

6.3.3 Increasing Energy Management Performance

| Initiatives | 2018 Action Plans | Results |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <ul style="list-style-type: none"> Continue to promote energy management, energy-saving through automation Installation of LED light fixtures Replacement of old air conditioning system Replacement of old elevators and introduction of energy-saving systems. Promote internet data center rooms' energy-saving measures | <p>Total electricity consumption of the main office buildings of Fubon Financial Holdings and branch units of Fubon's four major subsidiaries in 2018 decreased by 4,195,730 kWh compared to 2017 at a rate of roughly 4.73%.</p> | Completed |
| <ul style="list-style-type: none"> Continue to incorporate ISO50001 Energy Management System certification | <p>Incorporated the Energy Management System at Fubon FHC and Fubon four major subsidiaries.</p> | |

In 2017, Fubon Financial Holdings and Fubon Insurance successfully introduced and obtained certifications for the ISO 50001 energy management system. In 2018, the ISO 50001 energy management system is further introduced in Taipei Fubon Bank, Fubon Life, and Fubon Securities, all of which obtained certifications; Fubon Financial Holdings, Taipei Fubon Bank, and Fubon Life were also simultaneously given the Excellence Award at the 2018 "Taipei Energy Conservation Leadership Awards Business Industry Group A".



Supervisors at Fubon Financial Holdings, Taipei Fubon Bank, and Fubon Life received the "2018 Taipei Energy Conservation Leadership Awards Business Industry Group Excellence Award".

Fubon Financial Holdings will continue to improve its energy management performance by complying with energy policies and planning, enacting, and subsequently adopting monitoring and measurement measures for goals and key policy tasks to implement various types of programs aimed at reducing our energy use and carbon emissions and actively help main subsidiaries plan and implement a carbon footprint inventory (which takes into account e-billing, internet banking, e-policies, etc.) and determine carbon emissions caused by employee travel, thereby doing our best to achieve our reduction targets.

In order to improve energy management efficiency, Fubon Financial Holdings proposed this energy conservation plan:

- Actively promote the replacement of office building lights with LED energy-saving lights. In 2018, lights in the Fubon Insurance Building, Fubon Life Building public area, and branch units across Taiwan continue to be replaced, with the installment of 11,019 energy-saving lights, which can reduce roughly 561,140 kg CO₂e emissions.
- In 2018, Taipei Fubon Bank's Zhongshan Building carried out construction to replace the air conditioning system and improve water-side system efficiency, which can reduce CO₂e emissions by roughly 201,500 kg each year.
- In 2019, Taipei Fubon Bank's Beitou Building has completed constructions to replace the air conditioning system, which can reduce CO₂e emissions by an estimated 18,725 kg per year.
- In 2019, 11 elevators in the Fubon Financial Building will be replaced in succession, while computer control is strengthened and energy-saving facilities installed. After all replacements are completed in 2020, CO₂e emissions will be expected to drop by roughly 93,200 kg each year.

The amount of carbon emissions reduced by new carbon reduction measures in 2018 reached:

$$561,140 + 201,500 + 317,110 + 13,281 = 1,093,031 \text{ kg CO}_2\text{e}$$

* The reduction of carbon emissions comes from new energy-saving lights and air conditioning systems, energy-saving measures in the internet data center, and addition of solar panels

| Facilities with Upgraded Lighting | Quantity (bulbs) | Amount (NT\$) | Estimated Power Savings (kWh) | Projected Reduction in Carbon Emissions (kg CO2e) |
|-----------------------------------|------------------|---------------|-------------------------------|---------------------------------------------------|
| 2016 | 9,622 | 11,329,600 | 1,279,213 | 675,424 |
| 2017 | 30,081 | 30,344,838 | 2,779,804 | 1,470,516 |
| 2018 | 11,019 | 12,832,649 | 1,012,888 | 561,140 |

- Fubon Financial Holding's internet data center actively promote energy-saving measures. The PUE of internet data center dropped from 1.90 in 2017 to 1.81 in 2018, effectively improving the efficiency of energy use. Total electricity consumption in 2018 is 10,054,400 kWh, a decrease of 572,400 kWh compared to the 10,626,800 kWh in 2017, reducing CO2e emissions by roughly 317,110 kg.
- 1.Improve the efficiency of air conditioning, closing unused cabinet spaces and raised floor openings to reduce the mix of cold and warm air; Seal off excess external windows to avoid solar radiant heat; Turn up or turn off unnecessary air conditioning.
 - 2.Reduce power consumption: Reduce non-essential lighting and uninterruptible power systems to reduce power consumption while maintaining safety and electrical loads.