



## Certifying Increased Energy Productivity under ISO 50001

The Superior Energy Performance 50001™ (SEP 50001\*) program, administered by the U.S. Department of Energy (DOE), certifies facilities that implement an ISO 50001 standard compliant energy management system (EnMS) and achieve improved energy performance.<sup>1</sup> In addition, DOE's SEP 50001 program adds a verification component that ensures energy savings.

SEP 50001 builds on ISO 50001 and creates a roadmap that can guide facilities in the right approach for analyzing energy consumption, prioritizing improvements, and tracking progress with energy performance metrics.

By participating, facilities discover how to maintain ongoing energy improvements and new opportunities to achieve and validate energy performance. Facilities can use SEP 50001 to boost their competitiveness, even if they are not yet ready to pursue certification.

Visit [energy.gov/SEP50001](http://energy.gov/SEP50001) to learn more and begin the certification process.

### \*Name Change

DOE is in the process of changing the program name, Superior Energy Performance, to **SEP 50001**



Superior Energy Performance 50001™ encourages facilities of varied sizes and levels of experience to continually improve energy performance.

*Photo credit NREL/17611, Dow Chemical/781, iStock/1764508.*

### Facility Results and Benefits<sup>2</sup>

- Certified facilities achieved an average annual energy performance improvement ranging from 1.0% to 18.7%.
- Ten certified facilities saved \$36,000 to \$938,000 per year through no-cost or low-cost operational measures.
- SEP 50001 reinforces energy efficiency investments on all energy sources used at a facility and maintains those energy savings over time.
- Organizations with annual total energy costs of more than \$2 million were typically able to recoup costs for adopting the SEP 50001 framework in less than 1.5 years.
- Better Plants Partners are working to implement SEP 50001 as a pathway to achieve their corporate-wide energy reduction goals.<sup>3</sup>

### Achieving Certification

SEP 50001 program certification requires independent verification of two requirements:

- ISO 50001 conformance
- Energy performance improvement

Certified facilities can use the SEP 50001 Scorecard to achieve higher levels of recognition: Silver, Gold, or Platinum. The Scorecard results are confirmed via signature by top management and review by a 50001 Certified Practitioner (CP) EnMS.

### Return on Investment

SEP 50001 provides a robust protocol for measurement and third-party verification, and also generates reliable data for company management and external stakeholder use.

Ten manufacturing facilities implemented ISO 50001 and SEP 50001 to improve their energy performance by an average of 12% within the first 15 months—and achieved an average payback of less than two years.<sup>2</sup>

<sup>1</sup> SEP 50001 is accredited by ANSI National Accreditation Board (ANAB).

<sup>2</sup> *Development of an Enhanced Payback Function for the Superior Energy Performance Program*, 2015 ACEEE Summer Study on Energy Efficiency in Industry, Buffalo, NY: [energy.gov/eere/amo/downloads/sep-2015-cost-benefit-analysis-paper](http://energy.gov/eere/amo/downloads/sep-2015-cost-benefit-analysis-paper)

<sup>3</sup> Find more information on the Better Buildings, Better Plants Program at: [energy.gov/eere/amo/better-plants](http://energy.gov/eere/amo/better-plants)

## Support for Facilities

DOE has resources to support facilities in pursuing SEP 50001, including:

- **50001 Ready Navigator:** This free, comprehensive online guide, applicable to organizations and facilities with a mature EnMS or at an entry level, provides easy-to-follow steps for addressing key parts of the ISO 50001 standard. Each step provides relevant activities and timing; and forms, checklists, and templates are provided. Additionally, energy team members can work together within the tool to coordinate and streamline efforts.
- **DOE Energy Performance Indicator (EnPI) Tool:** This tool helps a facility establish a baseline of its energy consumption and identify key variables that affect energy performance over time.
- **Certified Practitioners:** Trained and qualified professionals help facilities assess their top energy efficiency opportunities, implement ISO 50001, and meet requirements to achieve certification.
- **DOE Energy Resources:** DOE has an array of energy efficiency analysis tools, scorecards, and webinars on energy management and specific energy systems.

## Partnership with Industry

SEP 50001 is sponsored by the DOE in partnership with the American National Standards Institute (ANSI), ANSI National Accreditation Board (ANAB), and industrial, commercial and public sector partners that helped to develop this program.

