

Project Profile

Textile Industry

TERAWATT IDR CASE STUDY

Large Plant



Project Highlights – Saybrook Plant

Annual kWh off-set: **1,370,070**
Annual CO2 tons off-set: **986**
Annual cost-savings: **\$83,619**



Quality and Reliability, Efficient Electricity Usage

When James A. Chapman founded Inman Mills in 1901, he founded a company that would not only still be spinning and weaving fabric more than a century later, but one that would also become a family legacy so tightly woven into the history of Spartanburg County that it would be impossible to imagine life without it. Thanks to this legacy, today Inman Mills stands strong as one of the leading technical textile manufacturers in the United States, specializing in high-quality greige or unfinished fabrics and yarns for home furnishings, apparel and technical uses. More than 700 people are employed at three Inman Mills locations in South Carolina: Saybrook in Inman, and Ramey and Mountain Shoals in Enoree. 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 \$83,619 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 986 tons of carbon dioxide - CO2 the equivalent of planting 219 acres of trees or reducing the use of 111,688 gallons of gasoline.



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