

01

能源指標

Energy Indicators

項目 Item	密集度 Intensity						彈性值 Elasticity	
	初級能源 密集度 (公升油當 量/千元) Intensity of Total Primary Energy Supply (LOE/ 10 ³ NT\$)	能源消費 密集度 (公升油當 量/千元) Intensity of Domestic Energy Consumption (LOE/ 10 ³ NT\$)	工業部門 能源消費 密集度 (公升油當 量/千元) Intensity of Industrial Energy Consumption (LOE/10 ³ NT\$)	服務業部門 能源消費 密集度 (公升油當 量/千元) Intensity of Service Energy Consumption (LOE/10 ³ NT\$)	電力密集度 (度/千元) Electricity Intensity (kWh/ 10 ³ NT\$)	能源生產力 (元/公升 油當量) Energy Productivity (NT\$/LOE)	國內能源 消費彈性值 Elasticity of Domestic Energy Consumption	電力消費 彈性值 Elasticity of Electricity Consumption
年別 Year								
2003	9.80	6.78	8.36	0.70	18.75	147.53	1.28	1.27
2004	9.59	6.62	7.85	0.70	18.36	151.04	0.64	0.68
2005	9.18	6.38	7.33	0.71	18.13	156.66	0.30	0.76
2006	8.91	6.12	7.09	0.69	17.73	163.49	0.23	0.60
2007	8.75	6.07	6.46	0.66	17.14	164.79	0.88	0.49
2008	8.35	5.75	6.05	0.66	16.73	173.99	- 5.67	- 2.04
2009	8.29	5.77	5.82	0.65	16.34	173.22	0.73	2.42
2010	8.03	5.57	5.38	0.63	15.94	179.63	0.62	0.74
2011	7.74	5.25	5.19	0.60	15.68	190.42	- 0.60	0.54
2012	7.51	5.14	4.90	0.58	15.28	194.40	0.06	- 0.18
2013	7.46	5.16	4.86	0.58	15.16	193.62	1.17	0.67
2014	7.27	5.00	4.39	0.57	14.83	199.91	0.30	0.52
2015	7.08	4.95	4.26	0.57	14.55	202.06	0.26	- 0.29
2016	6.96	4.86	4.14	0.56	14.55	205.69	0.17	1.00
2017	6.72	4.69	3.96	0.55	14.41	213.15	- 0.09	0.71
2018	6.61	4.64	3.98	0.52	14.30	215.65	0.57	0.71
2019	6.25	4.35	3.84	0.50	13.83	229.76	- 1.06	- 0.10
2020	5.91	4.22	3.60	0.49	13.65	236.82	0.09	0.61
2021	5.79	4.17	3.40	0.47	13.37	239.93	0.79	0.67
2022	5.43	3.83	3.15	0.48	12.86	261.31	- 2.24	- 0.51
2023	5.06	3.58	3.21	0.47	12.57	279.58	- 4.18	- 0.82

