



50001 Ready
Utility Network Series
October 2019

U.S. Department of Energy
Technical Partnerships
Advanced Manufacturing Office

Today's agenda

- Conversation with Utility Implementers and their customers
 - Advanced Energy
 - Leidos
- Q&A
- 50001 Ready and DOE Updates
 - DOE program transitions
 - Programs utilizing 50001 Ready
 - 50001 Ready progress





DOE 50001 Ready: Applications in the Real World

Wednesday, October 9, 2019

12:00 -1:00 p.m. EDT

DOE 50001 Ready Utility Network Series

Today's Topics

- Advanced Energy's (AE) Approach to 50001
 - Our preparation and engagement
 - The cohort method
- 50001 Ready Specifics
 - Benefits, opportunities and challenges
- The Story of One Plant's Journey



AE's Approach



- Business Decision
- Multiple ISO 50001 Certifications
- 50001 EnMS Qualified Instructor
- 50001 CP EnMS Scheme Committee Member
- Two full DOE Cohorts
- ISO 50001 Gap Analysis
- *50001 Ready* Implementation
- Delivered a variety of trainings



AE's Approach

Active Partner Referral | Advanced Energy

[more information](#)

[cancel referral](#)



50001 Ready
U.S. DEPARTMENT OF ENERGY



Partnering with:

**advanced
energy**

Welcome to the 50001 Ready Navigator!

The 50001 Ready Navigator is an online application that provides step-by-step guidance for implementing and maintaining an energy management system in conformance with the ISO 50001 Energy Management System Standard. Join the 23,000+ facilities worldwide benefiting from an energy management system!

About the Navigator

Tell Me More:

The 50001 Ready Navigator is an online guide for establishing an energy management system to plan, identify, prioritize, and implement projects that will improve your facility's energy performance. Completion of the 50001 Ready Navigator creates a series of tasks to pursue certification to the international best practice for energy management systems, ISO 50001.

What is Energy Management?

Energy management is an effort for continual improvement of energy performance and efforts to plan, identify, prioritize, and implement projects that will improve your facility's energy performance. Completion of the 50001 Ready Navigator creates a series of tasks to pursue certification to the international best practice for energy management systems, ISO 50001.

Why is Energy Management Important?

Energy is a critical component to your organization's operations. It's important to realize that energy can be managed and controlled. It's not a fixed overhead cost. Energy management helps to reduce your organization's energy costs through improved energy performance and efficient use of energy, safety, and energy resources. To realize the full range of what your organization is capable of, you must first understand the energy management system that you are using, and the consequences that can result from not understanding the system.

Why should I use the 50001 Ready Navigator?

The 50001 Ready Navigator has been developed by the U.S. Department of Energy to help with the energy management system that you are using. Use of the Navigator allows you to understand the energy management system that you are using, and the consequences that can result from not understanding the system. The Navigator is designed to help you understand the system that you are using, and the consequences that can result from not understanding the system.

What is 50001 Ready?

50001 Ready is a U.S. Department of Energy initiative for facilities organizations that have implemented an ISO 50001 based energy management system using the guidance in the 50001 Ready Navigator, and that have demonstrated energy performance improvements. To be 50001 Ready recognized, organizations are responsible for demonstrating energy performance improvements.

Explore the Navigator

Dashboard

100% Recognition Required on ISO 50001? The ISO should report change in your account.

100% Completed

Task Assignments

| Task | Assigned To | Status | Start Date | Action |
|--------------------------|---------------------|-----------|------------|--------|
| 1. Scope and Resources | File Name Last Name | Completed | | |
| 2. Energy Policy | File Name Last Name | Completed | | |
| 3. Management Commitment | File Name Last Name | Completed | | |
| 4. Energy Team | File Name Last Name | Completed | | |
| 5. Legal Requirements | File Name Last Name | Completed | | |

[Create an Account](#) *or*
[Log-in to Get Started](#)

EMAIL ADDRESS

ENTER PASSWORD

[Log In](#)

[Forgot password?](#)

The Cohort Method



- Five to seven companies with similar SEM goals and experience levels
- Ideally, non-competing companies
- Willing to openly share info and best practices
- **STRONG** management commitment is essential
 - Allow time for participation
 - Allow time for homework
 - Provide resources needed to succeed
 - Provide resources for travel to trainings



The Cohort Method: Outcomes

- Gain an understanding of ISO 50001
- Use the *50001 Ready* navigator tool
- Increase energy performance improvement!
- Gain recognition for self-attesting to completing the 25 tasks of *50001 Ready*
- Improve overall plant operations



