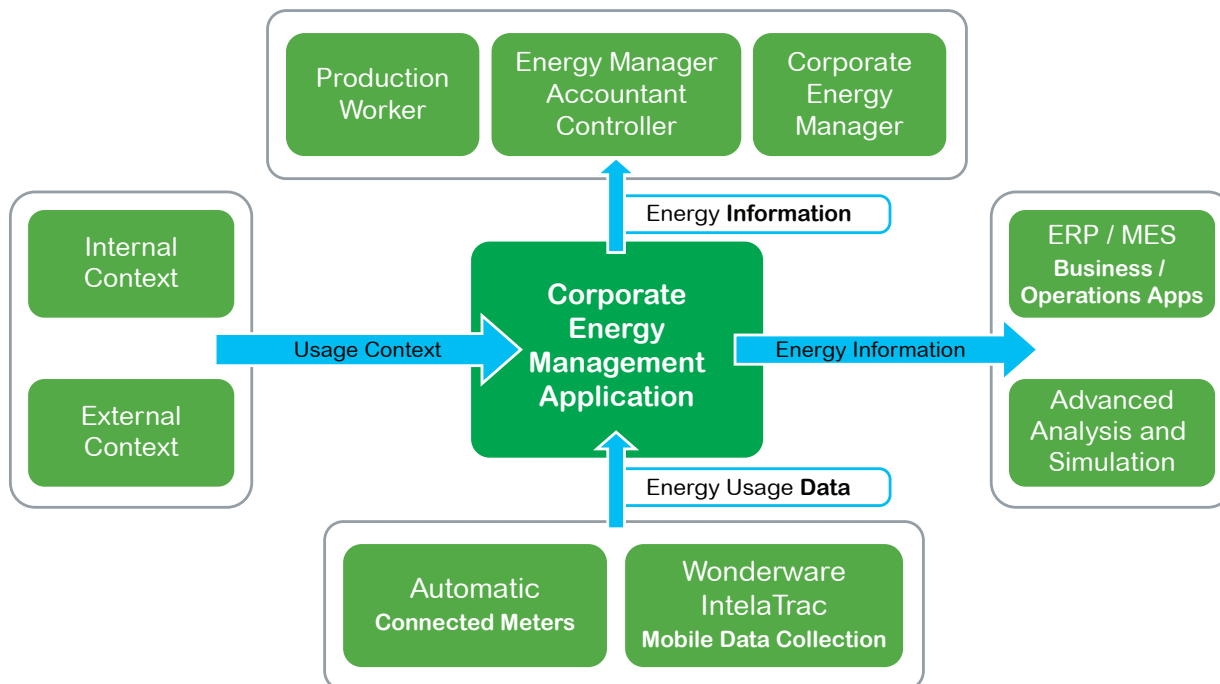


Wonderware Corporate Energy Management

Wonderware Corporate Energy Management transforms raw energy data into actionable information so organizations can better understand energy consumption history, patterns and costs and better manage energy usage. Functionality includes consumption and demand at main and sub-meters for a wide range of energy types, including power, water, chill, gas, air and steam.



Wonderware Corporate Energy Management



SUMMARY

Wonderware Corporate Energy Management software collects and contextualizes energy usage data. It is used by energy managers and operations personnel to understand and manage the use of all forms of energy in the context of their business.

BUSINESS VALUE

- Find wasteful energy scenarios
- Enables energy Targeting and Monitoring strategies
- Ensures equipment or procedural changes are successful and sustained
- Easily determines what causes variance in budgeted energy cost
- Enables a business to take advantage of smart grid opportunities

Transform Energy Data Into Operational Information

Wonderware Corporate Energy Management software simplifies the process of configuring, gathering and delivering energy related data from today's automation and energy metering systems. This software helps reduce the engineering required to integrate energy metrics into reporting and analysis applications.

Corporate Energy Management is highly scalable and allows standardized templates to be created once and used many times. This standards-based approach is ideal for large energy efficiency initiatives spread across many sites and applications.

Jumpstart Your Energy Efficiency Program

Energy management is a continuous improvement activity. Achieving and sustaining energy efficiency gains requires accurate, timely and reliable energy usage information. Wonderware Corporate Energy Management provides a powerful way to capture and organize this information. Companies can use this information to prove the energy efficiency of new equipment or the effectiveness of standard operating procedures.

Plan your energy consumption using multilevel Targeting and Monitoring strategies. When deviations occur, Corporate Energy Management software can provide the rich context needed for accurate root-cause analysis. Once the procedural or equipment changes are made, the application can be used to validate the effectiveness of the corrections.

