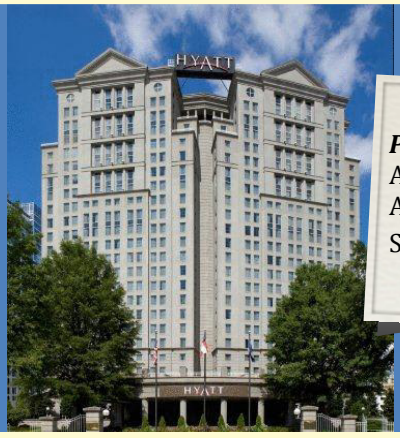
Project Profile

Intelligent Demand Response Case Study LARGE HOTEL



Project Highlights
Annual KWH off-set 2,262,934
Annual CO2 tons off-set 1,629
Savings $ 70,000 Annually

"The project went seamless, Paul and Edmundo were excellent to work with. It's not that often that a project goes as well as this project went."

Wes Shirley
Director of Engineering
Grand Hyatt Atlanta in Buckhead

Quality and Reliability, Efficient Electricity Usage

Grand Hyatt Atlanta, Georgia, is an award winning hotel, rated with four diamonds by AAA Rating, offering 439 Sleeping Rooms and more than 30,000 Sq Ft. of Meeting Room Space. This distinctive hotel is set within the upscale uptown neighborhood of Buckhead, Atlanta's most prestigious and fashionable area, combines classic elegance and unsurpassed service to offer discerning guests Atlanta's legendary Southern hospitality. Spacious, renovated guestrooms include irresistible Hyatt Grand BedsTM, state-of-the-art Internet access, and sleek flat screen HDTVs with Roomlinx interactive iTV. Looking for ways to cut operating expenses, The Grand Hyatt at Buckhead turned to Terawatt iDR technology to reduce their electricity bill by optimizing the power demand and rationalize the increasing costs in electricity. The customized energy efficiency project reduced the Hotel's total electrical bill by an average of 9.5%. In addition to lowering their power bill, Grand Hyatt can now real-time monitor their electricity usage and load profile, identifying unnecessary electrical loads, enhancing their dynamic approach to energy conservation policies and actively reducing the carbon footprint.

Energy Savings

The new generation and state-of-the-art intelligent Demand Side Management or iDR technology provides a fully automated 24-hour intelligent Demand Response (iDR) optimization based on a customized, proprietary load algorithm. Terawatt's Synapse expertise leverages its proprietary and innovative programming by real-time monitoring and optimizing 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 operation real needs, always meeting their design intent. The new customized load profile shapes the power demand integration based on an adapted coefficient of simultaneity, thus lowering both power peak (kW) and electrical consumption (kWh), generating cost effective results by lowering the utility bill and regulating the load shape of the electrical operation.

Key Benefits

An energy profile coherent with the operation, electricity costs attuned with the Hotel requirements, customized year round permanent optimization, remote access by TCP/IP protocol, real-time energy and carbon emissions tracking, detailed reporting of measured verified results and reliable energy conservation coverage.

Sustainability

The project energy savings 2,262,934 kWH results in an equivalent of reducing 1,629 tons of carbon dioxide - CO2 or can be viewed as the equivalent of planting 362 acres of trees, removing over 299 cars from our roadways or reducing the use of 184,474 gallons of gasoline.

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