

Real Time Energy Management

Industrial Program



Transform the way you manage, consume, and buy energy

An Enabling Technology

Real Time Energy Management (RTEM) systems continuously monitor real time granular data from machines and other sensors to an IoT platform (typically hosted in the cloud) and transform it into actionable information for property owners, process engineers, maintenance managers and operators. Industrial RTEM offers flexible options for participation based on existing or new SCADA systems, machine control panels, data historian, process information, sensors, data analytics solutions, and HMI stations.



Get Empowered and Save on Energy



NYSERDA will cost share up to 30% of your overall RTEM expenses (including adding additional data acquisition hardware and integration with existing SCADA, data historian, HMI screens, etc.) up to \$500,000. NYSERDA will also provide you the tools and technical support needed to reap the benefits of improved insight into production efficiencies and machine performance. There are multiple tracks to participate in the RTEM Industrial program.

Manage Industry Specific Systems



Facilities may generate hot water, steam, chilled water, and compressed air for consumption by the manufacturing equipment. RTEM solutions can pinpoint a site's operational inefficiencies, bad power quality, identify energy conservation measures, and help justify capital improvements. RTEM for industrial facilities can be expanded to manage other industry-specific systems such as specialty water and wastewater treatment.

Get Smarter By the Second



RTEM can incentivize installing meters and circuit monitors on individual machines of production lines in the facility. This should include manufacturing information and automation systems, so overall production efficiency can be included as a metric. RTEM services can drive continuous energy efficiency recommendations and help justify major capital expenditure decisions with a data-driven approach.



Benefits of an Industrial RTEM system

- **Understand** production efficiency data and identify production inefficiencies.
- **Gain** insight into energy spend data.
- **Access** ongoing granular data on a machine-by-machine basis.
- **Detect** anomalies to identify issues and opportunities to optimize performance. This helps avoid costly equipment degradation and improve maintenance schedules/replacement.
- **Establish** clear metrics to identify energy-saving opportunities and track reductions in energy use. These opportunities can then be implemented by a trained in-house energy management professional or as an offering of the PI/Data Historian/Data analytics provider.

The future is energy management

At industrial facilities, process engineers, operators and plant managers understand their quality metrics and the way their machines are supposed to run better than anyone else. They are best suited to work with vendors (software, hardware, integrators, consultants, etc.) to customize real time data capture into continuous improvement process for efficiency improvement. RTEM industrial incorporates this fact into our flexible options for participation in the program.

The Smarts Behind the Data

Too much data can be intimidating and make operational improvements more complicated – an RTEM system is designed to make data and analytics more approachable and manageable by putting them in one place. The result? A high performing plant with insights into energy consumptions and usages as a competitive advantage in a market rapidly embracing “Industry 4.0” standards.



Ready to get started?

Get energy smart now, and connect with a NYSERDA-qualified vendor at nyserdera.ny.gov/RTEM

If you have questions or need support, reach out to rtem@nyserdera.ny.gov