

## 29.發電量統計表

單位：百萬度

項 目	民 國 94年 2005	民 國 95年 2006	民 國 96年 2007	民 國 97年 2008	民 國 98年 2009	民 國 99年 2010	民 國 100年 2011	民 國 101年 2012
<b>抽蓄水力</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>	<b>2,936.9</b>
台電	3,838.5	3,910.7	3,932.7	3,467.2	3,305.1	3,061.0	2,902.1	2,936.9
淨發電量	3,830.3	3,902.3	3,924.5	3,458.9	3,289.7	3,047.2	2,889.0	2,924.2
廠用電	8.3	8.4	8.2	8.3	15.4	13.8	13.1	12.7
<b>火力</b>	<b>176,160.8</b>	<b>184,005.1</b>	<b>190,319.9</b>	<b>185,752.3</b>	<b>177,351.4</b>	<b>193,729.4</b>	<b>198,161.4</b>	<b>196,352.7</b>
台電 <sup>1</sup>	99,551.5	108,189.1	112,082.3	113,317.1	101,280.1	115,726.6	120,353.5	123,128.9
淨發電量	94,828.5	103,094.7	106,912.0	108,140.8	96,761.8	110,764.5	115,271.7	118,074.8
廠用電	4,723.0	5,094.4	5,170.3	5,176.3	4,518.4	4,962.1	5,081.7	5,054.1
民營電廠	37,520.6	36,875.6	37,395.0	36,480.3	39,618.9	40,801.1	41,480.6	39,234.0
自用發電設備	39,088.7	38,940.3	40,842.6	35,954.9	36,452.4	37,201.7	36,327.3	33,989.8
<b>核能</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>	<b>40,421.7</b>
台電	39,972.0	39,870.5	40,539.2	40,826.9	41,571.1	41,628.7	42,116.5	40,421.7
淨發電量	38,403.9	38,316.6	38,960.8	39,260.5	39,981.0	40,028.5	40,522.2	38,887.3
廠用電	1,568.1	1,553.9	1,578.4	1,566.4	1,590.1	1,600.2	1,594.3	1,534.4
<b>再生能源</b>	<b>7,541.0</b>	<b>7,743.9</b>	<b>8,324.8</b>	<b>8,259.1</b>	<b>7,809.5</b>	<b>8,639.8</b>	<b>8,987.1</b>	<b>10,662.1</b>
台電	4,104.5	4,202.3	4,598.5	4,433.6	3,973.2	4,592.4	4,694.8	6,262.1
慣常水力 <sup>2</sup>	4,027.5	4,028.1	4,322.0	4,160.8	3,601.5	4,073.4	3,883.2	5,512.3
淨發電量	4,010.9	4,007.6	4,303.0	4,139.1	3,581.9	4,053.2	3,862.4	5,490.9
廠用電	16.7	20.5	19.1	21.7	19.6	20.2	20.8	21.4
地熱	-	-	-	-	-	-	-	-
太陽光電	-	-	-	0.1	0.1	3.9	8.6	13.2
風力	77.0	174.2	276.5	272.7	371.7	515.2	803.0	736.5
民營電廠	43.8	150.4	248.4	450.7	553.5	621.6	799.8	825.6
慣常水力	43.8	60.2	95.5	144.3	146.8	120.7	116.5	157.2
太陽光電	-	-	-	-	-	-	-	-
風力	-	90.2	152.9	306.4	406.7	500.8	683.3	668.3
自用發電設備	3,392.6	3,391.2	3,477.9	3,374.8	3,282.8	3,425.8	3,492.5	3,574.5
慣常水力	-	-	-	-	-	-	-	-
地熱	-	-	-	-	-	-	-	-
太陽光電	1.0	1.5	2.2	4.4	9.0	17.9	53.0	146.7
風力	14.3	11.7	10.2	9.2	8.3	10.3	6.5	8.6
生質能	323.5	321.3	302.3	272.5	229.4	270.0	236.1	241.5
廢棄物	3,053.8	3,056.7	3,163.3	3,088.7	3,036.1	3,127.6	3,197.0	3,177.7
<b>總發電量<sup>3</sup></b>	<b>227,512.3</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>	<b>250,373.4</b>
台電	147,466.6	156,172.6	161,152.6	162,044.7	150,129.6	165,008.7	170,066.9	172,749.6
淨發電量	141,150.5	149,495.2	154,376.7	155,272.0	143,986.2	158,412.4	163,357.0	166,126.9
廠用電	6,316.1	6,677.4	6,776.0	6,772.7	6,143.4	6,596.3	6,709.9	6,622.7
民營電廠	37,564.4	37,026.0	37,643.4	36,931.0	40,172.4	41,422.7	42,280.4	40,059.5
自用發電設備	42,481.2	42,331.5	44,320.5	39,329.7	39,735.2	40,627.5	39,819.8	37,564.3

