

03

歷年能源供給 (按能源別_數量)

Energy Supply (by Energy Form_Quantity)

單位：千公秉油當量

Unit: 10³ KLOE

年別 Year	總供給 Total	煤及 煤產品 Coal and Coal Products	原油及 石油產品 Crude Oil and Petroleum Products	天然氣 Natural Gas	核能 Nuclear
2003	119,568.9	36,332.7	61,988.0	8,039.3	11,261.3
2004	132,695.6	40,000.3	69,479.7	9,779.7	11,434.6
2005	133,976.8	39,750.2	70,702.5	9,859.6	11,574.1
2006	136,715.1	41,217.0	71,229.7	10,575.9	11,544.7
2007	143,897.6	43,311.5	75,368.1	11,220.9	11,738.3
2008	138,445.3	42,188.3	69,931.5	12,196.4	11,821.6
2009	135,254.7	38,539.2	70,582.4	11,910.6	12,037.2
2010	141,666.0	42,236.2	70,264.7	14,789.1	12,053.8
2011	137,676.8	44,001.4	62,845.9	16,258.1	12,195.1
2012	140,550.6	42,535.4	66,658.6	17,087.3	11,704.3
2013	142,808.9	44,043.9	67,073.0	17,052.6	12,056.9
2014	147,144.4	43,940.8	70,454.5	18,026.3	12,274.0
2015	144,859.1	43,378.6	69,129.1	19,280.0	10,560.4
2016	145,212.7	43,037.2	70,307.4	20,030.0	9,167.7
2017	145,229.1	44,246.9	69,695.6	22,208.0	6,499.2
2018	147,448.9	43,755.2	70,423.7	22,606.4	8,014.4
2019	147,014.1	44,303.8	68,233.3	22,222.1	9,359.4
2020	137,112.3	41,600.8	59,757.5	23,774.2	9,103.7
2021	142,917.5	44,367.7	61,344.7	26,072.9	8,046.2
2022	140,491.6	41,621.6	61,529.6	26,814.1	6,878.3
2023	131,589.1	37,923.7	57,849.4	26,700.0	5,154.7
較上年變動(%) Annual Change	- 6.34	- 8.88	- 5.98	- 0.43	- 25.06

註：總供給=自產 + 進口。

單位：千公秉油當量

Unit: 10³ KLOE

年別 Year	再生能源 Renewable Energy						
	小計 Subtotal	慣常水力 Hydro	地熱 Geothermal	太陽光電 Solar PV	風力 Wind	生質能及 廢棄物 Biomass and Waste	太陽熱能 Solar Thermal
2003	1,947.6	290.0	-	0.0	2.3	1,567.3	87.9
2004	2,001.3	306.7	-	0.1	2.4	1,599.5	92.7
2005	2,090.4	389.0	-	0.1	8.7	1,595.0	97.5
2006	2,147.7	390.7	-	0.1	26.4	1,628.1	102.4
2007	2,258.8	422.1	-	0.2	42.0	1,689.0	105.5
2008	2,307.4	411.4	-	0.4	56.2	1,729.8	109.5
2009	2,185.4	358.2	-	0.9	75.2	1,638.0	113.2
2010	2,322.1	400.8	-	2.1	98.1	1,706.9	114.3
2011	2,376.3	382.2	-	5.9	142.6	1,732.4	113.2
2012	2,565.1	541.8	-	15.3	135.1	1,759.0	114.0
2013	2,582.5	518.2	-	30.7	156.7	1,764.1	112.8
2014	2,448.8	412.6	-	50.5	143.4	1,730.1	112.2
2015	2,511.1	427.1	-	81.2	145.7	1,743.4	113.5
2016	2,670.4	627.0	-	106.0	139.2	1,686.0	112.1
2017	2,579.4	520.5	-	159.3	164.6	1,621.9	113.1
2018	2,649.2	428.2	0.0	258.3	163.4	1,694.6	104.7
2019	2,895.6	529.8	0.7	383.8	180.8	1,699.3	101.1
2020	2,876.1	288.5	1.8	580.5	220.6	1,680.2	104.4
2021	3,086.0	332.0	8.7	761.6	217.0	1,686.7	80.1
2022	3,647.9	557.7	23.9	1,020.2	341.8	1,704.2	-
2023	3,961.3	378.7	22.1	1,233.5	596.1	1,730.9	-
較上年變動(%) Annual Change	8.59	- 32.10	- 7.37	20.90	74.38	1.57	-

03

歷年能源供給 (按能源別_占比)

Energy Supply (by Energy Form_%)

