

Smart Energy Solutions

High Safety and High Performance Solutions

▶ About Tatung

Established in 1918, as a global conglomerate, Tatung Co. was one of the first companies listed in Taiwan. By merging their expertise in specialized electromechanics and system integration, Tatung Company integrates solar PV generation system, smart meter, mobile substation and distributed grid and provide comprehensive smart energy total solutions and smart management systems services. In recent years, Tatung has built more than 500 solar PV power stations at home and abroad. In 2019, Tatung even established a smart bus terminal in Czech Republic and proactively expanded its foreign market, thus its overseas disposition gradually becomes mature.

大同公司

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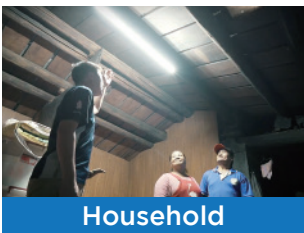
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Smart Energy Solutions

Tatung provides smart energy solution, increases its autonomous power ratio and reduce loss during the long distance transmission from the supply mains; the solution indeed achieves the energy saving and eco-friendly goals, lower the emissions caused by fossil fuel generation, and thus decreasing the greenhouse effect. It could resolve the shortcomings of the power infrastructure by using autonomous power supply system in regions. It also has the potential to promote social and economic development for areas with frequent power outages caused by natural disasters and regions that are inconvenient to provide power. When the supply mains is operating normally, the autonomous management of the micro-grid could effectively reduce the impact of renewable energy onto the supply mains, resolving the uncertainty of power generation intermission. When the supply mains malfunctions, the micro-grid can independently operate to supply power to the emergency power equipment, thus improving the reliability of power generation.

Type of Smart Energy Solutions



Household

- Solar power 5Kw
- Battery 10-40kWh
- Load supply 5kW
- 10kW diesel generator (optional)
- Available for grid-connected or off-grid use
- Uninterruptible power supply



Village

- Solar power 100-250kW
- Battery 100-500kWh
- Load supply 100-250kW
- Integration of diesel generator (optional)
- Charge and discharge schedule management



Offshore Islands

- Customized solar PV design
- Customized battery design
- Customized load design
- Integration of diesel generator
- Saving diesel fuel cost
- Available for grid-connected or off-grid use



Large Energy Storage

- Output capacity 1-5MW
- Battery 1-10kWh
- Smoothing
- Charge and discharge schedule
- Frequency regulation

Features

In response to the emerging application of IoT, Tatung integrates energy-saving equipment, ICT technologies, big data analysis, and energy management systems to provide users with more convenient application services.



Turnkey Service

According to user demand and local power consumption habits, the firm provides services such as simulation analysis, design planning, battery material selection to equipment installation.



Stable Management System Technology

The self-developed energy management system has been stably and maturely applied within different countries and regions.

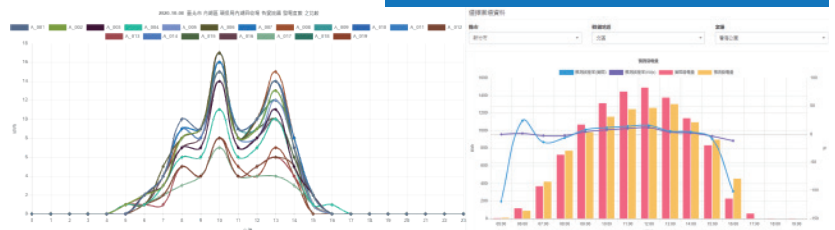


Follow-up Services

Through data statistics and analysis, they constantly regulate the system maintenance performance, predict the power trend, strive for multiple optimizations of the overall performance, system operation, and financial income.



Real-time Solar Power Monitor



Data Statistics and Analysis

Real-Time Data Display



Site Overview



Equipment Overview

