

“Best Energy Service Project 2009” awarded to Siemens

Motor factory improvements earn commercial sector prize



For fourth year, Siemens wins European Energy Service Initiative honor.

■ **Maximize Efficiency! reduces energy use by 57 percent**

Siemens followed its own advice to Maximize Efficiency! at its factory, cutting energy use by 57 percent and reducing annual CO₂ emissions by 3,900 tons. The impressive results earned Siemens its fourth consecutive award from the European Energy Service Initiative, this year for “Best European Energy Service Project” in the commercial sector. EESI promotes energy performance contracting to help establish effective energy service markets in Europe. Siemens won the overall “Best Provider” award in 2006 and best project awards in 2007 and 2008 for the Brigittenau indoor swimming pool in Vienna, Austria, and UniCredit Group’s headquarters in Milan, Italy.

Connie Hedegaard, European Commissioner for Climate Action, presented the 2009 award for the

Siemens Elektromotory Mohelnice project to Radim Kohoutek, Energy Efficiency Services Manager, for the Building Technologies Division of Siemens. Hedegaard noted that energy service providers play an increasingly important role in reaching the EU’s energy efficiency and climate targets. “Energy services make an important contribution to more climate protection in Europe and demonstrate that economy and climate protection can go hand in hand. We need to make sure that we fully deploy their potential,” Hedegaard said.

Siemens Energy Saving Performance Contracting helps customers bridge the gap between continuously rising energy costs and limited budgets. In projects around the world, Siemens has helped customers save 16.2 TWh energy and reduce 9.2 million tons of CO₂ emissions each year.



57%
energy saving
per year

3,900
tons CO₂ reduction
per year



Largest Siemens plant in Europe, with a foundry, 50 buildings and 75 acres, named model of efficiency

■ Minimize costs, optimize building performance

Siemens Elektromotory in Mohelnice, Czech Republic, is the largest Siemens industrial plant in Europe. Its 2,100 employees produce 7,000 motors a day at the 75-acre plant, which has 50 buildings and halls and its own foundry.

In 2006, Building Technologies conducted an energy audit and found that an updated HVAC system would provide significant savings opportunities. The existing centralized heat supply, connected to a third-party plant, and obsolete heat exchanger stations caused heat losses that increasingly affected the bottom line because of rapidly rising prices. The baseline heat consumption was 34,1 million kWh (122,900 GJ) annually. A plan to maximize the factory's efficiency was developed as a performance contract, including design and project management and supervision of five subcontractors.

The entire project was completed in 12 months and during full operation of the

plant to meet Elektromotory's goals. The Building Technologies team decentralized and optimized heat generation throughout the factory. A new gas pipeline network and new quick steam generators for production purposes were installed. New local boiler plants were constructed in selected buildings and heat-exchanger stations were reconstructed.

To provide better control without compromising comfort, a new DESIGO building automation and control system with 36 submeters was installed. Existing Honeywell controllers were integrated. A new energy monitoring system connected to the Siemens Advantage Operations Center provides better energy management for ongoing efficiency improvement.

The Maximize Efficiency! project minimizes the plant's capital and operating expenditures and resource use while ensuring that buildings consistently perform at optimal levels. It is also helping the plant become "green."

Highlights

- Customized 1,670,000 euro modernization of building technology equipment and automation technology without the need to invest capital
- Reduction of 19,500,000 kWh, or 57 percent in annual energy consumption
- Energy Services with monitoring and controlling to ensure the guaranteed energy savings
- Contribution to climate protection through annual reduction of 3,900 tons of polluting CO₂ emissions
- Project implemented in 12 months during plant's full operation

The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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