

project profile



Mission: Production Efficiency

Rock Island Arsenal Joint Manufacturing and Technology Center (JMTC), located within the Rock Island Arsenal Garrison in Rock Island, Ill., needed to address aging infrastructure issues and improve overall efficiency — no small task given tight budgets and sizable efficiency requirements. The resulting Honeywell project is helping the JMTC to tackle facility and equipment needs so it can operate as efficiently as possible and support mission readiness.

Honeywell

Addressing Infrastructure Needs to Drive Operational Excellence

The Customer	<p>Rock Island Joint Manufacturing and Technology Center – Rock Island, Ill.</p> <ul style="list-style-type: none">• 1.5-million-square-foot industrial facility that has produced a wide variety of metal parts and systems for the Department of Defense for more than 150 years.• Part of the Rock Island Arsenal Garrison, the largest government-owned and operated arsenal in the United States.
The Problem	<ul style="list-style-type: none">• The JMTC's equipment and infrastructure was starting to show its age and created operational and efficiency challenges for the facility, but budget cutbacks and resource constraints made addressing these issues particularly difficult.• The Garrison also needed to comply with a Presidential Executive Order calling for federal facilities to reduce energy consumption 30 percent by 2015. This made improving efficiency in the JMTC — which accounts for two-thirds of the Garrison's overall energy consumption — especially critical.
Honeywell Solution	<ul style="list-style-type: none">• Honeywell made facility improvement recommendations as part of a 20-year, \$61 million energy savings performance contract, which enables the JMTC to tackle upgrades using the savings generated by the Honeywell-guaranteed improvements.• The project funding structure enables the JMTC to finally address aging infrastructure issues without requiring additional capital or taxpayer dollars.• And, by upgrading critical infrastructure and equipment, the facility will improve its overall operating efficiency and reduce its utility bills — saving money over the long term.
Key Technologies	<p>The Honeywell-led improvements include:</p> <ul style="list-style-type: none">• Installing high-efficiency HVAC systems, including more environmentally-friendly and cost-effective, on-premise natural-gas heating so the JMTC can reduce the amount of heating load it draws from the Garrison's central coal-fired steam plant.• Adding new, more efficient plating and paint systems, which will touch nearly 90 percent of the parts produced at the JMTC and ensure those parts receive the surface coatings necessary to build hardened, durable components for Army equipment.• Upgrading industrial motors and drives, as well as the facility's process and energy control systems, to improve overall energy efficiency and drive cost savings.



“We have been providing the best products and services to our armed forces for more than 150 years. This project lets us tackle our aging infrastructure head on — a difficult task in light of budget cutbacks — so we can operate as efficiently as possible and support mission readiness.”

***— Col. David J. Luders,
Commander for Rock Island
Arsenal Joint Manufacturing
and Technology Center***

Guaranteed Impact

The Honeywell project will drive significant across-the-board results, including:

Reducing energy use by approximately 35 percent, and generating up to \$5.3 million in annual energy and operational savings.

\$5.3 Million
ENERGY & OPERATIONAL SAVINGS

Saving nearly 5.5 million kilowatt-hours of electricity each year — enough energy to power almost 490 homes on average.

5.5 Million kWh
ELECTRICITY SAVED

Limiting annual coal use at the central plant by approximately 12,000 tons and cutting an estimated 63 million pounds of carbon dioxide each year, the equivalent of removing more than 6,300 cars from the road.

63 Million CO₂
POUNDS CO₂ ELIMINATED

Honeywell Building Solutions

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