

## 29.發電量統計表

單位：百萬度

項 目	民 國	民 國	民 國	民 國	民 國	民 國	民 國	民 國
	93年	94年	95年	96年	97年	98年	99年	100年
	2004	2005	2006	2007	2008	2009	2010	2011
<b>抽蓄水力</b>	<b>3,345.7</b>	<b>3,838.5</b>	<b>3,910.7</b>	<b>3,932.7</b>	<b>3,467.2</b>	<b>3,305.1</b>	<b>3,061.0</b>	<b>2,902.1</b>
台電	3,345.7	3,838.5	3,910.7	3,932.7	3,467.2	3,305.1	3,061.0	2,902.1
淨發電量	3,337.7	3,830.3	3,902.3	3,924.5	3,458.9	3,289.7	3,047.2	2,889.0
廠用電	8.0	8.3	8.4	8.2	8.3	15.4	13.8	13.1
<b>火力</b>	<b>168,977.5</b>	<b>176,164.4</b>	<b>184,006.0</b>	<b>190,323.1</b>	<b>185,754.5</b>	<b>177,352.8</b>	<b>193,731.2</b>	<b>198,162.1</b>
台電 <sup>1</sup>	94,340.1	99,551.5	108,189.1	112,082.3	113,317.1	101,280.1	115,726.6	120,353.5
淨發電量	89,876.7	94,828.5	103,094.7	106,912.0	108,140.8	96,761.8	110,764.5	115,271.7
廠用電	4,463.4	4,723.0	5,094.4	5,170.3	5,176.3	4,518.4	4,962.1	5,081.7
民營電廠	35,378.2	37,520.6	36,875.6	37,395.0	36,480.3	39,618.9	40,801.1	41,480.6
自用發電設備	39,259.2	39,092.3	38,941.2	40,845.8	35,957.1	36,453.8	37,203.5	36,328.0
<b>核能</b>	<b>39,490.1</b>	<b>39,972.0</b>	<b>39,870.5</b>	<b>40,539.2</b>	<b>40,826.9</b>	<b>41,571.1</b>	<b>41,628.7</b>	<b>42,116.5</b>
台電	39,490.1	39,972.0	39,870.5	40,539.2	40,826.9	41,571.1	41,628.7	42,116.5
淨發電量	37,938.7	38,403.9	38,316.6	38,960.8	39,260.5	39,981.0	40,028.5	40,522.2
廠用電	1,551.4	1,568.1	1,553.9	1,578.4	1,566.4	1,590.1	1,600.2	1,594.3
<b>再生能源</b>	<b>6,583.4</b>	<b>7,452.1</b>	<b>7,743.0</b>	<b>8,321.6</b>	<b>8,256.8</b>	<b>7,808.1</b>	<b>8,638.0</b>	<b>8,986.4</b>
台電	3,196.7	4,019.6	4,202.3	4,598.5	4,433.6	3,973.2	4,592.4	4,694.8
慣常水力 <sup>2</sup>	3,183.9	3,942.6	4,028.1	4,322.0	4,160.8	3,601.5	4,073.4	3,883.2
淨發電量	3,164.4	3,926.0	4,007.6	4,303.0	4,139.1	3,581.9	4,053.2	3,862.4
廠用電	19.5	16.7	20.5	19.1	21.7	19.6	20.2	20.8
地熱	-	-	-	-	-	-	-	-
太陽光電	-	-	-	-	0.1	0.1	3.9	8.6
風力	12.8	77.0	174.2	276.5	272.7	371.7	515.2	803.0
民營電廠	26.0	43.5	150.4	248.4	450.7	553.5	621.6	799.8
慣常水力	26.0	43.5	60.2	95.5	144.3	146.8	120.7	116.5
太陽光電	-	-	-	-	-	-	-	-
風力	-	-	90.2	152.9	306.4	406.7	500.8	683.3
自用發電設備	3,360.7	3,389.0	3,390.3	3,474.7	3,372.6	3,281.3	3,424.0	3,491.8
地熱	-	-	-	-	-	-	-	-
太陽光電	0.6	1.0	1.5	2.2	4.4	9.0	17.9	53.0
風力	12.4	14.3	11.7	10.2	9.2	8.3	10.3	6.5
生質能	347.4	323.1	321.2	302.2	272.6	229.3	270.0	236.1
廢棄物	3,000.3	3,050.6	3,055.9	3,160.2	3,086.4	3,034.7	3,125.8	3,196.3
<b>總發電量<sup>3</sup></b>	<b>218,396.6</b>	<b>227,427.0</b>	<b>235,530.1</b>	<b>243,116.6</b>	<b>238,305.4</b>	<b>230,037.2</b>	<b>247,058.9</b>	<b>252,167.0</b>
台電	140,372.6	147,381.7	156,172.6	161,152.6	162,044.7	150,129.6	165,008.7	170,066.9
淨發電量	134,330.2	141,065.6	149,495.2	154,376.7	155,272.0	143,986.2	158,412.4	163,357.0
廠用電	6,042.4	6,316.1	6,677.4	6,776.0	6,772.7	6,143.4	6,596.3	6,709.9
民營電廠	35,404.2	37,564.1	37,026.0	37,643.4	36,931.0	40,172.4	41,422.7	42,280.4
自用發電設備	42,619.9	42,481.2	42,331.5	44,320.5	39,329.7	39,735.1	40,627.5	39,819.8