單位：百分比

Unit：%

年別 Year	總供給 Total	煤及 煤產品 Coal and Coal Products	原油及 石油產品 Crude Oil and Petroleum Products	天然氣 Natural Gas	核能 Nuclear
2003	100.00	30.39	51.84	6.72	9.42
2004	100.00	30.14	52.36	7.37	8.62
2005	100.00	29.67	52.77	7.36	8.64
2006	100.00	30.15	52.10	7.74	8.44
2007	100.00	30.10	52.38	7.80	8.16
2008	100.00	30.47	50.51	8.81	8.54
2009	100.00	28.49	52.18	8.81	8.90
2010	100.00	29.81	49.60	10.44	8.51
2011	100.00	31.96	45.65	11.81	8.86
2012	100.00	30.26	47.43	12.16	8.33
2013	100.00	30.84	46.97	11.94	8.44
2014	100.00	29.86	47.88	12.25	8.34
2015	100.00	29.95	47.72	13.31	7.29
2016	100.00	29.64	48.42	13.79	6.31
2017	100.00	30.47	47.99	15.29	4.48
2018	100.00	29.67	47.76	15.33	5.44
2019	100.00	30.14	46.41	15.12	6.37
2020	100.00	30.34	43.58	17.34	6.64
2021	100.00	31.04	42.92	18.24	5.63
2022	100.00	29.63	43.80	19.09	4.90
2023	100.00	28.82	43.96	20.29	3.92
較上年差異 (百分點) Percentage Point	-	- 0.81	0.17	1.20	- 0.98

Note : Energy Supply = Indigenous Production + Import .



03

歷年能源供給（按能源別_占比）（續）

Energy Supply (by Energy Form_%) (Cont.)

單位：百分比

Unit：%

年別 Year	再生能源 Renewable Energy						
	小計 Sub-total	慣常水力 Hydro	地熱 Geothermal	太陽光電 Solar PV	風力 Wind	生質能及 廢棄物 Biomass and Waste	太陽熱能 Solar Thermal
2003	1.63	0.24	-	0.00	0.00	1.31	0.07
2004	1.51	0.23	-	0.00	0.00	1.21	0.07
2005	1.56	0.29	-	0.00	0.01	1.19	0.07
2006	1.57	0.29	-	0.00	0.02	1.19	0.07
2007	1.57	0.29	-	0.00	0.03	1.17	0.07
2008	1.67	0.30	-	0.00	0.04	1.25	0.08
2009	1.62	0.26	-	0.00	0.06	1.21	0.08
2010	1.64	0.28	-	0.00	0.07	1.20	0.08
2011	1.73	0.28	-	0.00	0.10	1.26	0.08
2012	1.83	0.39	-	0.01	0.10	1.25	0.08
2013	1.81	0.36	-	0.02	0.11	1.24	0.08
2014	1.66	0.28	-	0.03	0.10	1.18	0.08
2015	1.73	0.29	-	0.06	0.10	1.20	0.08
2016	1.84	0.43	-	0.07	0.10	1.16	0.08
2017	1.78	0.36	-	0.11	0.11	1.12	0.08
2018	1.80	0.29	0.00	0.18	0.11	1.15	0.07
2019	1.97	0.36	0.00	0.26	0.12	1.16	0.07
2020	2.10	0.21	0.00	0.42	0.16	1.23	0.08
2021	2.16	0.23	0.01	0.53	0.15	1.18	0.06
2022	2.60	0.40	0.02	0.73	0.24	1.21	-
2023	3.01	0.29	0.02	0.94	0.45	1.32	-
較上年差異 （百分點） Percentage Point	0.41	- 0.11	- 0.00	0.21	0.21	0.10	-

03

歷年能源供給 (自產_數量)

Energy Supply (Indigenous_Quantity)

單位：千公秉油當量

Unit: 10³ KLOE

年別 Year	合計 Total	原油 Crude Oil	煉油廠 進料 Refinery Feedstocks	天然氣 Natural Gas
2003	2,756.5	45.8	24.6	738.6
2004	2,782.2	44.6	29.4	707.0
2005	2,629.6	32.4	20.2	486.6
2006	2,610.7	23.6	27.9	411.5
2007	2,686.0	17.8	39.0	370.5
2008	2,710.4	16.1	69.3	317.6
2009	2,569.6	16.0	56.5	311.7
2010	2,653.8	14.2	54.3	263.3
2011	2,733.3	11.3	52.2	293.5
2012	3,017.0	11.4	47.8	392.9
2013	2,976.2	10.5	44.5	338.7
2014	2,856.1	9.1	61.2	337.2
2015	2,935.0	9.2	82.5	332.2
2016	3,042.3	8.4	77.8	285.8
2017	2,904.4	5.4	83.5	236.2
2018	3,167.1	4.7	346.4	175.6
2019	3,402.5	3.9	361.9	148.6
2020	3,337.2	2.2	369.7	93.6
2021	3,570.2	2.5	383.8	98.0
2022	4,085.3	1.9	350.4	85.2
2023	4,387.5	1.6	343.8	80.8
較上年變動(%) Annual Change	7.40	- 12.35	- 1.90	- 5.08

