

Design Planning of Renewable Energy Power and Micro Grid System

The best solution when used along with sunlight, and create mutual benefit

節能屋能源

ECOLOHAS ENERGY
TECHNOLOGY
CO., LTD.



About Ecolohas Energy Technology

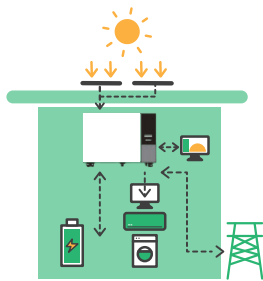
Ecolohas Energy Technology Co., Ltd was established in 1998, focuses on integration of renewable energy system and power storage system and owns a strong energy communication and power configuration technology team. Recently, they place emphasis on the research development of solar energy system and power storage system. By investing heavily on the design, planning and installation of these system, they are proactively integrating, coordinating and managing the products in order to build an array of energy network and decentralized energy and smart microgrids that fulfills the needs of the community. This could raise the efficiency of generating power from the renewable energy as well as its consumption, thereby minimizing and lowering the problem of excess carbon emissions, which would lead to the creation of a green sustainable, environmental friendly, and energy saving world.

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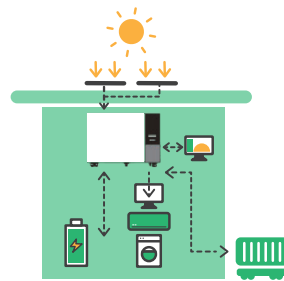
Smart Energy Storage System

The smart renewable energy storage system is a product that is specially developed for indoor and outdoor electricity use. The product is strong, durable, waterproof and dustproof. Furthermore, it has remote monitoring features that is able to monitor the solar energy power generating status, the battery storage status through the internet anywhere anytime. The cost for maintenance is quite low, and all the components are made in Taiwan, therefore it is the best mobile energy storage system that could be used indoors and outdoors.



Hybrid energy storage system

- Able to provide electrical load from sunlight or electric grid
- Able to store solar photovoltaic into the batteries or onto the electrical grid
- Become the emergency backup power during power outage

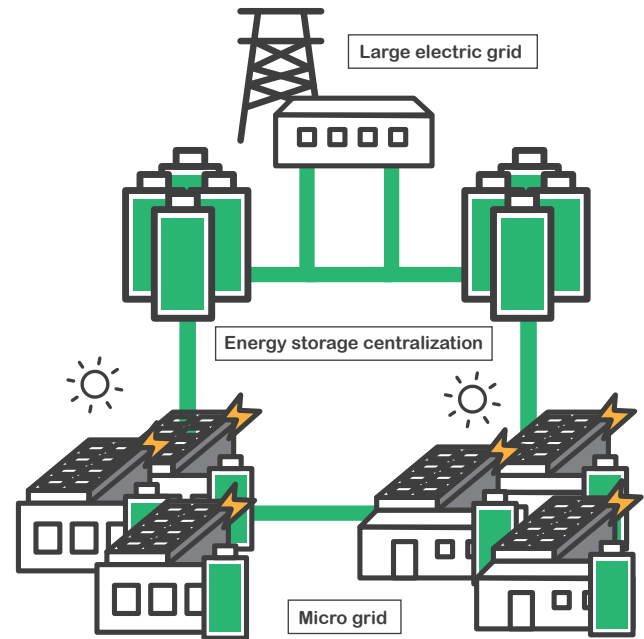


Off grid type energy storage system

- Able to provide electrical load from sunlight or full cell
- Able to store solar photovoltaic into the batteries
- The fuel cell is used as a backup power

Smart Microgrid System

The home based smart microgrid system integrates renewable energy system, energy storage system, solar energy power converter, 2 way charging and discharge battery device and smart energy management system (SEMS). By utilizing SEMS, and combine the solar energy power generator system and the energy storage components, it is able to achieve the goal of maximizing the usage of solar energy. The product could also provide electricity for household appliances and equipment, such as electric lights, computers, air conditioners, refrigerators...etc. After years of testing, the system have been verified in island areas and disaster zones within Taiwan. By combining distributed energy storage facilities and centralized energy storage control, it could truly achieve the goal of smart microgrid, in which the utility power substitution rate can reach 80%.



Solar energy + Small energy storage

▲ Operating the smart grid and micro grid integration system



Innovative technology

Solar energy is a ready to be used energy



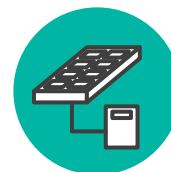
Low malfunction rate

Exquisite intelligence control



Double support

Automatic adjustment of solar energy and city power



Convenient installation

Small sized quick coupling



Great efficiency

Control the maximum power point tracking (MPPT)

