RTS — Manufacturing Business Intelligence — Delivering Operational Excellence

Consulting
Automation

RTS Energy Management Information System (RTS EMIS) on SAP MII

What's your strategy to deal with the volatile and increasing cost of energy and water?
How can you drive behavioral change around energy management?
Do you budget energy cost based on historical consumption data only?
What are the energy influencing factors that should drive your energy targets?
Is your organization paying unnecessary emissions compliance fines?

Energy Management, as well as any other corporate initiatives should be about:

SAVING MONEY: Energy consumption reduction and optimization has an environmental impact but also drives a **significant economic advantage**. Energy, managed properly, can represent a **5-15% reduction in energy spending with a <1year ROI.**

MAKING MORE USING MINIMUM RESOURCES: **Dynamic energy targets** based on changing energy influencing factors (product, production volume, outdoor temperature, etc.) are the only way to truly operate at the lowest energy consumption level. "Best-In-Class" organizations also understand that energy should be managed as a **"raw material", instead of as a fixed cost**.

REDUCING ENVIRONMENTAL IMPACT: Today most companies want to be able to see deep into their enterprise to determine how sustainable they are and to ensure their benchmarks are being met, or exceeded. **"If one cannot measure how can one manage!"** A flexible, auditable infrastructure, which enables Energy Management based on **real time operational information**, is key to the initiative.

RTS deploys energy reduction strategies, which deliver a competitive business advantage.

At RTS we work with our clients, to drive industry best practices while implementing a **holistic Energy Management Solution** that works within their manufacturing or commercial business to significantly **reduce energy use, intensity and cost.**

The **SAP Certified**, RTS Energy Management Information System, seamlessly integrates with the business system and the shop floor infrastructure, providing the following 4 categories of benefits:

SAP® Certified
Powered by SAP NetWeaver®

ENERGY

RTS Energy Management Information System (EMIS) on SAP MII:

- **Composite solution deployable in only 12 weeks**
- **Integrated Enterprise Energy Solution**
- **Dynamic Energy Targets**
- **Powerful Energy Reduction Analytical Tools**

1) Predictive Energy Management:

- **Granular energy usage visualization and reporting** with departmental, process or SKU accountability. 15 minute interval data for continuous energy improvement planning.
- Comprehensive visibility to **real-time energy consumption trending** information for early detection of poor energy performance.
- **Immediate email and dashboard alerts** to energy consumption anomalies that drive behavioral change and ensure "best in class" energy targets are not breached.
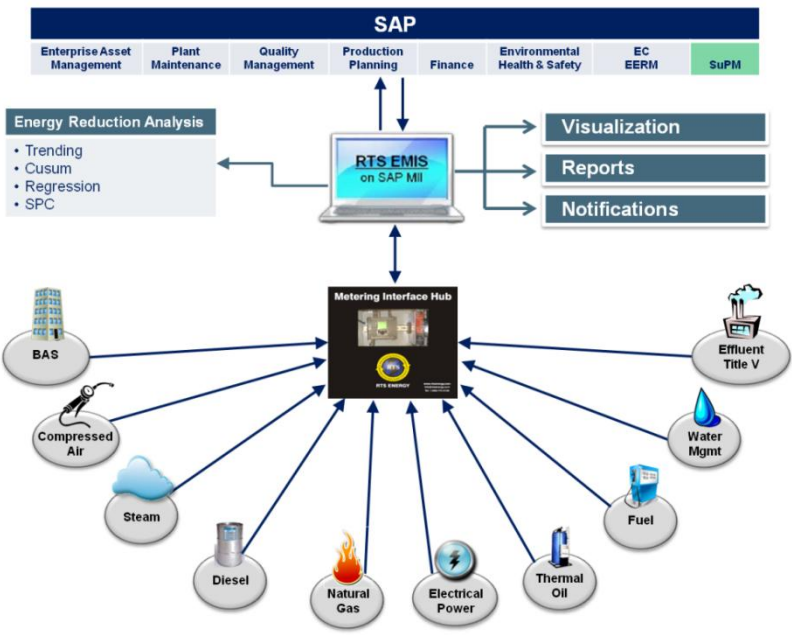
2) Enterprise Integrated Solution:

- Can be deployed as a standard solution across all plants and sites, regardless of underlying production and IT systems.
- It allows enterprise **energy analysis comparisons and cost allocation** to identify "best of breed" energy performers:
  - Plants / Processes
  - Production shifts / lines
  - Departments / significant assets
  - Days / week / weekend
- **One single system of record** for energy management, providing robust analytics and consolidating **information** from all different sources (**SAP and non-SAP based**) and processes.
- Increased **data transparency & accuracy**, automatically recording energy & production information from meters, significant assets, Historians, PLC's, DCS's, LIMS & the business system.
- Effective energy analysis via standard and custom reports, including many pre-built **Statistical Analysis** algorithms.
- Enhanced user acceptance and learning, through interactive **role-based dashboards.**

4) Energy Continuous Improvement:

- **Dynamic Energy Targets**, based on influencing factors such as: production volume, production type, occupancy, weather, etc.
- **Regression Analysis, 4 variable**, calculated dynamic targets based on actual multiple energy influencing factors.
- **Utility Billing Reconciliation information directly** to Accounts Payable.
- Enables aggressive **asset decommissioning program around inefficient equipment,** as well as validate the energy claims of new equipment manufacturers.

3) International Standards & Governmental Programs Compliance:

- True "real time" energy intensity & cost awareness
- **Water Consumption, Title V and Waste Management**
- Platform for meeting future industry initiatives and standards for energy management such as**: ISO 50001, Save Energy Now, Superior Energy Performance and Better Plants Program.**

RTS Consulting Inc.

Over 20 years of experience in the manufacturing sector, has fostered a successful organization of professionals assisting companies to achieve Global Manufacturing Excellence.

Since 1992, RTS has transformed into a company providing complete "shop floor to top floor" turnkey solutions. Service offerings range from: manufacturing execution consulting and implementation, MES to PLC Integration, Energy and Quality Management Information Systems and Plant Floor Data Collection. Developing a "Road Map to Success" by leveraging documented best practices and flawless implementation, RTS has become the partner of choice among many Fortune 500 clients across several continents: Europe, Africa, America and Asia.

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