50001 Ready Specifics



- Must measure energy performance to receive 50001 Ready recognition



50001 Ready Specifics

- Leverage experience with ISO 9001 and ISO 14001

Task 1: We have defined, documented and approved the Scope and Boundaries of our 50001 Ready energy management system

Current Status: **Completed**

Your roles for this task: **Contributor**

Detailed Guidance: Scope and Boundaries

Getting It Done Task Overview **Full Description** Notes **1** Resources

Full Description

▶ **ISO 9001 and/or ISO 14001 transition tips**

50001 Ready Specifics

- Use the cross-reference to ISO 50001

Detailed Guidance: Management Commitment

Getting It Done **Task Overview** Full Description Notes 0 Resources History  Assignments

Task Overview

The most critical key to the success of an EnMS is involvement and commitment by top management



This guidance is relevant to sections 4.2.1, 4.2.2, 4.7.1, 4.7.2, and 4.7.3 of the ISO 50001:2011 standard.

50001 Ready Specifics

- Use the task completion guidance

Detailed Guidance: Energy Policy

Getting It Done **Task Overview** Full Description

Task Overview

The energy policy is top management's statement of performance. The commitments stated in the policy the framework for using energy objectives and target and communicated to personnel across all levels of t

At the completion of this task, you will have...

- Drafted the energy policy
- Approved the energy policy

50001 Ready Specifics

- Use the downloads

| Detailed Guidance: Energy Policy | | |
|--|--|------------------|
| Getting It Done | Task Overview | Full Description |
| Resources | | |
| Name ^ | Type ⇅ | |
| Energy Policy Example | pptx  | |
| Energy Policy Worksheets | docx  | |
| ENERGY STAR Guidelines for Energy Management | pdf  | |

50001 Ready Specifics

- Use the EnMS Documentation Guidance Table

| REFERENCES | | DOCUMENTS | | RECORDS | |
|--|--|---------------------------|---|------------------------|----------------|
| ISO 50001-2011 Reference | Associated 50001 Ready Navigator Task # | What must be documented? | Notes/Comments | What must be recorded? | Comments/Notes |
| § 4.1 b) § 4.2.1 d) § 4.5.4.1 a) | Task 1 Task 19 <i>See also <u>Energy Manual Guidelines</u></i> | EnMS scope and boundaries | Setting scope and boundaries is a top management responsibility. Consider documenting EnMS scope and boundaries within an Energy Manual. Or, the scope and boundaries statement can be a standalone document. | | |

50001 Ready Specifics

- To paraphrase, *50001 Ready* puts the Plan, Do, Check, Act process into simple, clear steps:
 - Say what you will do (PLAN)
 - Do what you said (DO)
 - Verify that you did it (CHECK)
 - Review and improve it (ACT)



One Plant's Story



- Already ISO 9001 and ISO 14001 Certified
- Already LEED Gold Certified
- Desired to achieve ISO 50001 certification



- Started with Gap Analysis

One Plant's Story: Gap Analysis

- Understand where things are versus where they are required to be
- The difference is the GAP
- The Gap Analysis Process
 - Operations
 - Energy Sources
 - Energy Consumers
 - Documentation
 - Gap Spreadsheet



One Plant's Story: Gap Analysis

- Excerpt from the Gap Analysis Spreadsheet

| PDCA | Section | ISO 50001 Section Title | ISO 50001 Requirement |
|-------------|---------|-------------------------|--|
| PLAN | 4.3 | Energy policy | <p>The energy policy shall state the organization's commitment to achieving energy performance improvement.</p> <p>Top management shall define the <u>energy policy</u> and ensure that it: a) - h)</p> |

| TM Current Status | GAP | TM Action Needed |
|--|--|---|
| <p>Corresponds to Section 4.2 of ISO 14001.</p> <p>Not done.</p> | <p>An energy policy has not been written and communicated.</p> | <p>Update the existing environmental policy in EMS 1 to reflect the requirements for the energy policy in ISO 50001.</p> <p>Publish and communicate the new combined EMS and EnMS policy.</p> |