單位：千公秉油當量

Unit: 10³ KLOE

年別 Year	再生能源 Renewable Energy						
	小計 Subtotal	慣常水力 Hydro	地熱 Geothermal	太陽光電 Solar PV	風力 Wind	生質能及 廢棄物 Biomass and Waste	太陽熱能 Solar Thermal
2003	1,947.6	290.0	-	0.0	2.3	1,567.3	87.9
2004	2,001.3	306.7	-	0.1	2.4	1,599.5	92.7
2005	2,090.4	389.0	-	0.1	8.7	1,595.0	97.5
2006	2,147.7	390.7	-	0.1	26.4	1,628.1	102.4
2007	2,258.7	422.1	-	0.2	42.0	1,688.9	105.5
2008	2,307.4	411.4	-	0.4	56.2	1,729.8	109.5
2009	2,185.4	358.2	-	0.9	75.2	1,638.0	113.2
2010	2,322.0	400.8	-	2.1	98.1	1,706.8	114.3
2011	2,376.2	382.2	-	5.9	142.6	1,732.3	113.2
2012	2,565.0	541.8	-	15.3	135.1	1,758.8	114.0
2013	2,582.4	518.2	-	30.7	156.7	1,764.0	112.8
2014	2,448.7	412.6	-	50.5	143.4	1,730.0	112.2
2015	2,511.0	427.1	-	81.2	145.7	1,743.3	113.5
2016	2,670.3	627.0	-	106.0	139.2	1,685.9	112.1
2017	2,579.3	520.5	-	159.3	164.6	1,621.8	113.1
2018	2,640.3	428.2	0.0	258.3	163.4	1,685.7	104.7
2019	2,888.1	529.8	0.7	383.8	180.8	1,691.8	101.1
2020	2,871.7	288.5	1.8	580.5	220.6	1,675.8	104.4
2021	3,086.0	332.0	8.7	761.6	217.0	1,686.6	80.1
2022	3,647.8	557.7	23.9	1,020.2	341.8	1,704.1	-
2023	3,961.2	378.7	22.1	1,233.5	596.1	1,730.8	-
較上年變動(%) Annual Change	8.59	- 32.10	- 7.37	20.90	74.38	1.57	-

03

歷年能源供給（自產_占比）

Energy Supply (Indigenous_%)

單位：百分比

Unit：%

年別 Year	合計 Total	原油 Crude Oil	煉油廠進料 Refinery Feedstocks	天然氣 Natural Gas
2003	2.31	0.04	0.02	0.62
2004	2.10	0.03	0.02	0.53
2005	1.96	0.02	0.02	0.36
2006	1.91	0.02	0.02	0.30
2007	1.87	0.01	0.03	0.26
2008	1.96	0.01	0.05	0.23
2009	1.90	0.01	0.04	0.23
2010	1.87	0.01	0.04	0.19
2011	1.99	0.01	0.04	0.21
2012	2.15	0.01	0.03	0.28
2013	2.08	0.01	0.03	0.24
2014	1.94	0.01	0.04	0.23
2015	2.03	0.01	0.06	0.23
2016	2.10	0.01	0.05	0.20
2017	2.00	0.00	0.06	0.16
2018	2.15	0.00	0.23	0.12
2019	2.31	0.00	0.25	0.10
2020	2.43	0.00	0.27	0.07
2021	2.50	0.00	0.27	0.07
2022	2.91	0.00	0.25	0.06
2023	3.33	0.00	0.26	0.06
較上年差異 （百分點） Percentage Point	0.43	- 0.00	0.01	0.00



03

歷年能源供給（自產_占比）（續）

Energy Supply (Indigenous_%)(Cont.)

