



Sustainability & Energy Management

Brochure

expanding **human possibility**[®]



PUBLIC



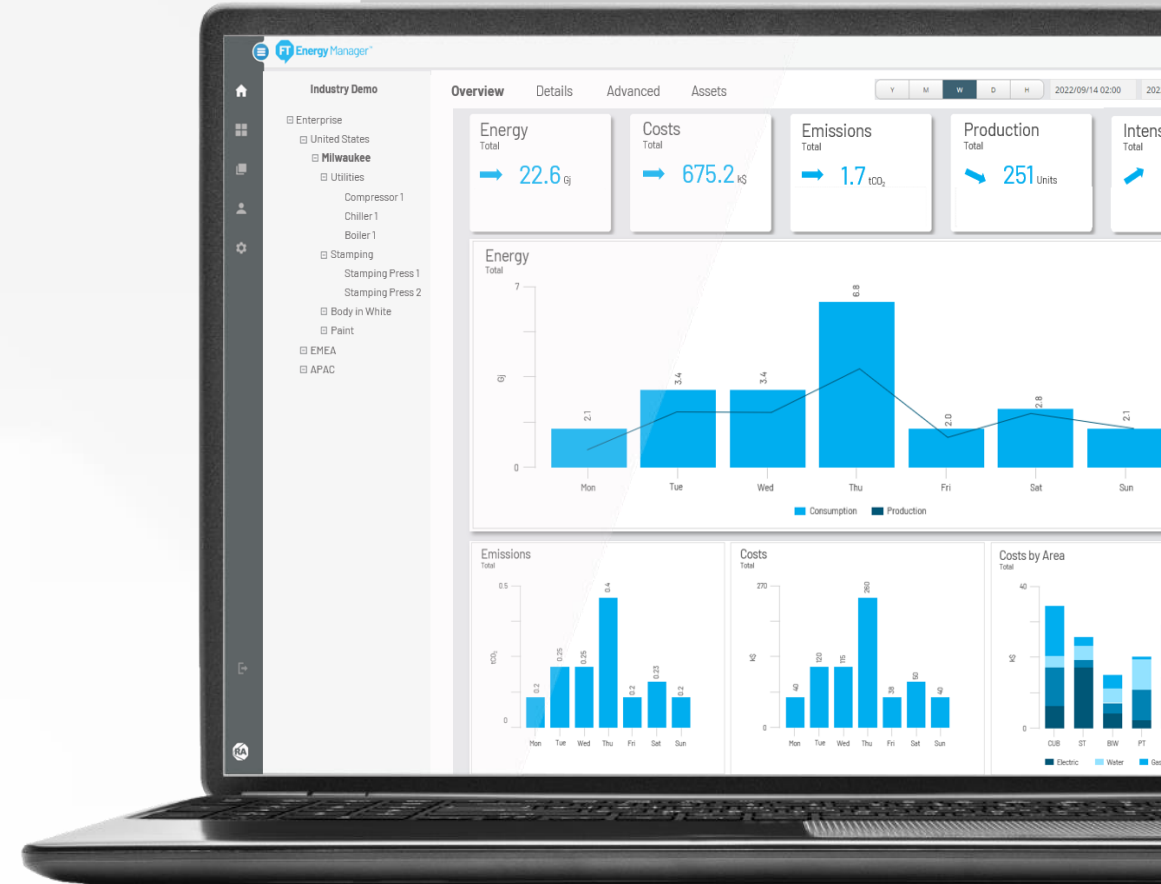
Sustainability & Energy Management

Enables Real-Time Improvement of Operational Sustainability

Monitor and manage electric and piped utilities

Understand Scope 1 & 2 emissions:

- Foundational architecture to collect, contextualize and compare energy data from different sources
- Configurable plant asset model builder to create customized energy model hierarchies
- Preconfigured performance dashboards for energy and production information (energy consumption, energy demand and energy intensity)
- Data connectors to historians, 3rd party protocols, and other sources
- Billing dashboards for energy cost allocation
- Carbon Accounting, GHG emissions tracking, and continuous emission monitoring



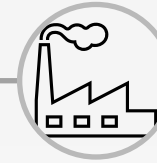
Sustainability & Energy Management

Achieve efficiency across functions and roles



Energy Manager

Enable **Energy Managers** to spend their time pursuing **energy improvement opportunities**.



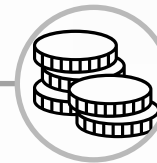
Operations Manager

Realize **performance gains** by **comparing energy usage and cost** across the enterprise.



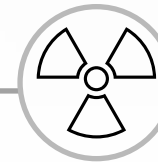
Facility Managers

Pinpoint **equipment** that is **consuming energy abnormally** and **take corrective actions** accordingly.



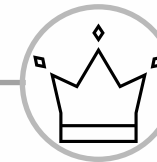
Accounting

Allow accounting to **provide accurate forecasting** of energy costs and **advising operational leadership** in **recovery plan**



Risk Manager

Optimize **hedging programs** and **control costs** through **demand planning, forecasting** and deeper **insight on energy consumption**.

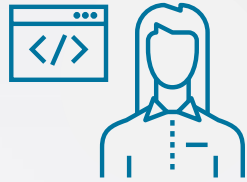


Leadership

Provide **real-time performance dashboards** at the **site, region, and enterprise**, driving **strategic decision-making**.

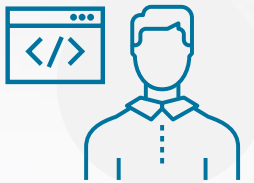
Sustainability & Energy Management

Enables Real-Time Improvement of Operational Sustainability



Leadership

- Real time performance dashboards (site, region, enterprise)
- Baseline & benchmarking
- Demand & Production Forecasts



Operations

- Real time utilities dashboards (machine, work cell, site, product)
- Usage trends, demand analysis
- Recommendations and actions

Enterprise Layer

Overall Monitoring & Management of WAGES

Plant Supervisory Layer

WAGES Monitoring & Analytics
Optimization & Control

Prediction & Prescription Models

Machine & System Layer

Operational Technologies

Machines

Data
Collectors

Information
Systems

Sensors & Actuators

Operational Instrumentation

Meters

PLCs

Sensors



Water



Air



Gas



Electric



Steam

- Proactively manage Energy cost and usage
- Increase Energy efficiency and reduce emissions
- Fully utilize Energy assets
- Improve strategic decisions and Energy management best practices
- Automate (previously) manual tasks
- Improve Energy reliability and availability



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