012 註：1.初級能源密集度=初級能源總供給 / 實質國內生產毛額，即生產每一單位實質國內生產毛額所需供給之能源。

2.能源消費密集度=國內能源消費 / 實質國內生產毛額，即生產每一單位實質國內生產毛額所需消費之能源。

項目 Item	能源進口 值占名目 GDP比例 (%) Value of Energy Imports/ Nominal GDP	人均指標 Per Capita Indicators			安全指標 Security Indicators				
		平均每人 能源消費量 (公升油 當量/人) Per Capita Energy Consump- tion (LOE)	平均每人 用電量 (度/人) Per Capita Electricity Consump- tion (kWh)	平均每人 負擔能源 進口值 (臺幣元/人) Per Capita Value of Energy Imports (NT\$)	進口能源 依存度 (%) Dependence on imported Energy	進口石油 依存度 (%) Dependence on Oil imports	進口天然 氣 依存度 (%) Dependence on LNG imports	能源進 口率 (%) Imported Energy/ Energy Supply	能源進口值 占總進口值 比例 (%) Value of Energy Imports / Values of Total Imports
年別 Year									
2003	4.74	3,212	8,885	22,973	97.46	99.86	90.81	97.69	11.58
2004	6.46	3,343	9,268	33,066	97.64	99.86	92.77	97.90	13.00
2005	7.86	3,384	9,611	41,619	97.75	99.90	95.06	98.04	15.92
2006	9.43	3,416	9,901	51,956	97.83	99.91	96.11	98.09	17.64
2007	10.73	3,606	10,188	62,594	97.84	99.90	96.70	98.13	19.59
2008	14.62	3,431	9,987	83,387	97.73	99.83	97.40	98.04	25.09
2009	9.58	3,379	9,564	53,632	97.75	99.85	97.38	98.10	21.15
2010	11.13	3,582	10,259	67,607	97.85	99.87	98.22	98.13	19.33
2011	12.87	3,495	10,438	79,139	97.76	99.87	98.19	98.01	21.77
2012	13.47	3,488	10,361	84,991	97.52	99.88	97.70	97.85	24.10
2013	12.32	3,578	10,500	80,558	97.59	99.88	98.01	97.92	22.88
2014	11.74	3,620	10,729	81,550	97.76	99.86	98.13	98.06	22.50
2015	6.73	3,625	10,656	48,956	97.67	99.82	98.28	97.97	15.36
2016	5.37	3,629	10,862	40,081	97.58	99.83	98.57	97.90	12.73
2017	6.51	3,612	11,097	49,679	97.70	99.82	98.94	98.00	14.86
2018	8.02	3,666	11,305	62,473	97.51	99.30	99.22	97.85	17.19
2019	7.07	3,544	11,261	56,690	97.28	99.21	99.33	97.69	15.12
2020	4.34	3,557	11,502	36,665	97.28	99.18	99.61	97.57	10.18
2021	6.18	3,761	12,066	57,052	97.19	99.15	99.62	97.50	12.53
2022	10.04	3,566	11,983	97,621	96.65	99.18	99.68	97.09	18.12
2023	7.37	3,372	11,846	74,293	96.19	99.17	99.70	96.67	15.83

Note : 1.Intensity of Total Primary Energy Supply = Total primary energy supply / real GDP.

2.Intensity of Domestic Energy Consumption = Domestic energy consumption / real GDP.

項目 Item	集中度 Concentration				電力指標 Electricity Indicators				
	能源供應 種類集中度 (%) Types of Energy Supply	進口原油 來源集中度 (%) Countries of Imported Crude Oil	進口天然氣 來源集中度 (%) Countries of Imported LNG	發電能源 種類集中度 (%) Energy Types of Generation	備用容量率 (%) Percent Reserve Margin	平均負載 (千瓦) Average Load (MW)	尖峰負載 (千瓦) Peak Load (MW)	負載率 (%) Load Factor	線路損失率 (%) Line Loss Rate
年別 Year									
2003	59.23	39.99	72.54	59.30	14.61	19,841	28,594	69.39	5.03
2004	59.54	37.69	70.75	58.87	20.18	20,634	29,034	71.07	4.93
2005	59.81	40.10	66.48	58.79	16.35	21,651	30,943	69.97	4.76
2006	59.02	41.11	60.58	58.61	16.05	22,439	32,060	69.99	4.85
2007	58.58	42.39	55.59	58.95	16.20	23,043	32,791	70.27	4.75
2008	57.50	43.55	50.20	58.22	21.10	22,796	31,320	72.78	4.58
2009	57.88	42.80	48.17	59.40	28.10	22,101	31,011	71.27	4.86
2010	56.31	43.30	41.34	57.98	23.40	23,674	33,023	71.69	4.66
2011	55.34	45.56	46.52	58.20	20.60	24,320	33,787	71.98	4.76
2012	55.78	43.05	54.52	58.11	22.70	24,102	33,081	72.86	4.42
2013	55.39	45.55	56.49	57.83	17.50	24,364	33,957	71.75	4.25
2014	55.33	42.93	52.18	57.71	14.70	25,026	34,821	71.87	4.09
2015	55.36	43.68	53.13	56.82	11.50	25,012	35,248	70.96	3.72
2016	55.69	42.02	49.05	57.29	10.40	25,705	35,864	71.67	3.85
2017	56.26	40.79	41.63	59.08	9.81	26,379	36,259	72.75	3.82
2018	55.80	42.06	40.53	59.29	9.97	26,631	37,057	71.87	3.94
2019	55.40	43.71	43.54	58.21	16.79	26,538	37,067	71.59	3.86
2020	54.07	45.22	43.07	58.61	16.44	27,200	37,715	72.12	3.97
2021	54.37	44.50	43.94	58.78	13.55	28,403	38,607	73.57	3.53
2022	54.56	46.34	47.70	58.06	12.19	28,753	40,593	70.83	3.82
2023	54.91	46.48	50.72	58.49	14.70	28,218	39,489	71.46	3.20