註：1.台電火力含燃油、複循環、氣渦輪、柴油機組。

2.台電慣常水力含自設及託營機組。

3.本表總發電量為毛發電量，且包含民營與汽電共生自用發電設備裝置容量，與台電系統淨發購電量不同。

## 29. Power Generation

Unit : GWh

民國 101年 2012	民國 102年 2013	民國 103年 2014	民國 104年 2015	民國 105年 2016	民國 106年 2017	民國 107年 2018	民國 108年 2019	Item
<b>2,936.9</b>	<b>3,187.1</b>	<b>3,121.2</b>	<b>3,035.0</b>	<b>3,293.7</b>	<b>3,333.7</b>	<b>3,370.8</b>	<b>3,208.1</b>	<b>Pumped Storage</b>
2,936.9	3,187.1	3,121.2	3,035.0	3,293.7	3,333.7	3,370.8	3,208.1	Taiwan Power Company
2,924.2	3,174.1	3,108.3	3,023.1	3,281.6	3,322.0	3,358.8	3,195.7	Net Power Generation
12.7	13.0	12.9	11.8	12.0	11.7	12.0	12.4	Station Service
<b>196,344.5</b>	<b>196,667.3</b>	<b>204,532.6</b>	<b>208,159.8</b>	<b>216,422.5</b>	<b>232,111.8</b>	<b>231,847.3</b>	<b>223,279.7</b>	<b>Thermal</b>
123,128.9	120,414.1	125,672.1	131,068.1	139,144.4	155,864.1	153,859.6	146,066.7	Taiwan Power Company <sup>1</sup>
118,074.8	115,637.3	120,818.3	126,405.9	134,112.7	150,333.1	148,293.6	140,568.4	Net Power Generation
5,054.1	4,776.8	4,853.8	4,662.2	5,031.8	5,530.9	5,566.0	5,498.2	Station Service
39,234.0	39,491.8	40,684.9	41,381.9	42,401.4	42,513.0	40,791.9	41,231.7	IPPs
33,981.6	36,761.3	38,175.6	35,709.8	34,876.7	33,734.7	37,195.7	35,981.3	Autoproducers
<b>40,421.7</b>	<b>41,639.4</b>	<b>42,389.0</b>	<b>36,471.1</b>	<b>31,661.4</b>	<b>22,445.5</b>	<b>27,682.4</b>	<b>32,323.4</b>	<b>Nuclear</b>
40,421.7	41,639.4	42,389.0	36,471.1	31,661.4	22,445.5	27,682.4	32,323.4	Taiwan Power Company
38,887.3	40,078.6	40,801.1	35,143.0	30,461.1	21,560.5	26,656.4	31,147.4	Net Power Generation
1,534.4	1,560.7	1,587.9	1,328.1	1,200.3	885.1	1,026.0	1,176.0	Station Service
<b>10,670.3</b>	<b>10,847.1</b>	<b>9,921.2</b>	<b>10,476.0</b>	<b>12,730.1</b>	<b>12,365.4</b>	<b>12,648.5</b>	<b>15,247.5</b>	<b>Renewable Energy</b>
6,262.1	6,037.6	4,912.6	5,100.3	7,064.8	6,072.3	5,116.0	6,346.6	Taiwan Power Company
5,512.3	5,272.8	4,183.1	4,358.5	6,395.9	5,302.4	4,334.2	5,416.7	Conventional <sup>2</sup>