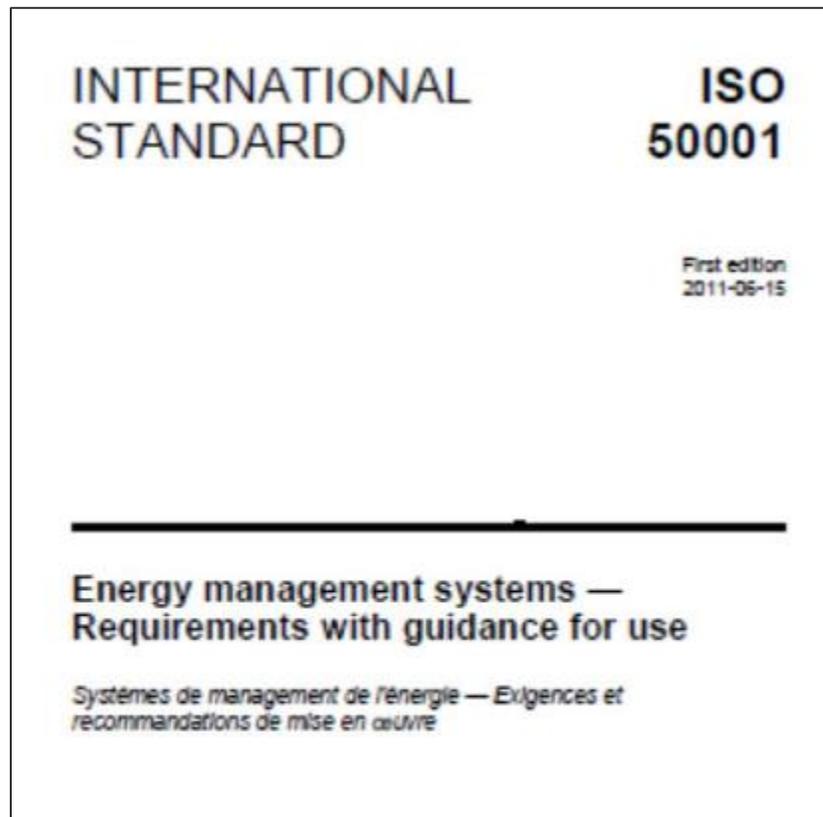
One Plant's Story: Planning and Scheduling

- Excerpt from the Schedule

| TIMELINE | | | D = DOC | Current as of: July 9, 2017 | | Week ENDING, Sunday: | | | | | | | | |
|----------|------------------|-------------------|------------|--|-----|----------------------|--------|-------|-------|--------|--------|--------|-------|--------|
| PDCA | 50001 Ready Step | ISO 50001 Section | A = ACTION | WORK TASKS from GAP Analysis | 66X | 18-Jun | 25-Jun | 2-Jul | 9-Jul | 16-Jul | 23-Jul | 30-Jul | 6-Aug | 13-Aug |
| DO | 16,17 | 4.5.5 | D | l. Write section 4.5.5 in the new EnMS to reflect the operational control requirements for the EnMS. Refer to the new FAP for operational controls. | 32 | C | C | C | | | | | | |
| | | | D | m. Create a new FAP document, <i>Operational Controls</i> , similar to FAP75001, but specifically for operational control of energy related items in the EnMS | 33 | | | | IP | | | | | |
| | | | A | n. Based on your significant energy uses, select your operations and maintenance activities related to significant energy uses that you will address with operational controls | 34 | | | | | S | | | | |
| | | | A | o. Implement operational controls for your selected operation and maintenance activities and communicate this to all applicable staff and contractors | 35 | | | | | | S | | | |
| | | | A | p. Define significant deviations from effective energy performance due to the absence of an operational control point of view | 36 | | | | | | S | | | |

