



EUPMS helping textile companies reduce energy costs

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ATLANTA – European Power Management Systems (EUPMS), LLC, based here, has been actively assisting textile companies and their suppliers reduce their electrical bills by optimizing power demand, according to a company official.

EUPMS has supplied services to Buhler Quality Yarns Corp. in Jefferson, Ga.; Inman Mills' Ramey Plant in Enoree, S.C.; Greenwood Mills' Harris Plant in Greenwood, S.C.; and Shuford Yarns' Hickory Spinners' Plant in Hickory, N.C., and its Dudley Shoals Plant in Granite Falls, N.C. It also has been approved to begin a project at Conitex Sonoco in Gastonia, N.C., according to Edmundo Duarte, MSc., CEM®, IEM, president & CEO of EUPMS.

The company also has clients in the health care and hotel industries.

EUPMS is a leading provider of intelligent demand response technology with more than four decades of experience in sustainable, tailored electricity cost-reduction programs. The company conducts detailed assessments of its program delivery, from design to implementation, in order to identify bottlenecks, efficiencies, what worked, what did not work, constraints and potential improvements. Services include independent verification of impacts (e.g. energy and demand savings) and co-benefits (e.g. greenhouse gas emissions, load diagrams, power-usage profile and real-time performance reporting).

"EUPMS is focused on a company's success, promoting green technologies and new energy management standards," Duarte said.

Reshaping a facility's energy profile

Extensive experience with all aspects of Intelligent Demand Response programs enables EUPMS to proactively assist industrial plants, hotels, hospitals and other facilities that seek to reduce and manage their electricity costs, operate effectively and efficiently, leverage the latest technologies and mitigate the uncertainty and risk in today's energy market, Duarte said. Intelligent Demand Response works 24 hours, 365 days on a fully personalized profile, developed expressly for the facility electric load base, he added.



Edmundo Duarte

A new, fully tailored electric load diagram can reshape a facility's energy profile by actively managing selected loads on a 24/7 continuous basis. Selected electric loads are real-time optimized in an aggregated manner that minimizes the coefficient of simultaneity (energy demand), thus reducing power peak (kW) and consumption (kWh) without affecting comfort or design intent. The power optimization that occurs in each integration period (utility measurement – usually 30 minutes thus 48 times per day) and for any kind of utility rate provides an exclusive load-shape profile attuned with the location's electric requirements, saving wasted energy, effectively reducing costs and carbon footprint, according to Duarte.

Usual project profiles optimize selected electric loads: motors with VFD and air handler units equipped with variable frequency drives, chillers, air compressors, rooftop units, bailers, resistive equipment (heating systems, kitchen equipment, etc.), cooling storage multi-compressors and other designated loads.

This awarded patented technology is a state-of-the art hardware and software next generation solution for a 24/7 real-time made-to-measure electric demand response management for end-use networks, Duarte said. It's a zero discomfort solution that focuses on fine-tuning the electricity consumption patterns of customers, using a personalized priority factor for different candidate loads, guaranteeing continuously energy efficiency and successfully optimizing allocation of power – the right power, at the right time for the right equipment.

This intelligent energy conservation solution targets commercial and industrial electricity users. And it is developed both for demand (kW) and consumption (Kwh) reduction – a 24/7 real-time entirely automated solution that does not require human interface. However, the system is accessible either by remote access or locally through a large color touch screen with a security passcode where the user can observe operation in real-time and interface with equipment if desired.

Overall capabilities

The overall capabilities of the Terawatt intelligent Demand Response, Duarte said, include:

- Proven technology: low investment, reduces energy costs, fast ROI, helps improve G.O. profit;
- Fully automated system working 24/7 in a tailor-made energy optimization profile;
- Detailed monthly performance-tracking reporting with real-time hourly optimization results;
- Auto-regulated for several personalized input protocols: relative humidity/temperature levels;
- System remote/local access password protected interface on 15" color touch screen monitor;
- Interface option with Distributed Generation platforms, EMS, Modbus and Scada protocols;
- Real-time recording and monitoring of all type of fluids (i.e. temperature, water, gas, etc.);
- Smart Grid compatible with fully automated protocols;
- Real-time interface on status by remote access (TCP/IP / Modem) with GSM alarm activation;
- Detects and eliminates energy waste, helping to meet corporate sustainability goals on emissions;
- Automated ATS commutation utility grid/emergency-monitoring and optimization for both;
- Helps provide compliance with energy regulations and to negotiate rate plans with utilities; and
- Enhanced public image and social responsibility through Key Performance Technology (KPT).

About EUPMS

EU Power Management Systems LLC is an exclusive national provider of a state-of-the-art, proven technology. EUPMS TERAWATT IDR is a cost-effective and reliable way to reduce electricity consumption without compromising design intent, comfort or quality of global operation.

Covering the U.S. and the Caribbean, EUPMS offers customized energy systems and assists clients with the implementation of such advanced technologies, with emphasis on intelligent demand response expertise. All research and enhancements are done by distinguished European manufacturers and experienced professionals who guarantee highly developed and leading-edge, fully automated energy efficient solutions.

EUPMS works on fully tailored enterprise-wide energy saving projects ranging from small to large-scale commercial and industrial facilities, serving a wide selection of entities, including those possessing a nation-wide business network. EUPMS is recognized both by clients and utilities for its ability to design and implement electricity cost-reduction projects, on time and with guaranteed results, keeping in more than 10 years a continuous growth and a respected image, according to the company.

For more information, visit www.eupms.com.