



### Summary

This application, built on the Wonderware System Platform, collects and contextualizes energy usage data. It is used by energy managers and operations to understand and manage the use of all forms of energy in the context of their business.

### Business Value

- Find wasteful energy situations.
- Ensure equipment or procedural changes are successful and sustained.
- Easily determine what causes variance in budgeted energy cost.
- Enable a business to take advantage of smart grid opportunities.

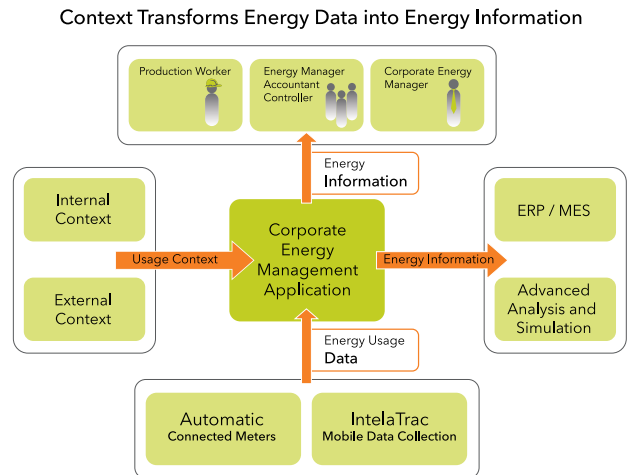


# Wonderware Corporate Energy Management Application

## TRANSFORM ENERGY DATA INTO OPERATIONAL INFORMATION

Collecting data from meters is easy. Using meter data for business decisions is not.

The Wonderware® Corporate Energy Management Application transforms energy data into the information energy managers need, which addresses real-time management of energy usage in an operation. This information becomes essential for energy consumption awareness and cost reduction.



## JUMPSTART YOUR ENERGY EFFICIENCY PROGRAM

Energy Management is a continuous improvement activity. Achieving and sustaining improvements in energy efficiency require reliable information. The Wonderware Corporate Energy Management Application is a source of comprehensive and reliable information that the entire organization can use to prove new equipment and procedures have a positive impact and continue to deliver results.



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

When deviations to plan occur, the richly contextualized information enables the root-cause to be quickly determined. Once the procedural or equipment changes are made, the application is used to make sure the correction was effective and sustained.

## ENERGY COSTING OF OPERATIONS

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

The Wonderware Corporate Energy Management Application allows you to define energy usage in your terms. Energy events enable capture of combined energy usage for any fixed or variable period of time. Examples are:

- 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"><li>• Energy</li><li>• Facilities</li><li>• Equipment</li></ul>	<ul style="list-style-type: none"><li>• Energy</li><li>• Labor</li><li>• Material</li></ul>

Financial Controllers and Planners take note: The Wonderware Corporate Energy Management Application provides the information needed to manage your energy as the variable cost it is—today and in the future. Manage energy as you do labor and materials. Promote energy cost to the bill-of-material and enable variance reporting.

## THE CORNERSTONE FOR CORPORATE ENERGY MANAGEMENT INITIATIVES

A vast array of equipment, techniques and consulting is available to corporations and agencies who embark on an energy management initiative. Governments and industries are adopting new standards to define and execute the programs. These standards follow in the steps of continuous improvement programs for quality, safety and operational effectiveness.

The Wonderware Corporate Energy Management Application will be the one place where all members of the team come to determine if equipment, techniques and consulting are effective and sustainable. The real-time and historical information provided will become part of your organization's operational DNA.

## SMARTEN UP METERS

Energy providers world-wide are installing "smart meters" on homes, businesses and industrial sites to enable automated meter reading, time-of-use price contracts and load conditions for grid operations. The Wonderware Corporate Energy Management Application, using its advanced object-based technology, adds this capability and more to the meters inside your operation. Imagine each meter becoming a cost computer, applying real-time prices to energy usage and providing this information to operations, managers and cost accounting.

## FAST DEPLOYMENT

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



## SMART GRID READY

Industrial, commercial and infrastructure facilities are persistently faced with challenges when managing the use of energy 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 network, 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-gen capacity, and load-shedding. Undoubtedly, these concepts will be disruptive to normal operations and will affect industrial automation, maintenance, performance and asset management.

The Wonderware Corporate Energy Management Application helps an organization minimize the disruptions and enable the opportunities. It was designed for the emerging requirements for smart grid connectivity and interaction.

## COMPONENTS OF THE CORPORATE ENERGY MANAGEMENT APPLICATION

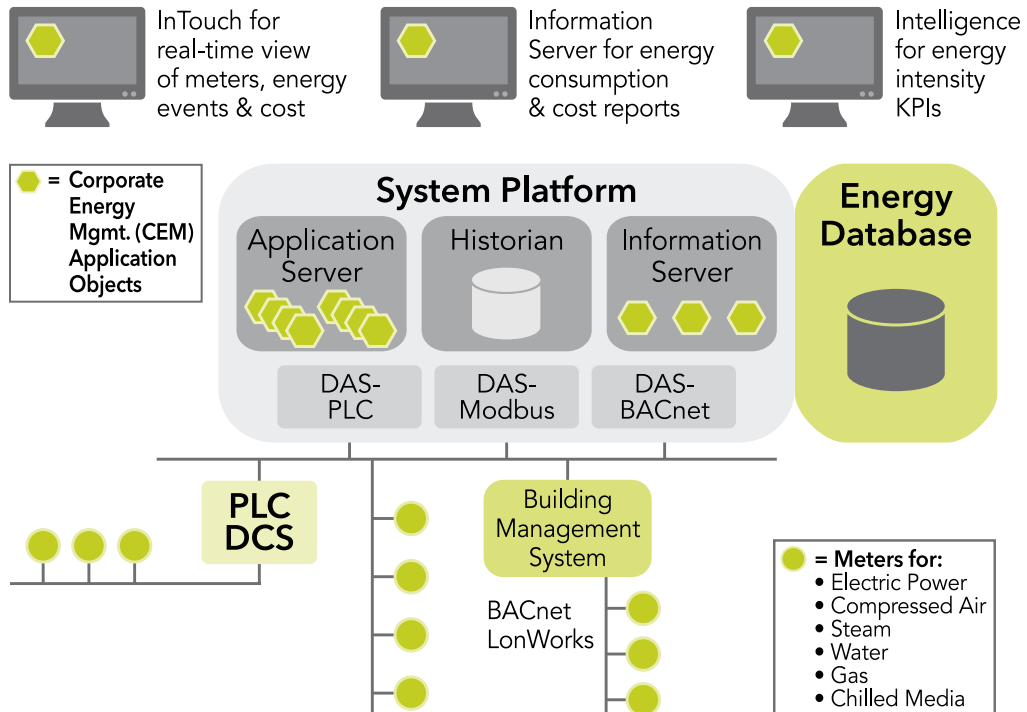
Wonderware System Platform 3.1 or newer is required for the application. It provides the industrial grade infrastructure to execute the specific objects and components provided with the application.

- **Configuration Object** - Configure the application options
- **Point of Energy Use Object** - Linked to the device or automation 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.
- **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 the 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.
- **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.
- **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.

## INTEROPERABILITY

The Wonderware Corporate Energy Management Application uses the 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 library of device drivers for commercial and industrial applications.

### Application Components



WW\_datasheet\_EnergyManagement\_en\_1210



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