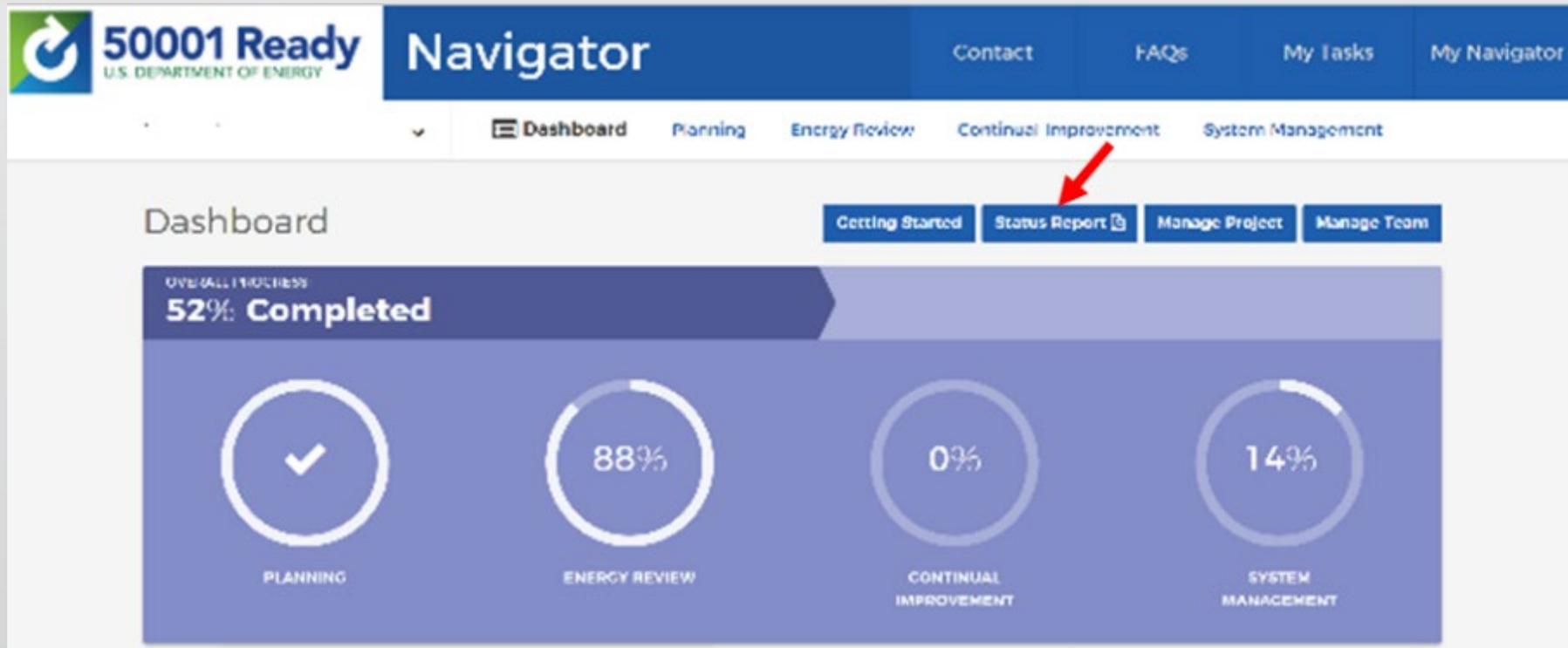
One Plant's Story: 50001 Ready

- *50001 Ready* is a recognition program based on the ISO 50001 Standard



One Plant's Story: 50001 Ready

- *50001 Ready* is an online, web-based 25 step process for energy management

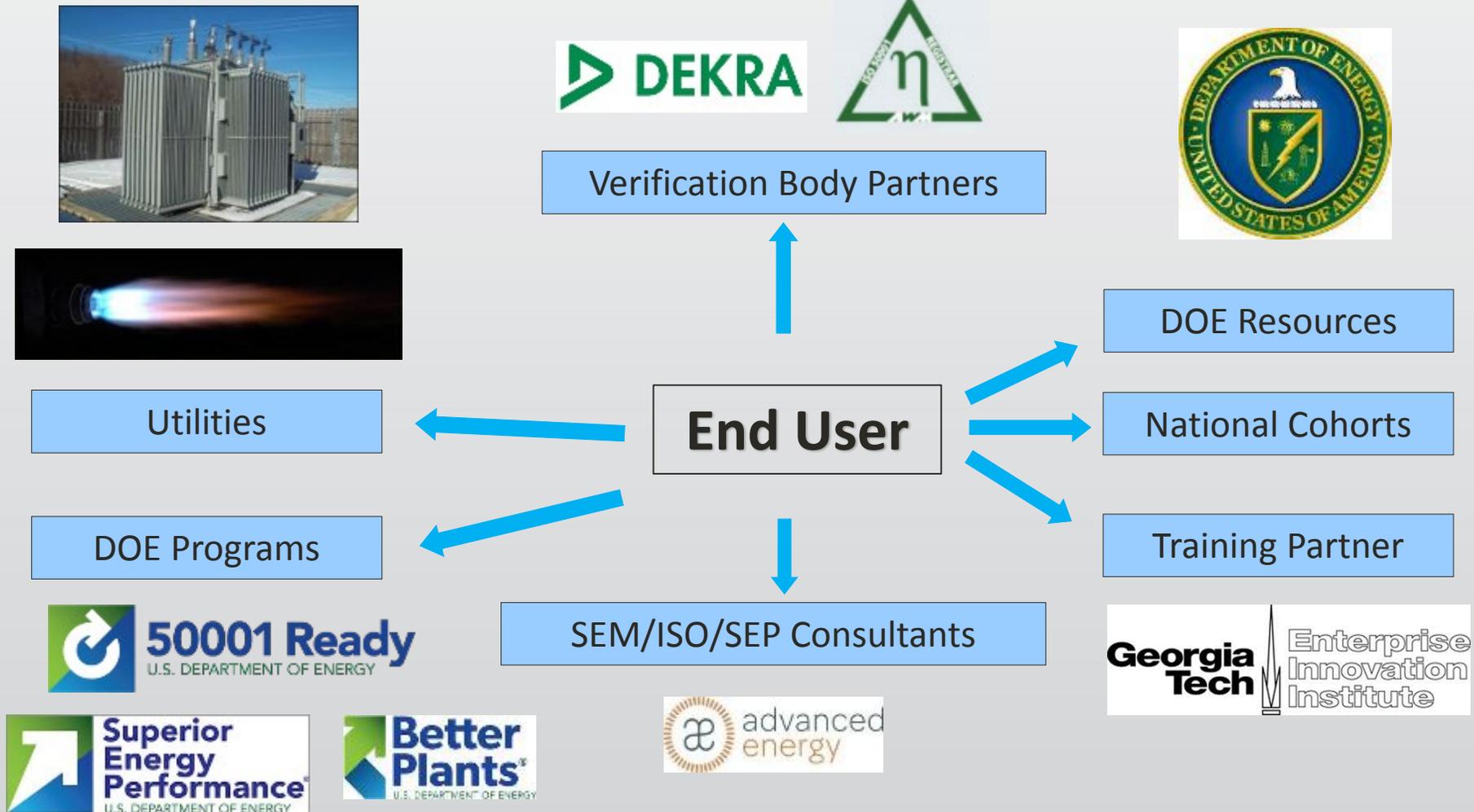


Summary: 50001 Ready

- Worth the effort
- An alternative
- Help for the weary
- A heavy lift needs leverage
- The right tools
- Task-by-Task
- Dashboard tracking
- Great resources
- Self Attesting
- **FREE**



Right in the Middle of 50001



Survey Says.....

- 4 out of 5 energy consultants surveyed* recommend



50001 Ready
U.S. DEPARTMENT OF ENERGY

- To prevent this from happening to your Energy Team



Questions



Michael Stowe
(919) 857-9043 {desk}
(919) 904-0279 {cell}
mstowe@advancedenergy.org
www.advancedenergy.org



Thank You



909 Capability Drive
Suite 2100
Raleigh, NC 27606







WISCONSIN

WISCONSIN IS IN FOR 50001 READY

Presented by: Tim Dantoin and Mark Stover

October 9, 2019

What is FOCUS ON ENERGY®?



- Wisconsin's statewide energy efficiency and renewable energy program
- Partnership with five IOUs and over 100 municipal and co-op utilities across the state
- Working with eligible residents and businesses since 2001
- Provides financial, technical, educational and other resources to encourage energy savings and reduced utility bills

Support for Business Customers

- Technical and project support from Energy Advisors (EA) from Focus on Energy
- EAs coordinate with customers, utility account reps and Trade Allies
- Technical support includes:
 - Identifying opportunities
 - Quantifying opportunities
 - Incentive applications
 - Improving energy management

Wisconsin's SEM Initiative



Challenge Us !!

