

Micro-Grid

Market Conditions



1. Electricity Overloaded



2. Respond to the government's renewable energy

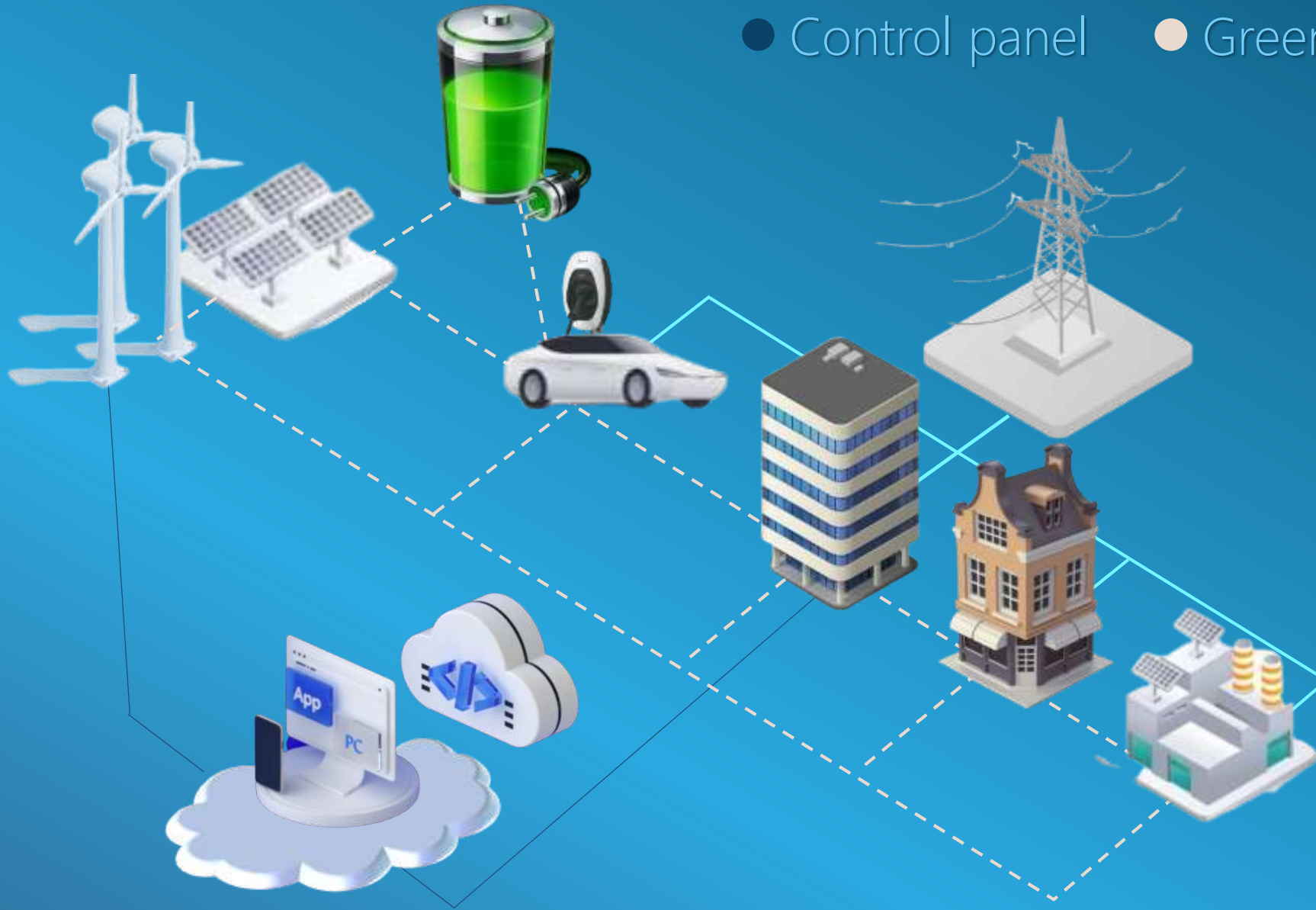


3. Improve the optimal use of energy efficiency



4. Unstable electricity environment

- Control panel
- Green Energy
- Taipower



Micro-grid

Micro-grid refers to the integration of distributed power sources and energy storage systems in a certain area to supply the electrical energy needs of users in the area

It is a regional power grid with the ability to control power, which can be disconnected from the traditional large power grid and operate

Professional services and solutions

One-stop service

Provide complete solutions, design, equipment construction, system integration and management

Modular build

Integrate different microgrid architectures in response to the needs of the field

Multiple applications

Peak shaving and valley filling, power time transfer and auxiliary platform trading

Micro-Grid application area

Type 1

Installing green electricity can help reduce peak mobile electricity bills, and you can also get a green electricity voucher

