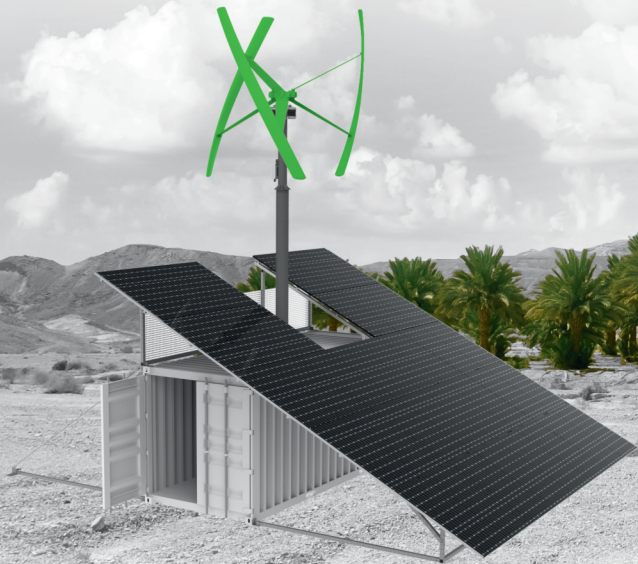


me.co

ELECTRIC LLC

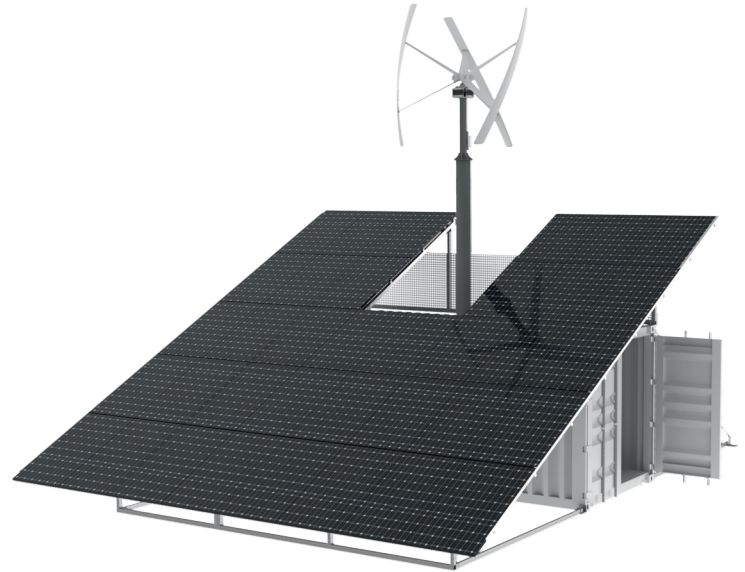
■ consulting ● design ► distribution of electrical systems



greenMOBILEgenerator

Key features

- Ready to use mobile power system
- Uninterrupted clean power generation
- Modular system - individually adjustable
- Multiple versions for different requirements
- Power output from 10 kWp up to 30 kWp
- Grid-connected or off-grid version
- All components stored in the container
- Easy to transport, erect and relocate
- Quality MADE IN GERMANY



The greenMOBILEgenerator

The greenMOBILEgenerator is a standalone hybrid power system, using solar and wind energy to deliver uninterrupted clean energy. The system is available for grid-connected or off-grid operations and offers a variety of different applications. In standard version, the modular containerized system has a peak power output of 10 kWp and an average power output of 40 kWh per day, depending on its location. Using additional ground-mounted photovoltaic panels, the power output can be easily increased up to 30 kWp.

The standard version of the greenMOBILEgenerator consists of a 20 ft. ISO container, 10 kWp photovoltaic panels, inverters, a central switchboard including monitoring and remote control, as well as outgoing feeders. In hybrid version the PV system is supported by a 2 kWp patented small-scale wind power system. Each version can be equipped with a modular, state-of-the-art battery storage system. The LiFePO_4 battery system has a lifetime of more than 8.000 cycles and its capacity can be increased in steps of 1.2 kWh individually. Together with a highly efficient 5.0 kW diesel generator, we can assure security of supply for critical applications, even during nighttime or bad weather conditions. The diesel generator is completely integrated into the main control system and starts automatically when required.

The container - Heart of the system

The interior of the container can be seen as the heart of the greenMOBILEgenerator. All required components, such as inverters, monitoring system, or the main distribution board are factory installed and ready to use. Only cables coming from the photovoltaic or the wind power system have to be connected. All system parts and components are perfectly matched to one another and work accurately and reliably, even in demanding environments. For this reason, we offer a 10 years warranty for the PV system and 5 years warranty for inverters and the main distribution board. The PV mounting system and the wind turbine can be mounted quickly and easily to the appropriate points on the container. The substructure of the PV panels also functions as a supporting structure for the entire container. Therefore additional soil compaction is not necessary. A level surface is sufficient enough.