- Inspired by conversation with an active Focus customer
- Great support from the Focus on Energy Program Administrator
- Launched in 2015 with 30 participants
- Concluded in 2018 with 27 reaching their self-imposed SEM “finish line”
- 5 participants achieved ISO 50001 Certification
- 8 participants achieved or pursuing 50001 Ready recognition from US DOE
- Led to ongoing SEM offering to next round of customers

SEM Leader - Participants



Our SEM Implementation Process

| Period | SEM Partners | | | |
|-------------------|--|--|--|--|
| Zero to 12 Months | <ul style="list-style-type: none"> • Develop a regression model of energy use in baseline period • Establish process for routine data gathering and performance tracking • Complete initial energy review to understand significant energy uses • Identify and implement opportunities for improving energy performance • Review existing Energy IT capabilities & opportunities for improvement • Evaluate energy savings during performance period • Hold management review to assess progress and determine path forward | | | |
| | Discontinue SEM | Remain SEM Partner | Become SEM Leader | |
| | Beyond 12 Months | Stay engaged with Focus on Energy EA to pursue opportunities on a case-by-case basis | Continue pursuing opportunities, tracking performance, assess Energy IT capabilities | Pursue ISO 50001 certification, 50001 Ready status or 3rd Party Certification of SEM efforts |

Utilizing 50001 Ready

- Gauge customer understanding of and readiness for SEM / ISO
- Endpoint goal for customers willing / ready for ISO
- Resource guide for SEM / ISO implementation
- Earn customer recognition of achievements (internally and externally)
- Jumping off point for pursuing ISO certification

