

# Project Profile

Hospital

TERAWATT iDR CASE STUDY

Large Facility



## Project Highlights – Sacred Heart Hospital

Annual kWh off-set: 589,632  
Annual CO2 tons off-set: 425  
Annual cost-savings: \$35,791



## Quality and Reliability, Efficient Electricity Usage

St. Mary's Sacred Heart Hospital, located in Lavonia GA, is proud to serve the people of Franklin, Hart, Stephens and beyond by providing mission-driven, high-quality healthcare. A wide range of high quality services is offered includes surgical services, a mother/baby unit, critical care, and 24/7 emergency care. In partnership with high qualified medical staff that enables specialty services close to home. Plus, being part of St. Mary's Health Care System, access to even higher levels of care is provided when needed. Sacred Heart Hospital strives to provide the most complete range of locally delivered health care possible, from emergency cardiac and stroke care, to an outstanding family birth center, to extended rehabilitation after an accident or illness. Looking for ways to cut operating costs, European Power Management Systems was appointed to reduce facility's electricity bill by optimizing the power demand. The customized energy efficiency project reduced the annual electricity bill over \$35,791 while real-time monitoring of load profile and power usage.

## Energy Savings

The new generation of the advanced Terawatt intelligent Demand Response Technology provides a fully automated 24-hour real-time power optimization based on a customized, proprietary algorithm. Terawatt iDR Systems leverage its proprietary programming consisting of the planning, implementing, monitoring and optimizing the activity of facilities electrical network in guaranteed projects. It is a proven solution designed to effectively adjust and lower the pattern of electricity usage, reducing waste and identifying inefficient utilization of resources by interfacing selective loads of electrical equipment, fine-tuning inherent performance to the operation real needs yet always respecting the operation design intent, production safety and systems reliability. The new tailored electricity load profile shapes the active instant power by adjusting the coefficient of simultaneity on demand thus lowering electrical consumption, which equates to energy use-kWh and peak demand-kW cost-savings.

## Key Benefits

Energy expenditure is now coherent with facilities load profile and characteristic electricity costs attuned with facility's operational requirements, tailored year round in a 24/7 permanent, **fully automated** optimization process with remote access, real-time carbon emissions tracking, detailed monthly reporting of measured and verified results: a proven and reliable energy conservation solution.

## Sustainability

The project energy savings results in an equivalent of reducing 425 tons of carbon dioxide - CO2 the equivalent of planting 94 acres of trees or reducing the use of 48,067 gallons of gasoline.

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