

ISO 50001 Leads to Deep Savings for U.S. Manufacturers

REAL SAVINGS: U.S. DOE Analysis of Savings in Industrial Plants

Results from 10 facilities certified to ISO 50001:

- \$36,000–\$938,000 in cost savings per year
- 12% reduction in energy costs (on average) within 15 months of initial implementation
- Energy performance improvements of 5.6% to 30.6% over three years
- \$430,000 or more in savings each year from low- or no-cost operational improvements.

Read the analysis for full results: <https://www.energy.gov/eere/amo/downloads/sep-2015-cost-benefit-analysis-paper>



HARBEC, a small manufacturer in Ontario, New York, used ISO 50001 to identify operational improvements that now save the plant \$52,000 annually—with no capital cost.
Photo courtesy of HARBEC



3M Company



The multinational Fortune 100 manufacturer saves \$3.6 million by using an enterprise-wide approach to certifying six sites to ISO 50001. Operational changes with little capital expenditure account for 67% of the energy cost savings at five of those sites.

“The proven performance of our ISO 50001-certified facilities has led 3M to include ISO 50001 and Superior Energy Performance among our strategies to meet our next set of corporate energy efficiency goals.”

Jean Bennington Sweeney
3M Chief Sustainability Officer



Cummins Inc. saved \$4.1 million across three sites after implementing ISO 50001 at an enterprise.

The Fortune 500 American manufacturer plans to expand ISO 50001 to 40 sites by 2020.

Photo courtesy of Cummins Sustainability Report



Key Steps to ISO 50001

- Set an Energy Policy
- Have management commitment
- Empower an energy team
- Identify where energy is used
- Create plans to improve energy use
- Management approval of plans
- Track progress and reassess energy action plans



Nissan's vehicle assembly facility in Smyrna, Tennessee, saved \$2.4 million in annual energy costs over six years—with \$1.7 million of that total based on operational changes alone. *Photo courtesy of Nissan*

NISSAN

Land O'Lakes, Inc. **LAND O'LAKES, INC.**

The Carlisle, Pennsylvania dairy plant has shown that robust energy management brings economic and environmental value. The facility improved its energy performance by 5.7% per year—which is worth cost savings of approximately \$280,000 annually.

Volvo Group

ISO 50001 lead to significant 25.8% and 20.9% energy performance improvements over three years at its sites in Dublin, Virginia and Hagerstown, Maryland. respectively. Mack Trucks, also part of Volvo Group, achieved a 41.9% improvement over ten years at its Macungie, Pennsylvania facility.



The Coca-Cola Company



The Dunedin, Florida Juice Facility is the first U.S. beverage manufacturing facility to achieve ISO 50001 certification—improving its energy performance by 12.2% over 3 years.

MedImmune



The global biologics research and development arm of AstraZeneca, earned ISO 50001 certification at the Gaithersburg, Maryland facility. The facility improved energy performance by 8.5% over three years at its largest building, deriving much of its savings from low- to no-cost changes in operations.

General Dynamics **GENERAL DYNAMICS**

The Army Ammunition plant operated by General Dynamics in Scranton, Pennsylvania, earned certification to ISO 50001 and achieved annual cost savings of \$956,000. In three years, the plant improved its energy performance by close to 12%.



Bosch Rexroth saved \$2.7 million over three years by implementing ISO 50001 at its Bethlehem, Pennsylvania facility. *Photo courtesy of Bosch Rexroth*

Rexroth
Bosch Group