



MICROGRID

SMARTGRID

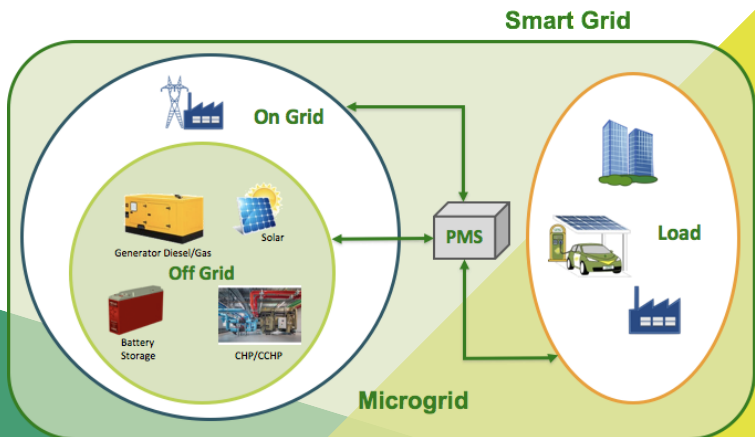
MANAGE YOUR ENERGY TODAY



GRID
ELECTRICAL SOLUTIONS

A MICROGRID is a set of distributed energy resources, traditional or renewable, operating in a coordinated manner as a single controllable unit that provides energy, electrical power, heat and/or cooling within a defined area. Depending on the overall strategy and needs of the client, microgrids provide the flexibility to be connected to the utility grid (ON GRID) or be disconnected and operate in complete isolation (OFF GRID). Microgrids contain a Power Management System (PMS) capable of administering in the most efficient way the use of your generation resources.

Smart Microgrid can be seen as the evolution of current electrical networks, integrating new advances in communications and information technologies into existing or new infrastructure of electrical systems in order to carry out monitoring, control and “smart” automatic actions over the system.



ADVANTAGES



- **Reliable and Flexible:** Designed to provide 24/7 uninterrupted power and load balancing
- **Resiliency:** Microgrids can recover faster in the event of any disruption to power
- **Energy cost reduction:** Using the appropriate software, operators can optimize the power injected into the system based on demand criteria, utility price, energy production price, and other factors.
- **Energy efficiency:** Commercial and industrial microgrid appliance is a complete, all-in-one mechanical solution that not only reduces energy expense but also enables reliable application of renewables and turns normally wasted ambient heat into secure, clean, and controllable energy.
- **More control:** As a user, you no longer just consume energy, you also produce it and control it
- **Incorporates green energy:** Reduce carbon emissions.
- **More secure:** The distributed generation, close to the loads, and the small dimension of the sources make the microgrids easier to keep safe, both physically and from cyber attacks
- **Island mode operation:** They can operate connected to the public distribution network as isolated from it.

1000 Brickell Ave., Suite 715
Miami - FL 33131-USA
Phone: +1-305-215-5970
info@gridelectsolutions.com

