

Project Profile

TERAWATT IDR CASE STUDY

LARGE HOSPITAL



Project Highlights
Annual KWH off-set: 2,300,000
Annual CO2 tons off-set: 1,656
Savings: \$ 110,000 Annually

"EUPMS has done an excellent job of managing our electricity consumption and power demand. We are very pleased with the savings that we have achieved thus far."

Thomas Kruer
Director of Engineering
St. Mary's Hospital, Athens, GA
Catholic Health East/Trinity Health System



Quality and Reliability, Efficient Electricity Usage

St. Mary's Hospital, located in Athens, Georgia, is a member of Catholic Health East/Trinity Health System and is ranked among the top ten hospitals in the State. This leading hospital in Northeast Georgia was named Large Hospital of the Year in 2010 by the Georgia Alliance of Community Hospitals, and in 2011 received the Circle of Life Award Citation of Honor, by the American Hospital Association.

Looking for ways to cut operating expenses, St. Mary's turned to European Power Management Systems, LLC to reduce their electricity bill by optimizing the power demand and rationalize the increasing costs in electricity. The customized energy efficiency project reduced the Hospital's total electrical bill by an average of 15%, and in addition to lowering their power bill, St. Mary's can now monitor their energy usage and profile in real-time, identifying unnecessary electrical loads that can be avoided, enhancing their dynamic approach to energy conservation policies.

Energy Savings

The new generation and state-of-the-art Terawatt intelligent Demand Response or iDR Technology provides a fully automated 24-hour demand response (DR) optimization based on a customized, proprietary load algorithm. Terawatt's Synapse leverages its proprietary iDR programming consisting of the planning, implementing, monitoring and optimization of the activity of a private electrical network. It is designed to effectively adjust and lower the level and pattern of electricity usage, reducing waste and identifying inefficient utilization of resources by interfacing with selective electrical equipment, fine-tuning their performance to the real needs to meet the design intent. The new customized load profile shapes the power demand integration based on an adapted coefficient of simultaneity, thus lowering electrical consumption, which equates to kWh savings.

Key Benefits

An energy profile coherent with the operation, electricity costs attuned

with the Hospital requirements, customized year round permanent iDR optimization, remote access, real-time energy and carbon emissions tracking, detailed reporting of measured and verified results, reliable energy conservation solution.

Sustainability

The project energy savings results in an equivalent of reducing 1,656 tons of carbon dioxide - CO2 or can be viewed as the equivalent of planting 368 acres of trees, removing over 304 cars from our roadways or reducing the use of 187,496 gallons of gasoline.


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