5,490.9	5,250.7	4,160.2	4,335.9	6,371.3	5,279.9	4,312.0	5,392.3	Net Power Generation
21.4	22.1	22.9	22.6	24.6	22.5	22.1	24.4	Station Service
-	-	-	-	-	-	-	-	Geothermal
13.2	16.8	22.9	25.2	23.2	24.1	31.6	149.9	Solar
736.5	748.1	706.5	716.5	645.7	745.8	750.3	779.9	Wind
825.6	1,039.7	941.5	940.7	1,005.9	1,182.4	1,158.8	1,342.6	IPPs
157.2	150.1	134.8	111.6	166.2	144.4	147.4	128.1	Conventional
-	5.8	19.9	29.8	36.0	69.8	84.4	131.5	Solar
668.3	883.8	786.9	799.2	803.8	968.2	927.0	1,083.0	Wind
3,582.7	3,769.7	4,067.1	4,435.1	4,659.3	5,110.7	6,373.7	7,558.3	Autoproducers
-	-	-	-	-	-	0.0	0.8	Geothermal
146.7	298.5	486.0	795.2	1,049.8	1,573.5	2,596.1	3,732.9	Solar
8.6	8.1	7.0	9.5	7.6	8.5	29.6	29.3	Wind
241.3	219.3	249.8	246.2	205.4	187.7	181.4	164.5	Biomass
3,186.2	3,243.7	3,324.2	3,384.2	3,396.6	3,341.0	3,566.6	3,630.9	Waste
<b>250,373.4</b>	<b>252,340.8</b>	<b>259,963.9</b>	<b>258,141.9</b>	<b>264,107.7</b>	<b>270,256.4</b>	<b>275,548.9</b>	<b>274,058.7</b>	<b>Total Power Generation<sup>3</sup></b>
172,749.6	171,278.2	176,094.9	175,674.4	181,164.3	187,715.6	190,028.8	187,944.8	Taiwan Power Company
166,126.9	164,905.4	169,617.3	169,649.7	174,895.6	181,265.4	183,382.7	181,203.4	Net Power Generation
6,622.7	6,372.8	6,477.5	6,024.7	6,268.6	6,450.2	6,646.1	6,741.3	Station Service
40,059.5	40,531.5	41,626.4	42,322.5	43,407.3	43,695.4	41,950.7	42,574.3	IPPs
37,564.3	40,531.0	42,242.7	40,144.9	39,536.0	38,845.4	43,569.4	43,539.6	Autoproducers

Note: 1. Thermal power plant of Taiman Power Company includes coal-fired, oil fired, and gas-fired units.

2. Conventional hydro-power of Taiwan Power Company includes self-owned and commissioned hydro power units.

3. The total power generation is the summation of gross power generation from Taipower, IPPs and cogeneration generators, which include non-utility power generators. It is different from the net power generation and power purchase data released by the Taiwan Power Company.