

# Project Profile

SPRING 2015

TERAWATT iDR CASE STUDY

SMALL HOSPITAL



## Project Highlights

Annual kWh off-set: **553,775**  
Annual CO2 tons off-set: **300**  
Annual cost-savings: **\$23,900**



## Quality and Reliability, Efficient Electricity Usage

The Good Samaritan Hospital is a 25-bed critical access hospital serving the greater Greene County area. A Joint Commission accredited, not-for-profit Catholic hospital guided by St. Mary's mission to be a compassionate healing presence in the communities it serves. Good Samaritan Hospital provides emergency care, inpatient care, surgical services, swing beds, and outpatient services such as diagnostic imaging, rehabilitation and a sleep disorders center. The Hospital was recently named to the Georgia Hospital Association-Partnership for Health and Accountability Core Measures Quality Honor Roll, Trustee Category.

Looking for ways to cut operating expenses, the hospital turned to European Power Management Systems to reduce their electricity bill by optimizing the power demand. The customized energy efficiency project reduced the Hospital's annual electricity bill over \$23,900 and in addition to lowering their power bill can now monitor energy waste and carbon footprint reduction.

## Energy Savings

The new generation of the advanced iDR intelligent Demand Response Technology provides a fully automated 24-hour real-time power optimization based on a customized, proprietary algorithm. Terawatt Systems leverages its proprietary programming consisting of the planning, implementing, monitoring and optimizing the activity of facilities electrical network. It is a **proven** and **guaranteed** solution designed to effectively adjust and lower the pattern of electricity usage, reducing waste and identifying inefficient utilization of resources by interfacing selective loads or 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 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

An energy expenditure coherent with facilities energy profile and characteristic electricity costs attuned with the operational requirements, tailored year round in a 24/7 permanent and **fully automated** optimization, with remote access, real-time carbon emissions tracking, detailed reporting of measured and verified results: a reliable energy conservation solution.

## Sustainability

The project energy savings results in an equivalent of reducing 399 tons of carbon dioxide - CO2 the equivalent of planting 89 acres of trees or reducing the use of 45,144 gallons of gasoline.



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