Microgrid/Energy storage feasibility studies Practical and technical considerations to advance power resiliency



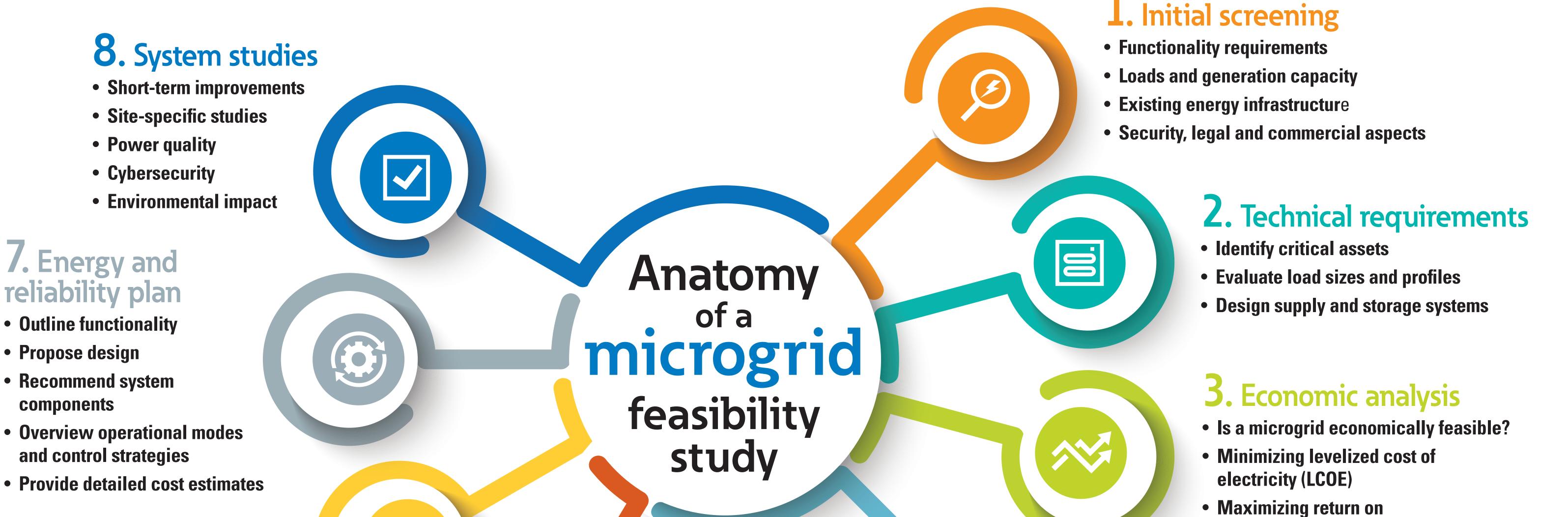
It is well known that microgrids can provide a solution for:

- Unexpected power loss
- Balancing spikes in energy demand

However, without a "one size fits all solution," how do you properly design and size a microgrid?

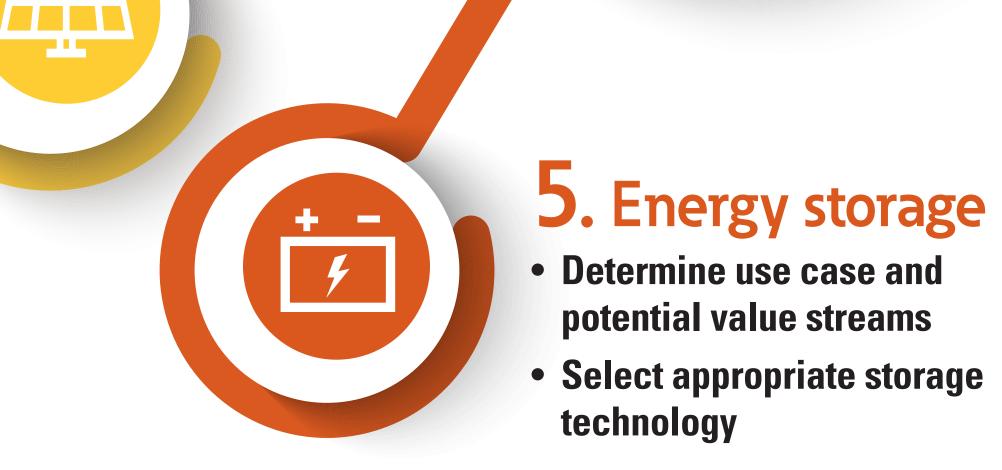
A "feasibility study" will answer whether or not a microgrid makes sense, and what configurations and components are needed to meet your specific needs.

- Optimizing energy usage and reliability
- Reducing operating costs and carbon emissions



. Renewable integration

- Selected based on project goals
- Evaluate existing and future sources



investment (ROI)

4. Documentation

- Utility requirements
- **Permits** Interconnection application
- SCADA communications
 - Incentives

• Metering contracts

• Ownership

The virtual microgrid advantage

How can you be sure the microgrid will perform as intended before you cut the ribbon on the project?

- The last compelling aspect of a feasibility study is the ability to see how the system functions before ground is broken on the project.
- This virtual microgrid provides insights on the feasibility, design and application in a simulated environment.

Benefits of microgrid simulation

- More precise planning and management of the microgrid system
- Understand the system as if the assets and devices were already connected
- Develop the system's load profile and utility rate structures
- Enable pre-engineering and system configuration and optimization to save time
- Complete projects more quickly and successfully, with confidence they are optimized out of the gate



Powering Business Worldwide

Through a commitment to project success, Eaton is an experienced partner that is dedicated to making microgrids work, with successful deployment of systems that meet and go beyond your specific needs.



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