

# Project Profile

TERAWATT IDR CASE STUDY

LARGE TEXTILE FACILITY



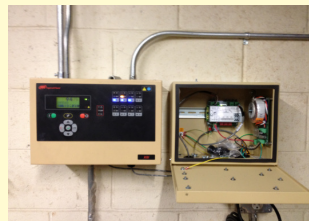
## Project Highlights

Annual KWH off-set: 1,336,838  
Annual CO2 tons off-set: 963  
Savings: \$ 50,183 Annually

*"We are grateful to Edmundo Duarte for the time and expertise in making this a successful project. I am pleased to recommend EUPMS Power Management Systems."*

**Russel Mims**

**Vice President Operations  
Buhler Quality Yarns Corporation  
USA Operations, Jefferson, GA**



## Quality and Reliability, Efficient Electricity Usage

BUHLER Quality Yarns Corporation, located in Jefferson Georgia since 1966, is the American subsidiary of Herman Buhler AG Switzerland, that was established in 1812. It is the leading supplier of fine-count yarns in the USA. Innovative products, excellent yarn quality and an outstanding customer service are the most important goals at Herman Buhler. Nominated to "The Golden Velvet" film award in 2011, more than 200 years of history are recognized and distinguished by elegance, outstanding quality, performance and exclusivity. Looking for ways to cut operating expenses, BUHLER Corp. turned to European Power Management Systems LLC to reduce their electricity bill by optimizing the power demand and rationalize the increasing electricity costs. The customized project reduced the plant electrical bill by an average of 8%, and in addition to lowering their power bill, BUHLER can real-time monitor their energy profile identifying unnecessary electrical loads that can be avoided and reduce waste, enhancing their dynamic approach to energy conservation policies, keeping the company philosophy towards excellence.

## 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 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. 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 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 facility 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 963 tons of carbon dioxide - CO2 or can be viewed as the equivalent of planting 214 acres of trees, removing over 176 cars from our roadways or reducing the use of 108,979 gallons of gasoline.

## EU POWER MANAGEMENT SYSTEMS

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