This cooperative partnership between DOE and U.S. facilities leveraged the respective strengths of the public and private sectors, complemented by a network of standards-making bodies, national laboratories, universities, and technical experts. ■

## Superior Energy Performance 50001 Certified Facilities – January 2019

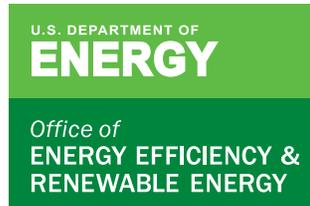
Platinum		
<ul style="list-style-type: none"> <li>• <b>3M Canada</b> Brockville, Canada</li> <li>• <b>3M Canada</b> Perth, Canada</li> <li>• <b>Bosch Rexroth Corporation</b> Bethlehem, PA</li> <li>• <b>Cummins Inc.</b> Charleston, SC</li> <li>• <b>Cummins Inc.</b> Columbus, IN</li> <li>• <b>Cummins Inc.</b> Seymour, IN</li> <li>• <b>Detroit Diesel Corporation</b> Detroit, MI</li> <li>• <b>HARBEC, Inc.</b> Ontario, NY</li> <li>• <b>Hilton San Diego Bayfront</b> San Diego, CA</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Ingersoll Rand</b> Apodaca, Mexico</li> <li>• <b>JW Marriott Hotel</b> Washington, DC</li> <li>• <b>Mack Trucks</b> Macungie, PA</li> <li>• <b>Nissan North America</b> Canton, MS</li> <li>• <b>Schneider Electric</b> Clovis, CA</li> <li>• <b>Schneider Electric</b> Costa Mesa, CA</li> <li>• <b>Schneider Electric</b> Columbia, MO</li> <li>• <b>Schneider Electric</b> Saanichton, Canada</li> <li>• <b>Schneider Electric</b> Seneca, SC</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Schneider Electric</b> Hopkins, SC</li> <li>• <b>Schneider Electric</b> Smyrna, TN</li> <li>• <b>Schneider Electric</b> West Kingston, RI</li> <li>• <b>Schneider Electric</b> Apodaca, Mexico</li> <li>• <b>Volvo Group Trucks</b> Hagerstown, MD</li> <li>• <b>Volvo Trucks North America</b> Dublin, VA</li> <li>• <b>Waldorf Astoria La Quinta Resort &amp; Club</b> La Quinta, CA</li> </ul>
Gold		
<ul style="list-style-type: none"> <li>• <b>3M Canada</b> Brockville, Canada</li> <li>• <b>3M Company</b> Aberdeen, SD</li> <li>• <b>3M Company</b> Hutchinson, MN</li> <li>• <b>Hilton Waikoloa Village</b> Waikoloa, HI</li> </ul>	<ul style="list-style-type: none"> <li>• <b>MedImmune, LLC</b> Gaithersburg, MD</li> <li>• <b>Schneider Electric</b> El Paso, TX</li> <li>• <b>Schneider Electric</b> Greensboro, NC</li> <li>• <b>Schneider Electric</b> Lincoln, NE</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Schneider Electric</b> Peru, IN</li> <li>• <b>Schneider Electric</b> Tijuana, Mexico</li> </ul>
Silver		
<ul style="list-style-type: none"> <li>• <b>3M Canada</b> London, Canada</li> <li>• <b>3M Canada</b> Morden, Canada</li> <li>• <b>3M Canada</b> Perth, Canada</li> <li>• <b>3M Canada</b> Saint-Laurent, Canada</li> <li>• <b>3M Company</b> Cordova, IL</li> <li>• <b>3M Company</b> Cynthiana, KY</li> <li>• <b>3M Company</b> Decatur, AL</li> </ul>	<ul style="list-style-type: none"> <li>• <b>3M Company</b> Prairie du Chien, WI</li> <li>• <b>Bridgestone</b> Wilson, NC</li> <li>• <b>Cummins Inc.</b> San Luis Potosí, Mexico</li> <li>• <b>Cummins Inc.</b> Ciudad Juárez, Mexico</li> <li>• <b>Cummins Inc.</b> Columbus, IN (2 facilities)</li> <li>• <b>Cummins Inc.</b> Whitakers, NC</li> <li>• <b>Nissan North America</b> Decherd, TN</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Schneider Electric</b> Apodaca, Mexico (2 facilities)</li> <li>• <b>Schneider Electric</b> Cedar Rapids, IA</li> <li>• <b>Schneider Electric</b> Foxboro, MA</li> <li>• <b>Schneider Electric</b> Lexington, KY</li> <li>• <b>Schneider Electric</b> Rojo Gomez, Mexico</li> </ul>
Bronze		
<ul style="list-style-type: none"> <li>• <b>Des Moines Water Works</b> Des Moines, IA</li> </ul>		

### Find information and resources:

[www.energy.gov/SEP50001](http://www.energy.gov/SEP50001)

### Contact us:

[SEP50001@ee.doe.gov](mailto:SEP50001@ee.doe.gov)



For more information, visit:  
[energy.gov/eere/amo](http://energy.gov/eere/amo)