

Honeywell Process Solutions

Energy Efficiency Fact Sheet

Honeywell Process Solutions' Energy Efficiency Solutions:

Honeywell has a portfolio of solutions that help industrial manufacturers purchase and produce energy economically and efficiently, prioritize energy usage, improve process efficiency, meet and maintain environmental regulation compliance, become more energy efficient, help decrease global greenhouse gas emissions and improve overall business performance.

Honeywell solutions can reduce energy consumption in the Chemicals (1-3%), Metals and Mining (3-10%), Pulp and Paper (1-5%), Refining and Petrochemical Industries (2-4%) and Power Generation (1-3%).

Honeywell's energy efficiency solutions for industrial manufacturers include:

Manufacturing Execution Systems (MES), including Business FLEX®, OptiVision® and POMSnet, improve plant profitability by enabling plant staff to work more effectively and make better decisions. Honeywell's MES systems track and report multiple sources of energy usage information against targets so a single energy management program can be implemented.

Advanced Process Control applications such as Honeywell's Profit Suite™ helps process manufacturers minimize fuel and other energy costs associated with production as well as improve efficiency by maximizing throughput and yields of the most valuable products.

Simulation technology such as UniSim® enables manufacturers to model industrial complex energy circuit including suppliers and consumers, heat integration systems and boiler feed water circuits.

Energy Solutions for Utility and Industrial Power includes applications that help Industrial and Utility Power plant staff analyze, optimize and diagnose plant performance to minimize fuel consumption and emissions, increase heat rates and meet changing energy demands at all times, while ensuring flexible, reliable operation with minimum forced outages.

Emissions Monitoring solutions help optimize and streamline environmental reporting, track emission credits/allowances, lower associated risk and achieve regulatory compliance through unparalleled air emissions and management solutions. Honeywell's Cirrus Environmental Information System, Predictive Emissions Monitoring System, regulatory support and Title V solutions address data acquisition, record keeping, analysis, notification and reporting.

Burner Management System (BMS) is a safety system that enables the safe startup, operation and shutdown of the multiple-burner furnace section of a boiler. Honeywell ensures the BMS is compliant with applicable codes and regulations.

Pulp mill controls and measurement applications optimize power boiler operations, achieve maximum effectiveness in steam production and allocation and manage strategies to operate the mill when energy prices are low and sell energy when the price is

high. On the **paper machine**, coordinated measurement and control solutions from Honeywell achieve water removal in the most energy efficient way possible, while maintaining quality parameters of the finished product.

Honeywell Process Solutions Key Business Facts:

Is a strong component of Honeywell's Automation and Control Solutions group.

In 2006, Honeywell Process Solutions' revenues exceeded \$2 billion, with a growth rate higher than the industry average of 6 to 8 percent.

Improves business performance for customers with automation and control solutions, equipment and services that enhance safety, reliability and efficiency.

Has more than 30 years of experience serving the process and hybrid industries, including refining; oil and gas; pulp and paper; power generation; chemicals; petrochemicals; life sciences; and metals, minerals and mining.

Has installed more than 12,000 automation systems since 1974, representing a \$17 billion installed base—one of the largest in the automation industry.

Is leading the industry in process knowledge systems, advanced solutions, safety systems, simulation technology, wireless field devices and integrated facility and process security systems.

Is based in Phoenix, AZ, and employs more than 10,000 people in more than 100 countries.

For more information about Honeywell's energy efficiency solutions and other solutions that can improve business performance, visit www.honeywell.com/ps.