Utilizing 50001 Ready

Benefits

- Clearly defined structure for SEM efforts
- Specific endpoint for SEM efforts

Challenges

- Integrating with existing continuous improvement systems (e.g. quality & environment)

Going Forward

- Use 50001 Ready as an internal audit tool
- Pursue an enterprise approach across multiple facilities
- Consider supply chain implementation

Customer Experience



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NEENAH



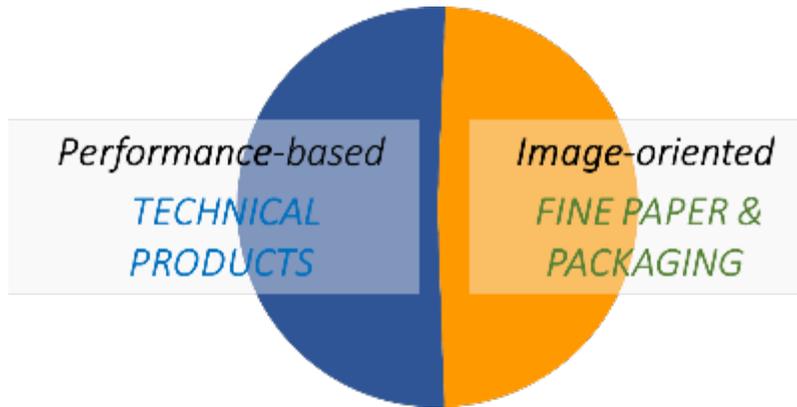
Neenah Inc. 50001 Ready

**Jon Waterman, Operations
Engineer**

Neenah, Inc. – Whiting Paper Mill



Neenah Inc. Today



- Leading manufacturer of specialty materials for niche markets
- Total Employees: > 2,500
- Global Sales of ~\$1 Billion in 80+ countries
- Headquartered in Alpharetta, GA

Whiting Paper Mill

- 245 employees, 24/7 operation
- 4 paper machines, 345 tons/day
- 2 natural gas boilers generate steam
- Converting department on-site



Product Portfolio



Box Wrap & Set-Up Boxes



Label



Folding Carton



Wide Format



Paper Card & Carrier



Commercial Print & Identity



Filtration



Backings



Specialties

Commitments & Benefits

- Facilitate energy-related projects
- Energy Team Meetings – Multi-functional

| Year | Project Title | Project Cost | Annual Savings | Annual Energy Saved | |
|------|-----------------------------|-------------------|-------------------|---------------------|------------------|
| | | | | Therms | kWh |
| 2015 | Boiler Blowdown Upgrade | \$ 290,000 | \$ 94,000 | 192,300 | |
| | Refiner Upgrade | \$ 362,000 | \$ 124,000 | | 2,319,146 |
| | Freshwater Reduction | \$ 110,000 | \$ 47,000 | 49,637 | |
| | Annual Totals | \$ 872,000 | \$ 312,000 | 291,574 | 2,319,146 |
| 2016 | Condensate Heat Recovery | \$ 90,000 | \$ 22,122 | 44,243 | |
| | Lighting Efficiency | \$ 92,000 | \$ 29,000 | | 502,290 |
| | Annual Totals | \$ 862,000 | \$ 387,126 | 409,909 | 1,187,739 |
| 2017 | Mill Insulation | \$ 85,000 | \$ 27,000 | 81,169 | |
| | Process Water Heat Recovery | \$ 254,000 | \$ 169,000 | 211,348 | 179,176 |
| | Annual Totals | \$ 519,000 | \$ 292,580 | 381,649 | 934,121 |
| 2018 | Steam Trap Survey | \$ 12,000 | \$ 25,000 | 40,708 | |
| | VFD for Process Pumps | \$ 151,702 | \$ 42,700 | | 281,448 |
| | Annual Totals | \$ 195,702 | \$ 183,975 | 167,376 | 281,448 |
| 2019 | Dryer Hood Heat Recovery | | | | |
| | Agitator Upgrades | | | | |
| | Closed-Loop Sealing Systems | | | | |

