

Prioritization & Implementation



Southern 360 Services

Benchmarking

Prioritization

Implementation

Southern 360 helps generate over \$1M in annual savings and improve resilience for an Arkansas food producer by prioritizing and implementing a sustainable microgrid solution

For a major Arkansas food and agriculture producer and distributor, enhancing reliability was a critical mandate. The 360,000 square foot protein facility serves customers in 70 countries and is hub for regional poultry producers. In the event of a power outage, multiple suppliers would be impacted.

On top of reliability concerns, rising electricity costs had made this customer to wonder if there might be an alternative energy solution.

Leveraging Southern 360's process and energy expertise to capture cost and energy savings

Southern 360 first benchmarked this customer's energy use and identified areas for optimization. From that analysis, Southern recommended a microgrid as the project with the highest impact and ROI to achieve reliability and cost effectiveness goals. Southern then supported the customer with implementation services, working with Southern Company's PowerSecure to install a custom microgrid.

A Sustainable Microgrid. PowerSecure designed, engineered and installed a fully-integrated 10 MW microgrid, using ultra energy-efficient, low carbon emission Tier 4 Final gensets with built-in redundancy and a NexGear switchgear system. By simplifying the implementation process, Southern allowed the customer to continue operations with minimal disruption.

Improved Reliability and Resilience. PowerSecure worked with the local utility to interconnect with the grid and to be able to provide 100% power to the facility in island mode. This fully-integrated system with redundancy offered the customer ultra-high reliability to achieve its mandate. As part of the reliability and resilience solution, PowerSecure provides ongoing monitoring services to ensure the system is running at all times.

Economic Value. The microgrid was outfitted with peak-shaving capabilities to allow the plant to run cost effectively during the summer's hottest days. PowerSecure's energy management services switches the facility to microgrid power when grid power is costly. As a result, the facility's energy saving exceeds \$1 million per year.

