

A New Level of Energy Independence & Sustainability



Energy Independence. More Choice. Less Waste.

Microgrids: Innovation at Every Level

Energy Professionals partners with one of the world's premier support companies to design and manage complete microgrid implementations that give you the ultimate in energy independence.

What Is a Microgrid

The microgrid is a small-scale power supply network that is designed to provide power for a small community with a local power generation unit. A microgrid can connect and disconnect from the national grid. This enables it to operate in both connected or in island-mode, achieving complete energy independence.

Microgrids can have one or more power sources within them, which are usually relatively small in size. It can also have some means to store energy, such as batteries. The plants will serve nearby buildings by way of wires and pipes connecting them. The entire system communicates and operates by way of intelligent energy management systems.






Microgrids are often less polluting than grid power because a microgrid is usually fueled by renewable energy or combined heat and power (CHP). CHP is a highly efficient technology that reuses wasted heat created, transforming the wasted heat into usable energy for a building or factory in the microgrid. Using CHP can offer customers not only electricity, but also heat, steam and hot water.

Microgrids are also more efficient because their energy is created close to where it is used. The power does not have to travel miles and miles across large transmission lines.

*see picture on next page



Why a Microgrid?

-  Complete control of your energy
-  Drastically reduced costs
-  Total reliability
-  Ultimate energy independence
-  Renewable energy

Industries We Serve

Microgrids fit anyone who wants complete energy control, reliability and independence.

Common industries served include:

- Universities
- Large Church Campuses
- Manufacturers
- Corporate Headquarters
- Islands
- Small Cities or Towns
- Government



A Real Microgrid

The University of Texas has one of the largest microgrids in the U.S. The facility features a CHP plant fueled by natural gas that provides 135 Megawatt and 1.2 million pounds per hour of steam generation. The system also includes 45K tons of chilled water capacity, 4 million gallon thermal energy storage tank.

Other Core Solutions:

- Demand Response
- Backup Generation & Batteries
- Energy Procurement
- Solar & Renewable Energy Solutions
- Energy Efficiency
- Bill Auditing & Expense Management
- HVAC New Life Restoration
- Energy Procurement



Necker Island

Energy Professionals microgrid technology partner installed a renewable energy driven microgrid for Necker Island.

A microgrid designed with a combination of solar, wind and energy storage technologies; drastically reducing the island's diesel fuel consumption and driving down energy costs.

Contact



1 (844) 674-5465



info@energyprofessionals.com



www.energyprofessionals.com

The Energy Professionals Difference



Founded in 1999, Energy Professionals is one of North America's leading energy consultants working with commercial and industrial customers to reduce and control their energy budgets. We build client-specific, comprehensive energy strategies that factor in our clients' goals and objectives. Utilizing our extensive network of suppliers, energy efficiency experts and renewable energy partners, we bring the most effective, efficient and innovative technologies to the table. We offer both focused solutions to a specific issue and broad plans to address long-term growth, paving the way for energy independence, providing more choice and less waste.



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