- SEM Leaders Initiative – \$113,771 granted in 2018



50001 Ready Status

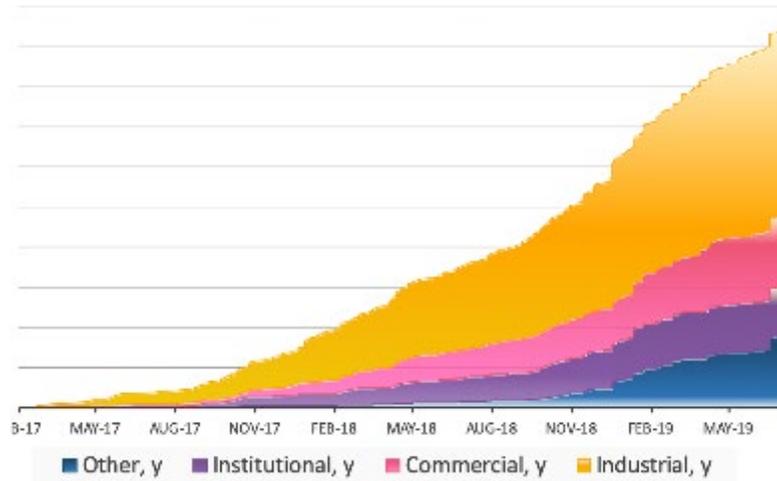
- **June 8th, 2018** – Neenah Inc. Whiting Mill recognized for “instituting global best practices in continuous energy improvement.”
 - 1st paper mill in Wisconsin to achieve 50001 Ready Status
- Maintain program infrastructure
 - US DOE 50001 Ready Navigator Tool
- **Commitment to Sustainability**



- **Program participation**
- **Program offerings**
 - Resource review
 - Navigator 3.0 transition
 - 50001 Ready recognition and promotion
 - Utilities and partners engaged with 50001 Ready
- **US TAG to TC30142**
- **50001 Ready news and updates**

50001 Ready Navigator Participation

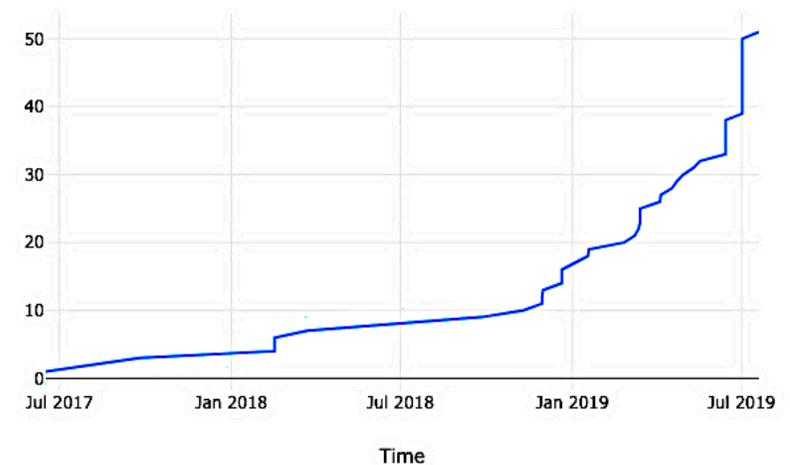
Growth by Industry Sector



- ✓ 50% Industrial
- ✓ 20%, commercial
- ✓ 15% institutional
- ✓ 15% other

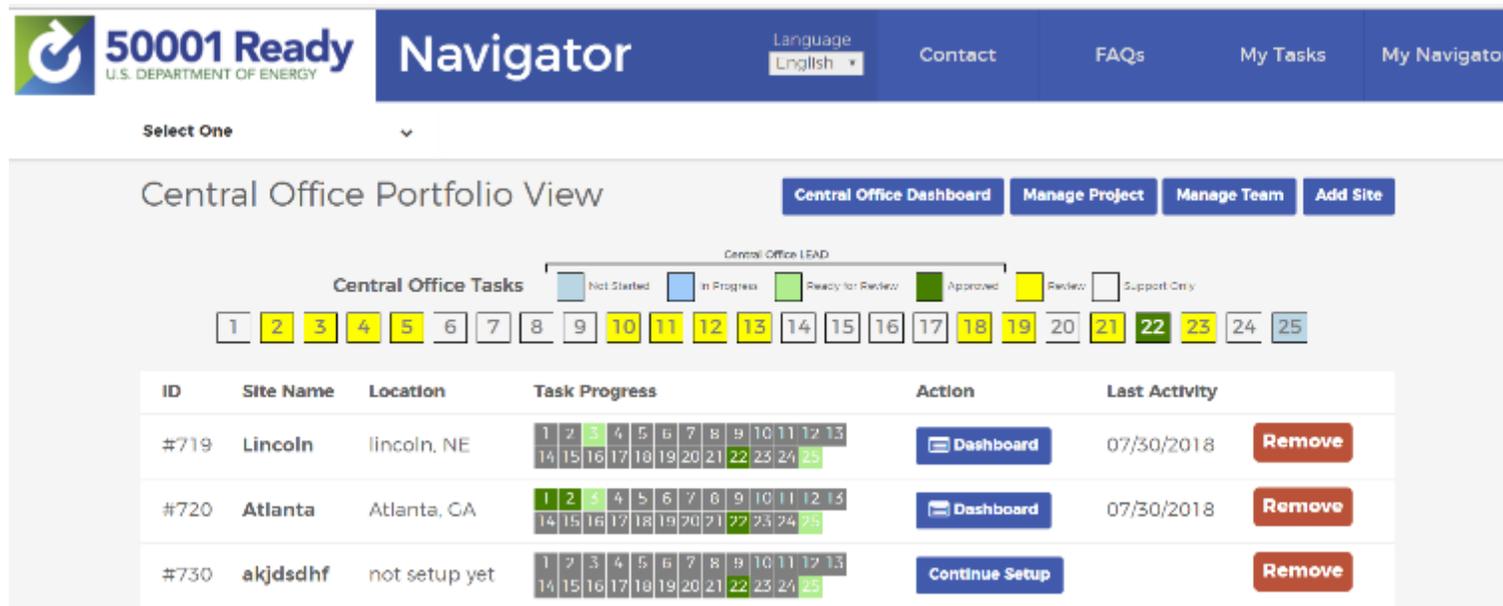
- ✓ 52 Recognized facilities
- ✓ Exponential growth observed since 2018 due in part to:
 - ✓ Expansion of 50001 Ready program offerings and
 - ✓ Partnerships with Utilities and Implementers