單位：百分比

Unit：%

年別 Year	再生能源 Renewable Energy						
	小計 Sub-total	慣常水力 Hydro	地熱 Geothermal	太陽光電 Solar PV	風力 Wind	生質能及 廢棄物 Biomass and Waste	太陽熱能 Solar Thermal
2003	1.63	0.24	-	0.00	0.00	1.31	0.07
2004	1.51	0.23	-	0.00	0.00	1.21	0.07
2005	1.56	0.29	-	0.00	0.01	1.19	0.07
2006	1.57	0.29	-	0.00	0.02	1.19	0.07
2007	1.57	0.29	-	0.00	0.03	1.17	0.07
2008	1.67	0.30	-	0.00	0.04	1.25	0.08
2009	1.62	0.26	-	0.00	0.06	1.21	0.08
2010	1.64	0.28	-	0.00	0.07	1.20	0.08
2011	1.73	0.28	-	0.00	0.10	1.26	0.08
2012	1.82	0.39	-	0.01	0.10	1.25	0.08
2013	1.81	0.36	-	0.02	0.11	1.24	0.08
2014	1.66	0.28	-	0.03	0.10	1.18	0.08
2015	1.73	0.29	-	0.06	0.10	1.20	0.08
2016	1.84	0.43	-	0.07	0.10	1.16	0.08
2017	1.78	0.36	-	0.11	0.11	1.12	0.08
2018	1.79	0.29	0.00	0.18	0.11	1.14	0.07
2019	1.96	0.36	0.00	0.26	0.12	1.15	0.07
2020	2.09	0.21	0.00	0.42	0.16	1.22	0.08
2021	2.16	0.23	0.01	0.53	0.15	1.18	0.06
2022	2.60	0.40	0.02	0.73	0.24	1.21	-
2023	3.01	0.29	0.02	0.94	0.45	1.32	-
較上年差異 (百分點) Percentage Point	0.41	- 0.11	- 0.00	0.21	0.21	0.10	-

03

歷年能源供給 (進口_數量)

Energy Supply (Imported_Quantity)

單位：千公秉油當量

Unit: 10³ KLOE

年別 Year	合計 Total	煤及 煤產品 Coal and Coal Products	原油及 石油產品 Crude Oil and Petroleum Products	液化天然氣 LNG	生質能及 廢棄物 Biomass and Waste	核能 Nuclear
2003	116,812.4	36,332.7	61,917.7	7,300.7	-	11,261.3
2004	129,913.4	40,000.3	69,405.8	9,072.7	-	11,434.6
2005	131,347.2	39,750.2	70,649.9	9,373.0	-	11,574.1
2006	134,104.4	41,217.0	71,178.3	10,164.4	-	11,544.7
2007	141,211.6	43,311.5	75,311.4	10,850.4	0.1	11,738.3
2008	135,734.8	42,188.3	69,846.1	11,878.7	0.0	11,821.6
2009	132,685.1	38,539.2	70,509.8	11,598.9	0.1	12,037.2
2010	139,012.2	42,236.2	70,196.2	14,525.8	0.1	12,053.8
2011	134,943.6	44,001.4	62,782.3	15,964.7	0.1	12,195.1
2012	137,533.6	42,535.4	66,599.4	16,694.3	0.1	11,704.3
2013	139,832.8	44,043.9	67,017.9	16,713.9	0.1	12,056.9
2014	144,288.3	43,940.8	70,384.3	17,689.1	0.1	12,274.0
2015	141,924.2	43,378.6	69,037.3	18,947.7	0.1	10,560.4
2016	142,170.4	43,037.2	70,221.2	19,744.3	0.1	9,167.7
2017	142,324.7	44,246.9	69,606.7	21,971.8	0.1	6,499.2
2018	144,281.8	43,755.2	70,072.5	22,430.8	8.9	8,014.4
2019	143,611.7	44,303.8	67,867.5	22,073.4	7.5	9,359.4
2020	133,775.0	41,600.8	59,385.6	23,680.6	4.4	9,103.7
2021	139,347.3	44,367.7	60,958.5	25,974.9	0.0	8,046.2
2022	136,406.3	41,621.6	61,177.3	26,729.0	0.0	6,878.3
2023	127,201.6	37,923.7	57,504.0	26,619.2	0.1	5,154.7

較上年變動(%)
Annual Change

- 6.75

- 8.88

- 6.00

- 0.41

32.64

- 25.06



03

歷年能源供給（進口_占比）

Energy Supply (Imported_%)