Technical specifications

Container size	20"
PV module capacity	10 kWp
Wind power capacity	2 kWp
Average daily output	40 kWh
Battery capacity (optionally)	4,8 kWh individually expandable
Diesel generator (optionally)	5 kW



The combination of PV panels and our patented small-scale wind power system results in several advantages over "PV only" systems:

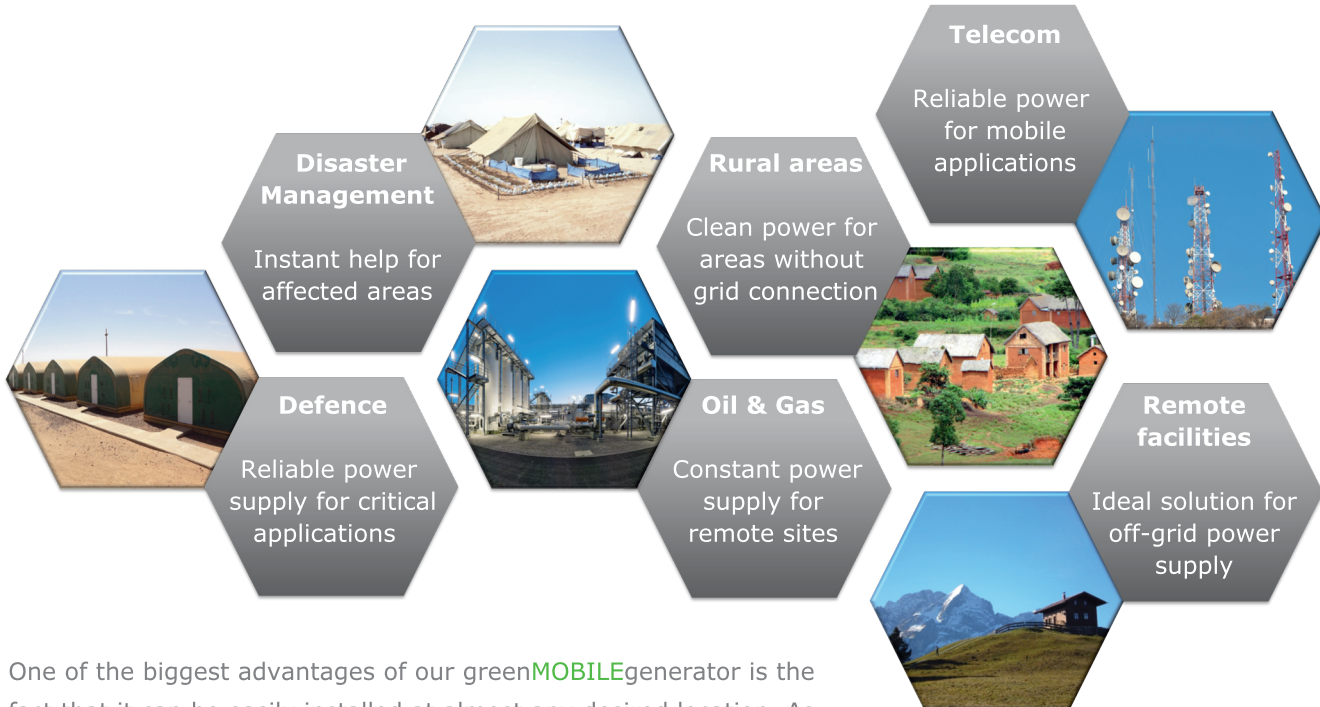
- Power generation during nighttime
 - Power generation during bad weather conditions
 - Support for PV system during daytime
-

Key features of the wind power system:

- Very low start-up speed of 2 m/s
- Independent from wind direction
- Extremely silent
- Quick and easy installation
- Quality MADE IN GERMANY



Variety of applications



One of the biggest advantages of our greenMOBILEgenerator is the fact that it can be easily installed at almost any desired location. As all the required components are stored in the container, set-up time can be reduced to a minimum and relocation becomes very easy. Once the system is installed, the greenMOBILEgenerator supplies uninterrupted clean energy with low maintenance requirements.

System advantages



**10 - 30 kWp
PV System**



**2 kWp vertical
wind power system**



**Modular battery
storage system**



**Diesel generator incl.
UPS function**



**Intelligent control system
incl. remote control**



**All components stored in the
container upon delivery**



Easy transportation



Quick installation



No CO² emissions
(without diesel generator)



No fuel costs
(without diesel generator)

MECO ELECTRIC LLC

Khalifa City A, Building No. C8
P.O.Box 107 427
Abu Dhabi, U.A.E.

Phone +971 2 5593474

Fax +971 2 5562126

info@meco-llc.com

www.meco-llc.com