



05

再生能源發電量 (數量)

Renewable Energy Power Generation (Quantity)

單位：百萬度

Unit : GWh

年別 Year	合計 Total	慣常水力 Hydro	地熱 Geothermal	太陽光電 Solar PV
2004	6,585.0	3,209.9	-	0.6
2005	7,540.9	4,071.4	-	1.0
2006	7,743.8	4,088.4	-	1.5
2007	8,324.8	4,417.5	-	2.2
2008	8,259.1	4,305.1	-	4.5
2009	7,809.5	3,748.3	-	9.1
2010	8,639.8	4,194.1	-	21.7
2011	8,987.1	3,999.7	-	61.6
2012	10,662.7	5,669.6	-	159.9
2013	10,858.1	5,422.9	-	321.1
2014	9,925.1	4,317.9	-	528.8
2015	10,478.8	4,470.1	-	850.3
2016	12,732.8	6,562.0	-	1,109.0
2017	12,369.3	5,446.8	-	1,667.5
2018	12,653.0	4,481.6	0.0	2,703.7
2019	15,266.2	5,544.8	0.8	4,017.0
2020	15,186.1	3,019.2	1.9	6,074.7
2021	17,530.9	3,474.7	9.1	7,970.2
2022	23,883.7	5,836.5	25.0	10,675.3
2023	26,995.4	3,963.0	23.2	12,909.7
2024	33,916.6	4,208.2	26.7	15,295.9
較上年變動(%) Annual Change	25.64	6.19	15.44	18.48

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再生能源發電量 (數量) (續)

Renewable Energy Power Generation (Quantity) (Cont.)

 單位：百萬度
Unit : GWh

年別 Year	風力 Wind			生質能 Biomass			廢棄物 Waste
	小計 Subtotal	陸域 Onshore	離岸 Offshore	小計 Subtotal	固態 Solid	氣態 Biogas	
2004	25.3	25.3	-	348.5	279.1	69.4	3,000.8
2005	91.3	91.3	-	323.5	262.4	61.1	3,053.8
2006	276.1	276.1	-	321.3	266.8	54.4	3,056.7
2007	439.5	439.5	-	302.3	246.9	55.4	3,163.3
2008	588.3	588.3	-	272.5	227.0	45.5	3,088.7
2009	786.6	786.6	-	229.3	187.5	41.8	3,036.1
2010	1,026.3	1,026.3	-	270.0	234.7	35.4	3,127.6
2011	1,492.7	1,492.7	-	236.1	209.7	26.4	3,196.9
2012	1,413.5	1,413.5	-	242.1	218.6	23.5	3,177.7
2013	1,640.0	1,640.0	-	228.5	205.3	23.1	3,245.7
2014	1,500.5	1,500.5	-	252.5	231.9	20.6	3,325.5
2015	1,525.2	1,525.2	-	249.0	227.4	21.6	3,384.2
2016	1,457.1	1,457.1	-	208.1	185.8	22.3	3,396.6
2017	1,722.5	1,702.1	20.4	191.6	169.4	22.1	3,341.0
2018	1,709.5	1,682.8	26.7	191.6	166.4	25.2	3,566.6
2019	1,892.2	1,715.9	176.4	176.5	151.4	25.1	3,634.9
2020	2,308.9	1,792.8	516.1	211.8	141.4	70.4	3,569.7
2021	2,270.8	1,701.5	569.3	201.7	153.2	48.5	3,604.5
2022	3,577.5	2,082.8	1,494.7	164.3	118.3	46.0	3,605.1
2023	6,238.3	1,741.0	4,497.3	244.2	171.3	72.8	3,617.0
2024	10,509.8	1,898.4	8,611.4	237.7	173.8	63.9	3,638.3
較上年變動(%) Annual Change	68.47	9.04	91.48	- 2.65	1.42	- 12.21	0.59



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再生能源發電量 (占比)

Renewable Energy Power Generation (%)

單位：百分比
Unit：%

年別 Year	合計 Total	慣常水力 Hydro	地熱 Geothermal	太陽光電 Solar PV
2004	100.00	48.75	-	0.01
2005	100.00	53.99	-	0.01
2006	100.00	52.79	-	0.02
2007	100.00	53.06	-	0.03
2008	100.00	52.13	-	0.05
2009	100.00	48.00	-	0.12
2010	100.00	48.54	-	0.25
2011	100.00	44.51	-	0.69
2012	100.00	53.17	-	1.50
2013	100.00	49.94	-	2.96
2014	100.00	43.50	-	5.33
2015	100.00	42.66	-	8.11
2016	100.00	51.54	-	8.71
2017	100.00	44.03	-	13.48
2018	100.00	35.42	0.00	21.37
2019	100.00	36.32	0.00	26.31
2020	100.00	19.88	0.01	40.00
2021	100.00	19.82	0.05	45.46
2022	100.00	24.44	0.10	44.70
2023	100.00	14.68	0.09	47.82
2024	100.00	12.41	0.08	45.10
較上年差異 (百分點) 2024 vs. 2023	-	- 2.27	- 0.01	- 2.72

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再生能源發電量 (占比) (續)

Renewable Energy Power Generation (%) (Cont.)

單位：百分比
Unit：%

年別 Year	風力 Wind			生質能 Biomass			廢棄物 Waste
	小計 Subtotal	陸域 Onshore	離岸 Offshore	小計 Subtotal	固態 Solid	氣態 Biogas	
2004	0.38	0.38	-	5.29	4.24	1.05	45.57
2005	1.21	1.21	-	4.29	3.48	0.81	40.50
2006	3.57	3.57	-	4.15	3.45	0.70	39.47
2007	5.28	5.28	-	3.63	2.97	0.67	38.00
2008	7.12	7.12	-	3.30	2.75	0.55	37.40
2009	10.07	10.07	-	2.94	2.40	0.54	38.88
2010	11.88	11.88	-	3.13	2.72	0.41	36.20
2011	16.61	16.61	-	2.63	2.33	0.29	35.57
2012	13.26	13.26	-	2.27	2.05	0.22	29.80
2013	15.10	15.10	-	2.10	1.89	0.21	29.89
2014	15.12	15.12	-	2.54	2.34	0.21	33.51
2015	14.56	14.56	-	2.38	2.17	0.21	32.30
2016	11.44	11.44	-	1.63	1.46	0.18	26.68
2017	13.93	13.76	0.16	1.55	1.37	0.18	27.01
2018	13.51	13.30	0.21	1.51	1.32	0.20	28.19
2019	12.39	11.24	1.16	1.16	0.99	0.16	23.81
2020	15.20	11.81	3.40	1.39	0.93	0.46	23.51
2021	12.95	9.71	3.25	1.15	0.87	0.28	20.56
2022	14.98	8.72	6.26	0.69	0.50	0.19	15.09
2023	23.11	6.45	16.66	0.90	0.63	0.27	13.40
2024	30.99	5.60	25.39	0.70	0.51	0.19	10.73
較上年差異 (百分點) 2024 vs. 2023	7.88	- 0.85	8.73	- 0.20	- 0.12	- 0.08	- 2.67