

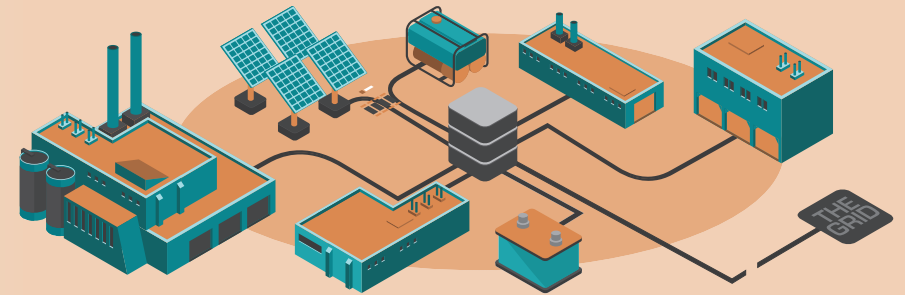
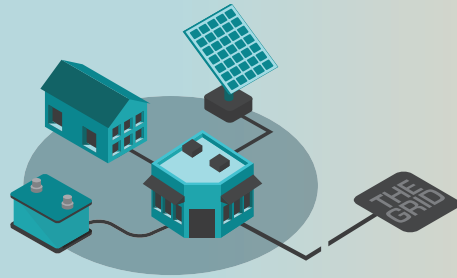
A Spectrum of MICROGRIDS

CLASSIFYING BASIC VERSUS ADVANCED SYSTEMS

While some microgrids can be as straightforward as solar + energy storage systems, **advanced microgrids require experienced integrators to make powerful systems reliable and easy to use.** Knowing the differences between basic and advanced microgrids is helpful when considering your specific needs.

BASIC MICROGRID

ADVANCED MICROGRID



Islanding



Able to island from the grid and reconnect to it

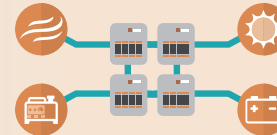


Able to island from the grid and reconnect to it
Capable of avoiding power disruption while transitioning between grid-connected and island modes

Generation Sources

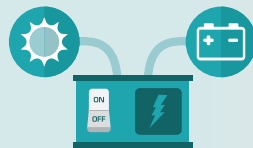


Includes 1-2 generation sources
 Supported by common backup sources, such as a diesel generator or solar + energy storage



Includes 3 or more generation sources
 Supported by a variety of sources, such as solar, wind turbines, energy storage, and diesel or natural gas generators, integrated together by microgrid controls

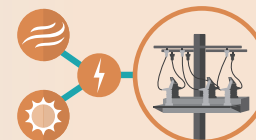
Controls



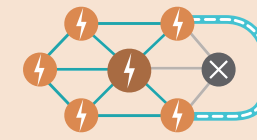
Has simple controls, such as inverters or other devices limited to turning generation sources on and off



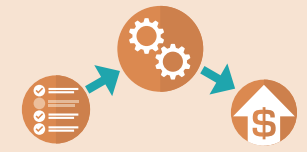
Performs a narrow range of operations, such as switching between grid and battery power



Can control complex scenarios, such as managing switchgear and loads in addition to generation sources



Seamless contingency handling, such as riding through sudden equipment disruption



Performs a variety of use cases based on operator preferences, such as economic optimization and storm preparation

Scale



Serves smaller loads, such as a few buildings in a remote town



Serves complex power user campuses, such as industrial plants, universities, and military bases



S&C has unparalleled expertise in successful microgrid implementation.

Let S&C help evaluate your power-related challenges so we can recommend a complete, effective solution.

CONTACT US »
sandc.com/microgrids