Type 2

Peak shaving and valley filling can reduce the maximum load demand and reduce the contract capacity with saving electricity bills

Type 3

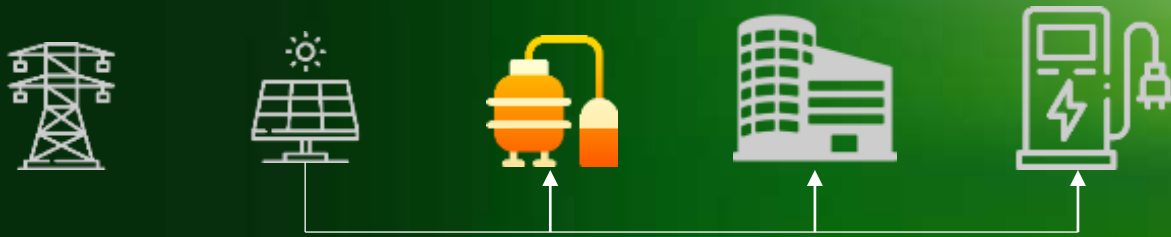
Maintain power emergency backup application through energy storage system

Type 4

Energy conservation/storage with comprehensive application

Scenario 1

Powering with Green Energy



Spontaneous self-use of green electricity
under the condition of sufficient green
energy



Scenario 2

Black Out



Continuous power supply is still available when the utility power is interrupted



Scenario 3

Over inhibition



Avoid the new trend of self-sufficiency in contract capacity



Scenario 4

Storage operation



Not affected by Taipower and weather,
use your own energy storage
equipment to meet domestic needs



Microgrid application

- Residential Microgrid
- Community Microgrid
- Sumitomo Microgrid
- Factory Microgrid
- Island Microgrid

Micro-Grid Benefits



01

Financial Benefit

Reduce contract capacity and electricity usage



02

Environmental goods

Reduce the use of traditional energy sources with high carbon emissions



03

Social benefit

Increase the proportion and utilization of renewable energy



04

Electricity

Improve power supply reliability and power quality

Methodology

Energy diagnosis

Building model scheme

Best energy investment

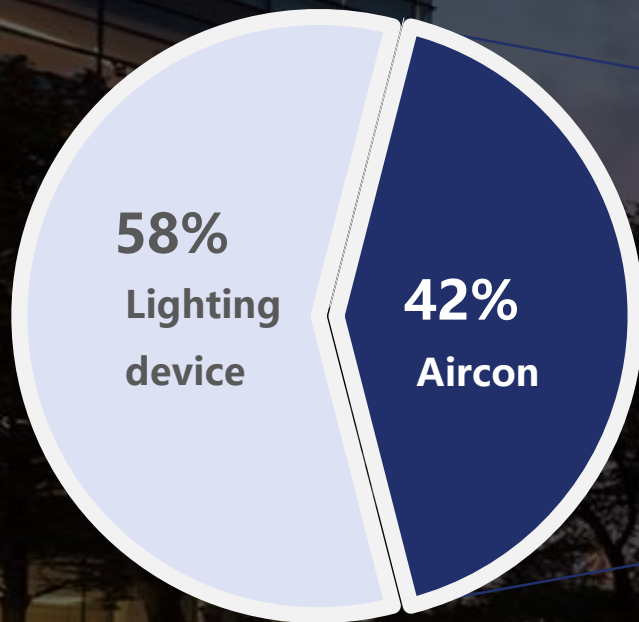


Energy Saving plan

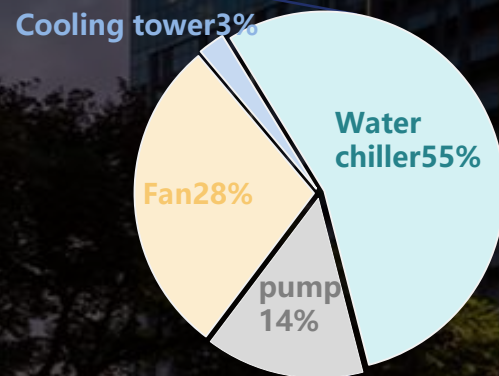
Minsheng Building case study



Total energy use



Air-conditioned electric usage



Month	Energy consume(kwh)	Simulate energy consume(kwh)	deviation
1	150,000	144,801	-3.47%
2	137,200	132,632	-3.33%
3	165,200	177,817	7.64%
4	190,600	188,792	-0.95%
5	225,400	234,893	4.21%
6	263,000	258,973	-1.53%
7	292,200	287,113	-1.74%
8	312,600	294,585	-5.76%
9	275,000	248,413	-9.67%
10	222,800	230,711	3.55%
11	200,000	200,627	0.31%
12	154,800	154,964	0.11%
TOTAL	2,588,800	2,554,319	-1.33%

Accuracy up to 98%



永續 與智慧時代同步

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