項目 Item	再生能源 Renewable Energy				碳排放指標 CO ₂ Emissions Indicators			
	再生能源 供給占初 級能源總 供給比例 (%) RE Supply / Total Primary Energy Supply	再生能源 供給占總 供給比例 (%) RE Supply / Energy Supply	再生能源 發電占總 發電量比例 (%) RE Gen- eration / Total Power Generation	再生能源 裝置容量 占總裝置 容量比例 (%) RE Installed Capacity / Total Installed Capacity	燃料燃燒 二氧化碳 排放量 (百萬公噸) Fuel Combustion from CO ₂ Emissions (10 ⁶ CO ₂ tonne)	平均每人 二氧化碳 排放量 (公噸CO ₂ /人) CO ₂ Emissions Per Capita (Tonnes of CO ₂ Per Capita)	二氧化碳 排放密集度 (公斤 CO ₂ /千元) CO ₂ Emissions Intensity (Kg CO ₂ /10 ³ NT\$)	電力排碳 係數 (公斤 CO ₂ e /度) Electricity Carbon Emission Factor (Kg CO ₂ e/ kWh)
年別 Year								
2003	1.86	1.63	2.97	6.31	229.84	10.19	21.50	-
2004	1.83	1.51	3.02	6.10	239.93	10.59	20.98	-
2005	1.89	1.56	3.31	6.05	247.96	10.91	20.58	0.555
2006	1.89	1.57	3.29	6.02	255.33	11.19	20.03	0.562
2007	1.90	1.57	3.42	6.15	259.21	11.31	19.03	0.558
2008	2.01	1.67	3.47	6.27	247.54	10.76	18.03	0.555
2009	1.95	1.62	3.39	6.32	235.87	10.22	17.46	0.543
2010	1.94	1.64	3.50	6.55	251.71	10.88	16.90	0.534
2011	1.99	1.73	3.56	6.97	257.10	11.08	16.65	0.534
2012	2.17	1.83	4.26	7.43	253.20	10.88	16.05	0.529
2013	2.14	1.81	4.30	7.82	254.11	10.89	15.71	0.519
2014	1.99	1.66	3.82	8.40	258.48	11.04	15.26	0.518
2015	2.06	1.73	4.06	8.90	258.48	11.02	15.04	0.525
2016	2.18	1.84	4.82	9.53	262.98	11.18	14.98	0.530
2017	2.12	1.78	4.58	10.67	269.46	11.44	14.86	0.554
2018	2.15	1.80	4.59	11.88	267.46	11.34	14.35	0.533
2019	2.41	1.97	5.57	13.89	259.08	10.98	13.48	0.509
2020	2.45	2.10	5.42	16.54	257.69	10.93	12.97	0.502
2021	2.51	2.16	6.02	19.55	267.28	11.39	12.62	0.509
2022	3.09	2.60	8.29	22.81	258.27	11.08	11.89	0.495
2023	3.56	3.01	9.52	28.04	250.65	10.74	11.39	0.494