單位：百分比

Unit：%

年別 Year	合計 Total	煤及 煤產品 Coal and Coal Products	原油及 石油產品 Crude Oil and Petroleum Products	液化天然氣 LNG	生質能及 廢棄物 Biomass and Waste	核能 Nuclear
2003	97.69	30.39	51.78	6.11	-	9.42
2004	97.90	30.14	52.30	6.84	-	8.62
2005	98.04	29.67	52.73	7.00	-	8.64
2006	98.09	30.15	52.06	7.43	-	8.44
2007	98.13	30.10	52.34	7.54	0.00	8.16
2008	98.04	30.47	50.45	8.58	0.00	8.54
2009	98.10	28.49	52.13	8.58	0.00	8.90
2010	98.13	29.81	49.55	10.25	0.00	8.51
2011	98.01	31.96	45.60	11.60	0.00	8.86
2012	97.85	30.26	47.38	11.88	0.00	8.33
2013	97.92	30.84	46.93	11.70	0.00	8.44
2014	98.06	29.86	47.83	12.02	0.00	8.34
2015	97.97	29.95	47.66	13.08	0.00	7.29
2016	97.90	29.64	48.36	13.60	0.00	6.31
2017	98.00	30.47	47.93	15.13	0.00	4.48
2018	97.85	29.67	47.52	15.21	0.01	5.44
2019	97.69	30.14	46.16	15.01	0.01	6.37
2020	97.57	30.34	43.31	17.27	0.00	6.64
2021	97.50	31.04	42.65	18.17	0.00	5.63
2022	97.09	29.63	43.55	19.03	0.00	4.90
2023	96.67	28.82	43.70	20.23	0.00	3.92
較上年差異 （百分點） Percentage Point	- 0.43	- 0.81	0.15	1.20	0.00	- 0.98

03

歷年能源供給（初級能源總供給）

Energy Supply (Total Primary Energy Supply)

單位：千公秉油當量

Unit: 10³ KLOE

年別 Year	初級能源 總供給 Total Primary Energy Supply	自產 Indigenous Production	進口 Import	出口 Exports	國際海運 International Marine Bunkers	國際航空 International Civil Aviation	存貨變動 Stock Changes
2003	104,743.6	2,756.5	116,812.4	11,122.7	3,429.7	1,921.4	- 1,648.7
2004	109,655.2	2,782.2	129,913.4	14,888.4	2,771.5	2,193.4	3,187.2
2005	110,642.7	2,629.6	131,347.2	17,295.8	2,720.2	2,271.7	1,046.4
2006	113,579.1	2,610.7	134,104.4	16,553.8	2,682.5	2,364.9	1,534.9
2007	119,162.1	2,686.0	141,211.6	19,594.1	2,401.0	2,336.4	403.9
2008	114,597.9	2,710.4	135,734.8	19,043.7	2,068.1	2,062.3	673.2
2009	111,990.0	2,569.6	132,685.1	20,878.3	1,830.9	1,949.0	- 1,393.4
2010	119,532.5	2,653.8	139,012.2	18,064.2	1,978.1	2,199.0	- 107.8
2011	119,420.5	2,733.3	134,943.6	15,522.4	1,809.5	2,193.5	- 1,269.1
2012	118,451.7	3,017.0	137,533.6	18,888.7	1,313.3	2,305.6	- 408.8
2013	120,621.7	2,976.2	139,832.8	19,489.2	1,360.0	2,444.6	- 1,106.5
2014	123,063.4	2,856.1	144,288.3	19,395.4	1,303.8	2,666.6	715.2
2015	121,672.8	2,935.0	141,924.2	18,799.8	1,219.9	2,840.3	326.4
2016	122,231.1	3,042.3	142,170.4	19,309.6	1,439.9	3,052.7	- 820.5
2017	121,829.1	2,904.4	142,324.7	19,017.8	1,345.6	3,164.6	- 128.1
2018	123,251.1	3,167.1	144,281.8	20,449.2	1,306.9	3,234.0	- 792.3
2019	120,085.3	3,402.5	143,611.7	21,758.0	1,444.4	3,342.8	383.6
2020	117,492.6	3,337.2	133,775.0	14,503.0	1,328.4	2,074.3	1,714.0
2021	122,723.2	3,570.2	139,347.3	15,899.0	1,652.1	2,026.1	617.1
2022	118,048.6	4,085.3	136,406.3	18,569.2	1,556.5	2,009.8	307.5
2023	111,361.0	4,387.5	127,201.6	16,396.5	1,374.1	2,874.7	- 417.2

較上年變動(%)
Annual Change

- 5.67 7.40 - 6.75 - 11.70 - 11.72 43.04 - 235.66

註：初級能源總供給=自產+進口-出口-國際海運-國際航空-存貨變動。

Note: Total Primary Energy Supply = Indigenous Production + Import - Exports - International Marine Bunkers - International Civil Aviation - Stock Changes.