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 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	民國 109年 2020	Item
<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>3,158.9</b>	<b>Pumped Storage</b>
3,187.1	3,121.2	3,035.0	3,293.7	3,333.7	3,370.8	3,208.1	3,158.9	Taiwan Power Company
3,174.1	3,108.3	3,023.1	3,281.6	3,322.0	3,358.8	3,195.7	3,146.9	Net Power Generation
13.0	12.9	11.8	12.0	11.7	12.0	12.4	12.1	Station Service
<b>196,659.1</b>	<b>204,531.4</b>	<b>208,159.8</b>	<b>216,422.5</b>	<b>232,111.8</b>	<b>231,843.4</b>	<b>223,407.0</b>	<b>230,228.1</b>	<b>Thermal</b>
120,414.1	125,672.1	131,068.1	139,144.4	155,864.1	153,859.6	146,066.7	152,523.0	Taiwan Power Company <sup>1</sup>
115,637.3	120,818.3	126,405.9	134,112.7	150,333.1	148,293.6	140,568.4	146,949.8	Net Power Generation
4,776.8	4,853.8	4,662.2	5,031.8	5,530.9	5,566.0	5,498.2	5,573.2	Station Service
39,491.8	40,684.9	41,381.9	42,401.4	42,513.0	40,791.9	41,231.7	42,567.2	IPPs
36,753.2	38,174.4	35,709.8	34,876.7	33,734.8	37,191.8	36,108.7	35,137.9	Autoproducers
<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>31,440.2</b>	<b>Nuclear</b>
41,639.4	42,389.0	36,471.1	31,661.4	22,445.5	27,682.4	32,323.4	31,440.2	Taiwan Power Company
40,078.6	40,801.1	35,143.0	30,461.1	21,560.5	26,656.4	31,147.4	30,341.9	Net Power Generation
1,560.7	1,587.9	1,328.1	1,200.3	885.1	1,026.0	1,176.0	1,098.3	Station Service
<b>10,855.2</b>	<b>9,922.4</b>	<b>10,476.1</b>	<b>12,730.1</b>	<b>12,365.4</b>	<b>12,652.7</b>	<b>15,252.3</b>	<b>15,312.7</b>	<b>Renewable Energy</b>
6,037.6	4,912.6	5,100.3	7,064.8	6,072.3	5,116.0	6,346.6	3,977.9	Taiwan Power Company
5,272.8	4,183.1	4,358.5	6,395.9	5,302.4	4,334.2	5,416.7	2,925.7	Conventional <sup>2</sup>
5,250.7	4,160.2	4,335.9	6,371.3	5,279.9	4,312.0	5,392.3	2,904.7	Net Power Generation
22.1	22.9	22.6	24.6	22.5	22.1	24.4	21.0	Station Service
-	-	-	-	-	-	-	-	Geothermal
16.8	22.9	25.2	23.2	24.1	31.6	149.9	258.4	Solar
748.1	706.5	716.5	645.7	745.8	750.3	779.9	793.9	Wind
1,039.7	941.5	940.7	1,005.9	1,182.4	1,158.8	1,342.6	2,268.2	IPPs
150.1	134.8	111.6	166.2	144.4	147.4	128.1	93.2	Conventional
5.8	19.9	29.8	36.0	69.8	84.4	131.5	557.8	Solar
883.8	786.9	799.2	803.8	968.2	927.0	1,083.0	1,617.3	Wind
3,777.9	4,068.3	4,435.1	4,659.3	5,110.7	6,377.9	7,563.1	9,066.5	Autoproducers
-	-	-	-	-	-	-	0.3	Conventional
-	-	-	-	-	0.0	0.8	1.9	Geothermal
298.5	486.0	795.2	1,049.8	1,573.5	2,596.1	3,732.9	5,279.2	Solar
8.1	7.0	9.5	7.6	8.5	30.0	29.3	22.0	Wind
225.6	249.8	246.2	205.4	187.7	185.3	169.8	202.5	Biomass
3,245.7	3,325.5	3,384.2	3,396.6	3,341.0	3,566.6	3,630.4	3,560.6	Waste
<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>275,549.3</b>	<b>274,190.9</b>	<b>280,139.9</b>	<b>Total Power Generation<sup>3</sup></b>
171,278.2	176,094.9	175,674.4	181,164.3	187,715.6	190,028.8	187,944.8	191,100.1	Taiwan Power Company
164,905.4	169,617.3	169,649.7	174,895.6	181,265.4	183,382.7	181,203.4	184,372.8	Net Power Generation
6,372.8	6,477.5	6,024.7	6,268.6	6,450.2	6,646.1	6,741.3	6,727.3	Station Service
40,531.5	41,626.4	42,322.5	43,407.3	43,695.4	41,950.7	42,574.3	44,835.4	IPPs
40,531.1	42,242.7	40,145.0	39,536.0	38,845.5	43,569.8	43,671.8	44,204.4	Autoproducers

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