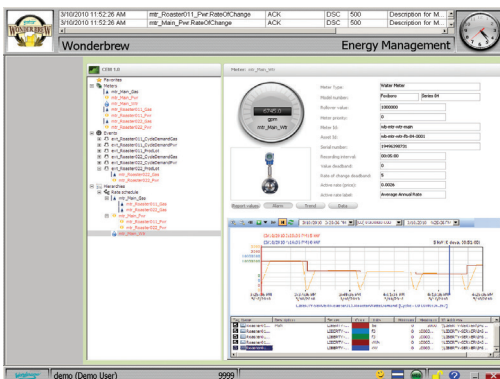
Energy Cost Of Operations

Do you know the energy cost to make your products or deliver your service? Clean your equipment? Heat and cool your facility? Does one product incur higher energy costs than another? Is Shift 1 more energy efficient than Shift 2?

Wonderware Corporate Energy Management allows you to define energy usage in your terms. Energy events help capture the energy usage for any fixed or variable period of time.

- Production order, batch, lot
- Unit operation, phase, segment
- Occupancy, heat days, cool days
- Demand response episode
- High Flow condition
- Equipment state: startup, idle, producing

COSTS	
FIXED	VARIABLE
<ul style="list-style-type: none"> • Energy • Facilities • Equipment 	<ul style="list-style-type: none"> • Energy • Labor • Material



➤ Quickly configure the application to read energy meters for power, gas, air, steam, chill, and water

For business managers, Wonderware Corporate Energy Management software provides the details needed to manage energy usage as the variable cost it is—today and in the future. Manage energy costs the same as labor or material costs. Add energy cost to a product's bill-of-material and enable variance reporting.

Wonderware Corporate Energy Management

The Cornerstone for Corporate Energy Management Initiatives

A vast array of equipment, techniques and consulting is available to corporations and agencies that embark on an energy management initiative. Governments and industries are adopting new energy standards, e.g., ISO 50001, to define and execute these energy programs in the same way standards were created for quality, safety and operational effectiveness.

Wonderware Corporate Energy Management software is a real world tool for determining if equipment, processes, and procedures are energy efficient and sustainable. The real-time and historical energy information provided by Corporate Energy Management software will become invaluable in your energy management initiatives.

Taking Full Advantage of Smart Meters

Energy providers worldwide are installing “smart meters” in homes, businesses and industrial sites to enable automated meter reading, time-of-use price contracts and to manage load during peak periods. Using our advanced object-based software technology, the Wonderware Corporate Energy Management application adds these advanced capabilities to the energy meters already inside your facility. Each of your meters becomes a cost computer, applying real-time prices to energy usage and providing this information to operators, engineers, managers and accounting.

Fast Deployment

Wonderware Corporate Energy Management software was designed from the ground up to achieve immediate results. As commercial off-the-shelf software, it can be installed, configured and producing reports and real-time displays in as little as one day! Of course, your energy meters must be in place and accessible by a fixed or wireless network. Device connectivity is provided by the Wonderware System Platform, which is globally installed in over 100,000 industrial, commercial and government sites.

Smart Grid Ready

Industrial, commercial and infrastructure facilities, today, must effectively manage the energy used to produce goods and services. In times of high energy costs, the energy component of production cost is critical to the business. In the future, these facilities will be nodes on an intelligent energy supply chain, also known as a Smart Grid.

Managing the cost of energy will produce a competitive advantage over those who can't leverage the opportunities provided by demand response, self generation, dispatchable distributed generation, and real-time market pricing for energy. An operation must understand its energy consumption characteristics to reap the benefits and avoid the penalties while meeting the needs of their customers and the environment. Operations will incorporate new concepts such as “green” scheduling, use-or-sell co-generation capacity, and load-shedding. Undoubtedly, these concepts will be disruptive to normal operations and will affect industrial automation, maintenance, performance and asset management.

Wonderware Corporate Energy Management helps an organization minimize the disruptions and leverage the opportunities. It was designed for the emerging requirements for Smart Grid connectivity and interaction.

Components of Wonderware Corporate Energy Management Software

- **Configuration Object** – Configures the application options.
- **Point of Energy Use Object** – Linked to the device or automation equipment that accumulates units of energy usage and other available values. Typical devices are meters for power, water, steam, air, gas and chill. Also contains the dynamic rate schedule for smart grid integration. Demand attribute allows easy calculation of maximum average demand. Targets can be defined for the main meter and/or sub-meter level.
- **Energy Event Object** – Configured to collect energy usage for specific events in the operation. Complements the time-based interval data collection. Leverages the connectivity of [Wonderware System Platform](#) to industrial and commercial automation.
- **Database Service Object** – A key component to link the above objects to the Energy Database and implement “store and forward” if the database connection is unavailable.
- **Real-time Energy Viewer** – Gives workers and supervisors a real-time view of energy usage, including cost, so they can be part of the energy management team in their daily tasks. View consumption versus targets.

