Electricity

Retailing

## Taipower's Value Chain and Operational Elements



## Taipower's electricity generation in 2022

generation	
Renewable energy	6.3 billion kWh
Pumped-storage hydroelectricity	3.1 billion kWh
Nuclear power	22.9 billion kWh

## **Electricity purchased from** external sources in 2022

Privately-owned thermal power plants	42.7 billion kWh
Cogeneration	3.4 billion kWh
Renewable energy	15.3 billion kWh

- Total length of power transmission lines: 18,032.1 circuit kilometers Including overhead power lines and underground cables
- Total length of distribution lines: 410,071 circuit kilometers
- Number of substations: 621

Percentage of electricity used (sold) by user type		User power supply
Industry	57%	135.7 billion kWh
Residential	20%	48.1 billion kWh
Commercial	15%	35.4 billion kWh
Others	8%	17.6 billion kWh
Total sold: 236.8 billion kWh		

## **Outputs**

- Earnings before tax: NT\$227.047 billion
- Electricity fee income: NT\$645.1 billion
- · Net amount of generated and purchased power: 250.7 billion kWh
- Power generated: 188.3 billion kWh
- Power purchased: 62.5 billion kWh
- Facility utilization rate: 79.1%
- Line loss rate: 3.82%
- · Greenhouse gas emissions:
- 98,480 kt CO₂e
- Air pollution emissions: (kg/GWh)
  - Particulate pollutants emitted: 5
  - Sulfur oxide emissions: 84
  - Nitrogen oxide emissions: 169
- Number of new employees: 2,028
- Total number of participants in education and training: 91,043
- Incidents of work-related injury: 7
- Ratio of work-rated injuries: 0.031%
- · Number of research reports: 206
- Number of papers published: 115
- Number of patents/intellectual property cases:
- 96 in the Republic of China
- 2 in the United States
- 1 in Japan
- · Customer satisfaction rate: 95.1 percent



Integrity, Care, Service, Growth









- Power development promotion and assistance fund: NT\$3.035 billion
  - Capacity of demand response: 2.620 MW
- 11 Independent Power Producers (IPPs), 47 cogeneration power providers and 50,980 contracts for renewable energy (including solar power, wind power, hydro power and others)