

Project Profile

Textile Industry

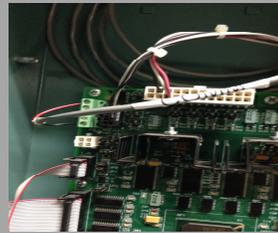
TERAWATT IDR CASE STUDY

Large Plant



Project Highlights – Hickory Spinners Plant

Annual kWh off-set: **498,927**
Annual CO2 tons off-set: **359**
Annual cost-savings: **\$32,029**



Quality and Reliability, Efficient Electricity Usage

Shuford Yarns LLC traces its origins to 1880 when Shuford Mills, Inc. was formed. Today, although the Company operates its spun yarns plants independent of Shuford Mills, keeping the core yarn manufacturing principles and techniques which made the Shuford name synonymous with quality, value and service throughout its long history. With more than 127 years of tradition and excellence Shuford Yarns continues to deliver excellence to the market place, building loyalty and confidence by providing unrivaled, hands-on service to all customers Shuford Yarns is a World Class Manufacturer of Yarns that consistently provides exemplary service and quality products in a timely fashion.

Looking for ways to cut operating expenses, European Power Management Systems was appointed to reduce Plant's electricity bill by optimizing the power demand. The customized energy efficiency project reduced the Plant's annual electricity bill over \$32,029 while real-time monitoring 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 Plant'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 359 tons of carbon dioxide - CO2 the equivalent of planting 80 acres of trees or reducing the use of 40,065 gallons of gasoline.

EU
POWER MANAGEMENT SYSTEMS LLC

EU Power Management Systems LLC
2870 Pharr Court South, Suite 707
Atlanta, GA 30305 - 404.814-016
info@eupms.com www.eupms.com