

# SOLAR PV POWER FIXED OR MOBILE CONTAINERS



# MODULAR HYBRID ENERGY CONTAINERS



## DESIGN AND BUILD

Increase the amount of renewable energy in your local grid. Easily expand the system in the future to meet a growing energy demand. Enviroearth solar power plants are based on over a decade of system know-how. The company conducts design, construction and onsite installation.

We customize modular hybrid energy containers which are designed to work as **stand-alone** and can be **easily expanded to larger capacity** when needed. The containerized concept makes them **transportable** and they are up and running in no time. Whether as back-up, full time off grid or connected to grid, the applications are numerous.

### Main features

#### Container:

- 8, 10 or 20 ft standard shipping container with optional sprayed on foam insulation from the inside and optional soundproofing enclosure for the engine.

#### Solar Photovoltaic System:

- 0.6 kWp to 10.8 kWp folding Solar Photovoltaic System on adjustable support structure installed on roof
- MPPT Solar Charge Controller

#### Battery Storage and Inverter/Charger:

- 24 or 48V (VRLA or OPzV) battery bank customized sized

- automatically ventilated and insulated battery bank enclosure
- Inverter/Charger plus remote control
- main DC breaker panel

#### Switchgear:

- manual or automatic transfer switch
- breaker panel
- energy monitoring system with wireless remote display

#### Earthing system

Energy Containers are individual customized and engineered to your specific energy needs.

#### Turnkey PV/Power diesel generator Hybrid power solutions

Where high reliability power supply is required, **hybrid PV/diesel system** is the most suitable solution. PV system will reduce your total power generation costs (LCOE) by decreasing fossil fuel consumption and carbon dioxide emissions. Enviroearth develop innovative technologies characterized by **high energy yields**, **reliable operation** in diverse climates, and **low raw material consumption**.

#### Built-in

#### Diesel Generator Unit for back-up:

- 6.8 to 52kW diesel generator 120/240VAC single phase or three phase,
- With integrated tank system for diesel

### Key Advantages

- Modular according power to generate
- Easy to transport (shipping container)
- Stand-alone photovoltaic power
- Optional built-in back-up diesel generator
- Design for harsh environment
- Simple to operate

### Applications

- Military
- Mining Camps
- Humanitarian, NGO's
- Disaster Relief
- Remote hotel resorts, Remote areas

### Our Added Value

- Used to deliver and train users to the world remotest destinations (Tristan da Cunha, St Helena, Easter Island, Kiribati...)
- 15-years project management experience in complex international areas: Kenya, Ivory Coast, Papua New-Guinea, Paraguay, archipelago of Juan Fernandez...
- Logistic management related to isolated and severe environmental constraints