้อยละของกำมะถัน
AVG	Average	เฉลี่ย
BBL/D	Barrels per Day	บาร์เรลต่อวัน
BCP	Bangchak Petroleum Public Company Limited	บริษัท บางจากปิโตรเลียม จำกัด (มหาชน)
CNG	Compressed Natural Gas	ก๊าซธรรมชาติที่ใช้เป็นเชื้อเพลิงสำหรับยานยนต์
DEDP	Small Hydro From Kere Tan	โรงไฟฟ้าพลังน้ำคีรีธาร
DEDE	Department of Alternative Energy Development and Efficiency	กรมพัฒนาพลังงานทดแทน และอนุรักษ์พลังงาน
DMF	Department of Mineral Fuels	กรมเชื้อเพลิงธรรมชาติ
DOEB	Department of Energy Business	กรมธุรกิจพลังงาน
EGAT	Electricity Generating Authority of Thailand	การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
ELEC.	Electricity	ไฟฟ้า
EPPO	Energy Policy and Planning Office	สำนักงานนโยบายและแผนพลังงาน
ESSO	Esso (Thailand) Public Company Limited	บริษัท เอสโซ่ (ประเทศไทย) จำกัด (มหาชน)
FO	Fuel Oil	น้ำมันเตา
GSP	Gas Separation Plant	โรงแยกก๊าซ
GWh	Gigawatt-hours	ล้านกิโลวัตต์ชั่วโมง
HSD	High Speed Diesel	ดีเซลหมุนเร็ว
IPP	Independent Power Producers	ผู้ผลิตไฟฟ้าเอกชนรายใหญ่
IRPC	Integrated Refinery & Petrochemical Complex Public Company Limited	บริษัท ไออาร์พีซี จำกัด (มหาชน)
J.P.	Jet Fuel	น้ำมันเครื่องบิน
JDA	Joint Development Area	พื้นที่พัฒนาร่วมระหว่างไทยกับมาเลเซีย
KBD	1,000 Barrels/Day	พันบาร์เรลต่อวัน
ktoe	1,000 Tons of Crude Oil Equivalent	พันตันเทียบเท่าน้ำมันดิบ
kWh	Kilowatt-hours	กิโลวัตต์ชั่วโมง
LPG	Liquefied Petroleum Gas	ก๊าซปิโตรเลียมเหลว
LPG (Car)	Liquefied Petroleum Gas for Automobiles	ก๊าซปิโตรเลียมเหลวที่ใช้ในรถยนต์
LSD	Low Speed Diesel	ดีเซลหมุนช้า
M.Litres	Million litres	ล้านลิตร
MEA	Metropolitan Electricity Authority	การไฟฟ้านครหลวง
MMscfd	Million Standard Cubic Feet per Day	ล้านลูกบาศก์ฟุตต่อวัน
MW	Mega Watt	เมกะวัตต์
NAP	Naphtha	แนฟทา
Nap.& Oths	Naphtha and Others	น้ำมันแนฟทาและอื่นๆ
NG	Natural Gas	ก๊าซธรรมชาติ
NGL	Natural Gas Liquid	ก๊าซโซลีนธรรมชาติ
NGV	Natural Gas for Vehicles	ก๊าซธรรมชาติสำหรับยานยนต์
NPC	National Petrochemical Company	บริษัท ปิโตรเคมีแห่งชาติ จำกัด (มหาชน)
PEA	Provincial Electricity Authority	การไฟฟ้าส่วนภูมิภาค
Pet.	Petroleum	น้ำมันสำเร็จรูป
PTTAR	PTT Aromatics and Refining Public Company Limited	บริษัท ปตท. อะโรมาติกส์และการกลั่น จำกัด (มหาชน)
REGCO	Rayong Electricity Generating Company Limited	บริษัท ผลิตไฟฟ้าระยอง จำกัด
RPC	Rayong Purifier Public Company Limited	บริษัท ระยองเพียวริฟายเออร์ จำกัด(มหาชน)
SPP	Small Power Producers	ผู้ผลิตไฟฟ้าเอกชนรายเล็ก
SPRC	Star Petroleum Refining Company Limited	บริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด
TOC	Thai Oil Public Company Limited	บริษัท ไทยออยล์ จำกัด (มหาชน)
IRPC	IRPC Public Company Limited	บริษัท ไออาร์พีซี จำกัด (มหาชน)
UGR91	Regular Gasoline 91	เบนซินธรรมดา 91
ULG95	Premium Gasoline 95	เบนซินพิเศษ 95
VAT	Value Added Tax	ภาษีมูลค่าเพิ่ม
WT.AVG	Weighted Average	ค่าเฉลี่ยถ่วงน้ำหนัก
YTD	Year to Date	ข้อมูลตั้งแต่วันที่ 1 มกราคมปีนั้น ๆ ถึงวันที่ออกรายงาน

