

Customer Benefits

- Maximize the PV generation
- Optimized for PV + diesel/gas systems
- · Minimizes the energy costs
- · Multiple inverters and gensets management
- Web interface to monitor and control the installation

Key Benefits

• Stable grid operation

energy supply is ensured by diesel/gas gensets.

- Same controller for all systems
- Compatibility with new or existing systems/equipment
- Reactive power control
- · Configurable according project requirements

profitable investment with fast payback in installations where the

Main Features



Smart Management

- Integrated management
- Optimal gensets operation
- Customized to each project requirements
- Active grid feed-in protection (optional)



Scalable

- Modular solutions using the EFASOLAR inverter range
- Single controller for multiple inverters
- · Allows multiple gensets
- Able to integrate diffeent genset controllers



Cost Savings

- Manages and minimizes fuel consumption
- Fast payback and high projects IRR
- Profitable and secure investment
- Reduce maintenance costs



Stable Operation

- Active load supply management
- Optimized PV+Diesel performance
- · Grid quality management
- Genset spinning reserve management



Plug & Play

- Simple installation and O&M
- Compatible with all main genset models
- Compatibility with existing systems / equipment



Monitoring

- Presents all data from system
- Remote access and control of entire system
- Capacity to integrate data in management systems
- · Cross-platform interface

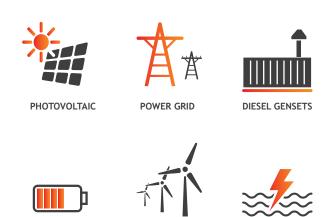


The EFASOLAR Hybrid System is optimized for joint operation with the Efacec solar inverters and bi-directional battery inverters, defining appropriated power production based on gensets operation profile and load measurements.

With its control strategy, the **EFASOLAR Hybrid Controller** assures enough spinning reserve on gensets to ensure system reaction capability and stability to sudden variations in loads or in PV power, allowing a reliable load supply.

The EFASOLAR Hybrid Controller implements a smart control concept, with flexible and adaptative plug and play installation. This controller maximizes renewable generation while maintaining a stable network operation, considerably reducing fuel/gas consumptions thus securing a short payback period.

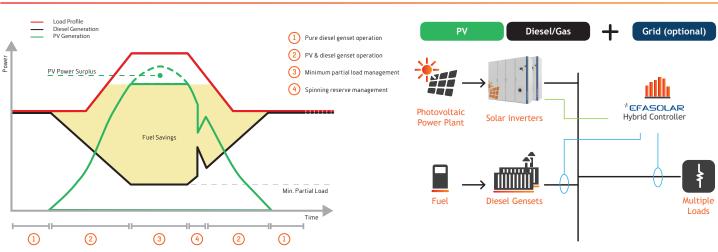
This platform allows the integration on different system topologies/ configurations with one or more generators of each source. As an example, two hybrid systems operation topology are illustrated below.



HYDRO

ENERGY STORAGE

PV + Diesel System



PV + Diesel + Storage System

