

Microgrid Solutions

Island
Microgrids

Industrial Park
Microgrids

Campus
Microgrids

Hybrid
Microgrids

Off-grid
Systems

Core Products

- Island Microgrids – autonomous supply for islands and remote communities
- Industrial Park Microgrids – peak management and business continuity for manufacturing
- Campus Microgrids
- Off-grid Systems – standalone supply with no grid connection
- Hybrid Microgrids – for a combinations of power sources such as wind, solar, energy storage and diesel
- Microgrid controllers and Energy Management Systems (EMS)
- Digital platform for real-time microgrid monitoring, dispatch and management

Capabilities

- Load, resource and resilience assessment
- Microgrid architecture and control design
- Energy storage integration, load integration, grid interfacing and islanding transition control
- EMS and power management strategy configuration
- Equipment supply, installation and certification
- System testing, islanding tests and commissioning
- Operation & Maintenance services

A microgrid is a self-contained electrical network that can operate either connected to the utility grid, independently in "island" mode or hybrid mode. This capability allows users to generate electricity on-site and use it when needed.

By incorporating distributed energy resources, a microgrid can help save on energy costs by sending excess electricity back to the grid during peak demand. This improves reliability and optimises energy management.

Terra Sol provides turnkey microgrid solutions, from controllers and energy management software to integration of power generation, energy storage and equipment supply.



Autonomous

Resilient

Sustainable