รายชื่อผู้จัดทำรายงานสถิติพลังงานปี 2554

ที่ปรึกษา

นายสุเทพ	เหลืยมศิริเจริญ	ผู้อำนวยการสำนักงานนโยบายและแผนพลังงาน
นายชวลิต	พิชาลัย	รองผู้อำนวยการสำนักงานนโยบายและแผนพลังงาน
นายณที	ทับบณี	รองผู้อำนวยการสำนักงานนโยบายและแผนพลังงาน

คณะผู้จัดทำ

นางเอมอร	ชีพสุมล	ผู้อำนวยการศูนย์พยากรณ์และสารสนเทศพลังงาน
นางสุพิตร	พัตเปรม	ประธานคณะทำงาน
นางสาวสุกัลยา	ตรีวิทย์านุรักษ์	คณะทำงาน
นางสาววิภาวัชนี	ประเสริฐสุข	คณะทำงาน
นางเพท่าย	ภักดีโชติ	คณะทำงาน
นางสาวธัญญารัตน์	ปัทมพงศา	คณะทำงาน
นางสาวชีรา	จิตต์ปราวณี	คณะทำงาน
นางสาวตันติมา	จงเฮงสกุล	คณะทำงาน
นางสาวมาลัย	ผึ่งหลวง	คณะทำงาน
นางสาวศรีนคร	หอมสุวรรณ	คณะทำงาน
นางสาวบุบผา	คุณาไท	คณะทำงานและเลขานุการ
นางสาวพาณี	จิรอดิศัย	ผู้แปล

Energy Statistics of Thailand 2011

Prepared by

Energy Policy and Planning Office (EPPO), Ministry of Energy

Honorary Advisors :

Mr. Suthep	Liumsiri-jarearn	Director General of EPPO
Mr. Chavalit	Pichalai	Deputy Ditector General of EPPO
Mr. Natie	Tabmanie	Deputy Ditector General of EPPO

Editorial Team :

Mrs. Em-orn	Cheepsumol	Director of Energy Forecast and Information Technology Center
Mrs. Supit	Padprem	Editor in Chief
Ms. Sukanlaya	Treewitthayanurak	Editorial Staff
Ms. Vibharaj	Prasertsook	Editorial Staff
Mrs. Peytai	Pakdeechote	Editorial Staff
Ms. Thanyarat	Pattamapongsa	Editorial Staff
Ms. Wachira	Jitpranee	Editorial Staff
Ms. Tantima	Jongheagsakul	Editorial Staff
Ms. Malai	Phungluang	Editorial Staff
Ms. Sarintorn	Homsuwan	Editorial Staff
Ms. Bubpha	Kunathai	Editorial Staff and Secretary
Ms. Panee	Chira-Adisai	English Translation



Energy Policy
and Planning Office
MINISTRY OF ENERGY

สำนักงานนโยบายและแผนพลังงาน กระทรวงพลังงาน
เลขที่ 121/1-2 ถนนเพชรบุรี แขวงทุ่งพญาไท เขตราชเทวี กรุงเทพฯ 10400
โทร. 0 2612 1555 โทรสาร 0 2612 1357-8

Energy Policy and Planning Office, Ministry of Energy
121/1-2 Phetchaburi Road, Ratchatewi, Bangkok 10400, Thailand
Tel. 02612 1555 Fax. 0 2612 1357-8
www.eppo.go.th

ISBN xxx-xxx-xxxx-xx-x