

Glasgow Electric Plant Board and Sunverge Integrate Energy Storage to Reduce Peak Demand



The Glasgow Electric Plant Board installed Sunverge energy storage units in 165 existing homes and businesses in Glasgow, KY (pop. 14,000). The devices capture power from the electric grid when demand and cost are low, and release that power to customers when demand and costs are high, reducing the need to supply additional power from traditional power plants.

Project Goals:

- Reduce peak demand by 25% during demand response events, enabling customers to offset high demand charges.
- Incorporate energy storage systems into a new energy efficiency program that encourages customers to reduce their usage and save energy
- Meet Federal and State emission standards
- Quantify the benefits of integrating Sunverge systems with smart thermostats and tankless water heaters to improve overall energy efficiency

Project Details:

Location:

Glasgow, Kentucky

Product:

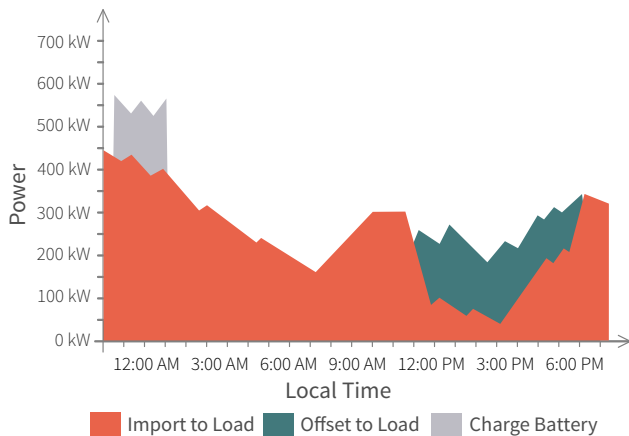
Sunverge energy storage systems on 165 homes and businesses

Project Start Date:

August 7th, 2015

Integrated Energy Storage as a Key Component in Demand Response Management

To improve system reliability and load factor, the Glasgow EPB has taken a unique and innovative approach to customer-sited energy storage. Taking advantage of the utility's dual role as the broadband supplier to customers as well as their electricity provider, the Glasgow EPB has focused on making both the grid and the home more intelligent and efficient. The Glasgow EPB chose a subset of its residential customers to participate in a three-year project to greatly improve demand response using Sunverge energy storage systems.



During a summer peak event, Sunverge units reduced demand by 51%. The energy storage systems charge from the grid at night when wholesale power is inexpensive, and power the customer sites during Glasgow EPB's anticipated coincident peak in the evening.

Connecting Energy Storage to the Local Community

Glasgow EPB partnered with the University of Louisville to research intelligent energy storage products and identified Sunverge as the only product on the market to meet the municipal utility's needs. With the leadership of Dr. Michael McIntyre, the University helped to ensure that Glasgow EPB was using the Sunverge technology to its full potential with the introduction of a new coincident peak tariff on January 1st, 2016.

"The technology from Sunverge Energy helps us achieve our goals and continue to evolve the way we serve our customers."

—William J. Ray, CEO, Glasgow EPB

"A major key to success is to design a system that combines intelligent components with customer-sited, utility-grade storage."

—Dr. Michael McIntyre, University of Louisville

Benefits of intelligent energy storage for rural municipal utilities:



Respond to Flat or Declining kWh Sales

Reduce wholesale kWh costs and help to restore declining net income by using energy storage to improve load factors and significantly reduce wholesale energy costs.



Establish Critical Infrastructure

Maintain control of the power on the grid in the event of a natural disaster. The Sunverge patented UL-Certified enclosure is NEMA 3R indoor and outdoor rated to provide the most durable, reliable design.



Increase Member Engagement

Use energy storage as a tool to improve engagement with customers who are increasingly interested in smart home devices that provide benefits to the local community as well as the planet.

To learn more, contact us:

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