



One day of equator sun
within 6000 m² area
= 4000 kWh

Nocart Solar Hybrid Plant

Product description

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NOCART
Providing Power.

Nocart Solar Hybrid Plant

Product overview

The Nocart Solar Hybrid Plant generates electricity by collecting energy from sunlight with solar modules. The energy is converted into electricity and distributed with the Nocart Power Management Unit (PMU). The energy can be distributed to the national grid or to a completely independent island grid created by the Nocart PMU.

The Nocart Solar Hybrid Plant is a reliable source of energy that helps customers become energy self-sufficient. Solar power is a valuable renewable energy source that has significant environmental benefits. The Solar Hybrid Plant does not generate any harmful emissions during operation. As it helps to reduce greenhouse gas emissions, it is a truly environmentally friendly option. This brings not only benefits in terms of ecology, but also of corporate image. In addition, from day one, the cost savings are significant.

Nocart builds the facility according to the customer's electricity production needs: either solely for their own use, or with the purpose of selling surplus energy to electricity companies. The facility is equipped with reliable industrial-scale power electronics and therefore has a very long expected lifetime.

The Nocart Solar Hybrid Plant is easy to install and maintain, cost-effective, simple, and durable. The system guarantees 24/7 power feed regardless of circumstances, and can operate fully off-grid.

Benefits of using the Nocart Solar Hybrid Plant

The Nocart Solar Hybrid Plant produces **high-quality electricity with seamless supply**. The facility provides uninterrupted energy supply to places where there is poor or non-existent connectivity to the national grid. The Nocart Solar Hybrid Plant keeps the power grid voltage and frequency stable and stores the electricity in batteries. This helps to quickly react to fluctuations in the electrical load.

With the Nocart Solar Hybrid Plant, **significant cost savings** can be achieved as the use of solar energy and batteries reduces – or even eliminates – the need to use costly diesel generators.

The Nocart Solar Hybrid Plant is **fully modular**. With only minor changes, it is possible to upgrade the facility to a greater production class. It can also be supplemented by other types of power units, such as wind turbines, hydro power or biogas production.

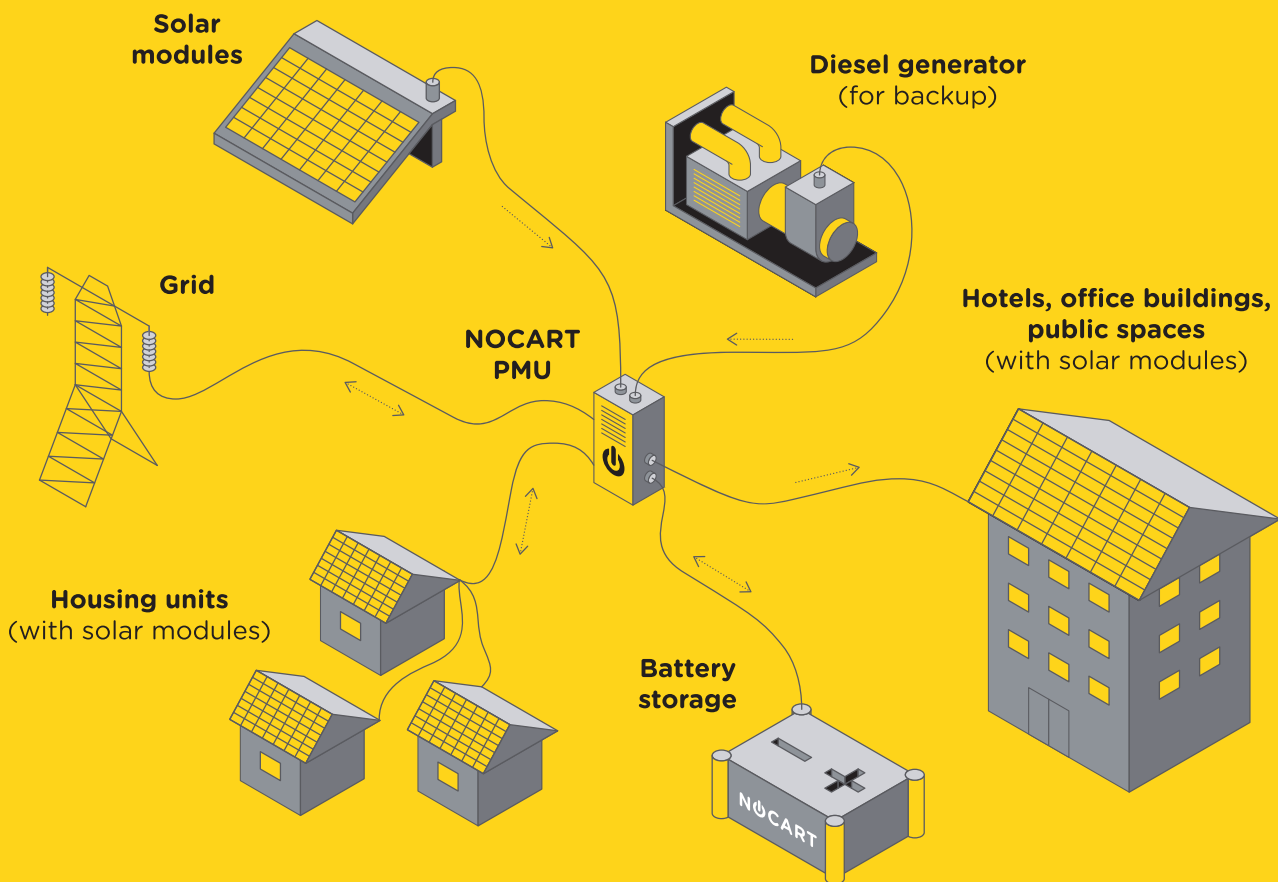
Nocart provides **support and training** for users of their products. With the help of its experienced staff, Nocart contributes to increasing local knowledge of solar power and its benefits.

Through a long period of **research and testing** together with cooperation partners, the experts at Nocart have developed the software as well as the hardware of the facility in order to get the maximum benefit from solar energy.

Nocart's experience and expertise guarantee a **controlled and safe solar energy production process**. Equipped with an excellent remote management system, the Nocart Solar Hybrid Plant's operation is highly automated. The facility does not require daily on-site management.

Solar hybrid grid

With the Nocard PMU, the energy collected by the solar modules can be distributed to a completely independent island grid or to the national grid. The independent grid consumption can range from 30 kW to several megawatts.



The benefits of a solar power plant vs. a diesel grid

The Nocard Solar Hybrid Plant is an environmentally responsible choice, as it generates energy from sunlight. It reduces the use of diesel fuel, which is volatile in its pricing. With a solar power plant, there are no harmful emissions into the atmosphere, which helps to mitigate climate change.

The Nocard Solar Hybrid Plant keeps the power grid stable with the electricity stored in batteries. This helps the solar power plant to react quickly to fluctuations in the electrical load. This reduces the need to use diesel generators and the generators do not need to be dimensioned for peak demand. This creates significant cost savings compared to diesel engine powered grids or even the national grid.

Safety

The Nocart Solar Hybrid Plant has been designed according to European safety standards as well as regulations governing health and safety at work, and fulfils the requirements of European electrical safety standards. With its monitoring and control mechanisms, the Nocart Solar Hybrid Plant operates with a high degree of automation.

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