Wonderware Corporate Energy Management

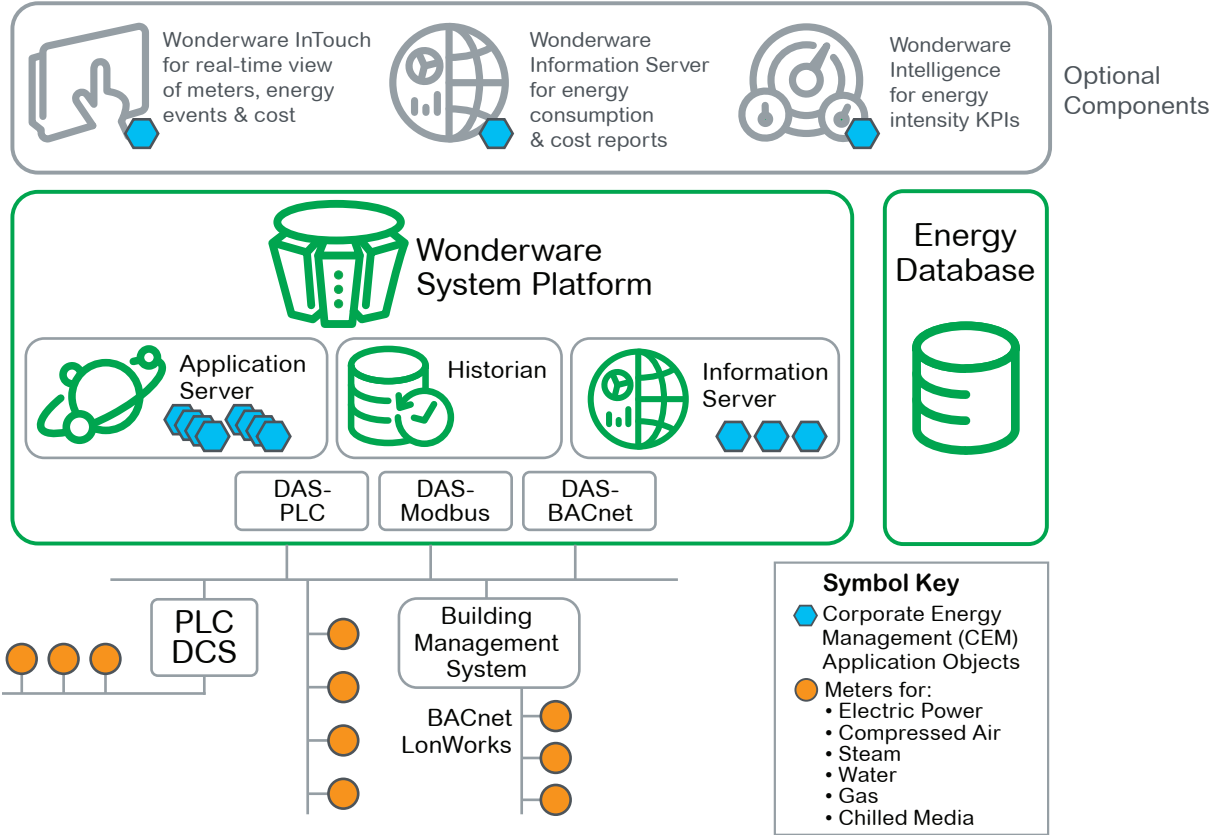
- **Pre-configured Reports** – Web reports automatically adapt to additions of meters and energy events. Provide historical usage and cost of energy by cost center, energy event, asset, physical zone or other meaningful business context. Report progress toward targets for your Targeting and Monitoring program.
- **The Energy Database** – An advanced data model implemented on Microsoft SQL Server, a veritable gold mine of rich, pre-contextualized data for use in web reports and to be shared with other enterprise systems.
- **Meter Web Application** – An intuitive interface allows users to edit meter data values and rates through Wonderware Information Server.

Interoperability

Wonderware Corporate Energy Management software requires Wonderware System Platform to interact with meters and existing automation. Energy meters may be directly connected using Ethernet or through the automation layer using the extensive Wonderware library of device drivers for commercial and industrial applications.

Wonderware System Platform provides the industrial software infrastructure required to execute the specific energy objects and components provided with the application. Corporate Energy Management fully supports System Platform redundancy.

Application Components



For more information on Wonderware Corporate Energy Management, please visit: <http://software.invensys.com/products/wonderware/manufacturing-operations-management/corporate-energy-management/> or contact your local Wonderware distributor.