Approved Recognitions



Resource Review: Navigator Multisite

- ✓ Reduce time & cost of implementing *50001 Ready* across multiple facilities
- ✓ Enter and manage multiple sites in one portal
- ✓ Allows for ‘central office’ review, communications or completion of tasks
- ✓ Usable by agencies, sites, utilities, ESCOs etc.

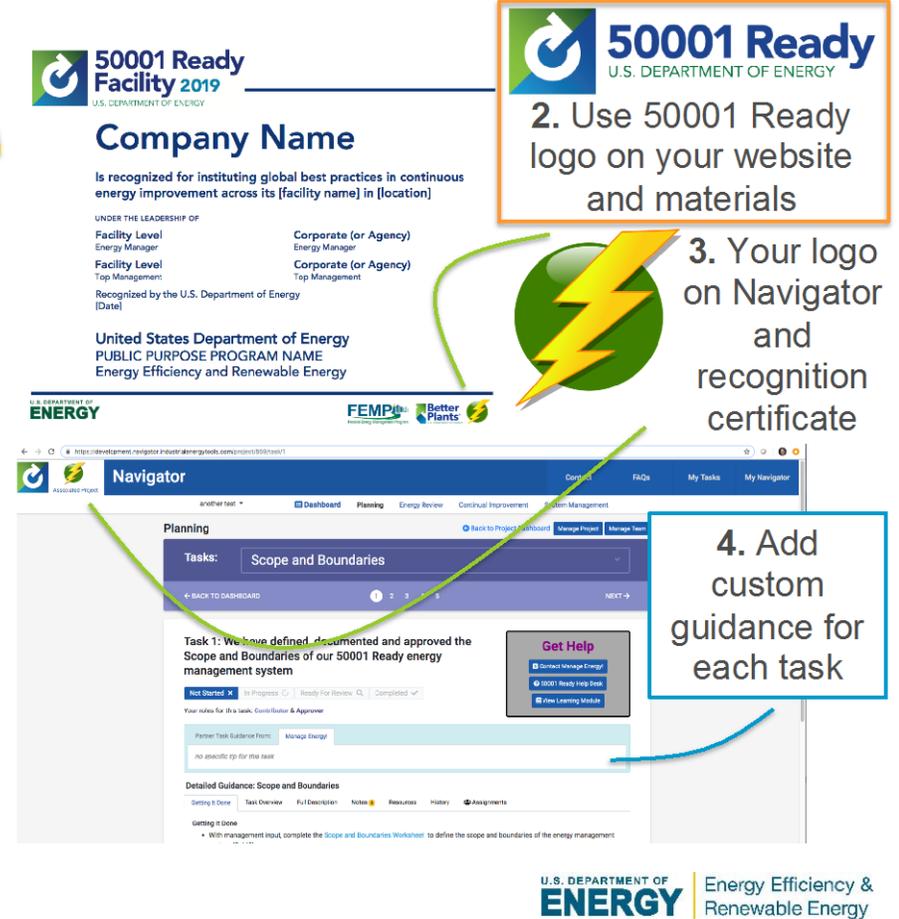
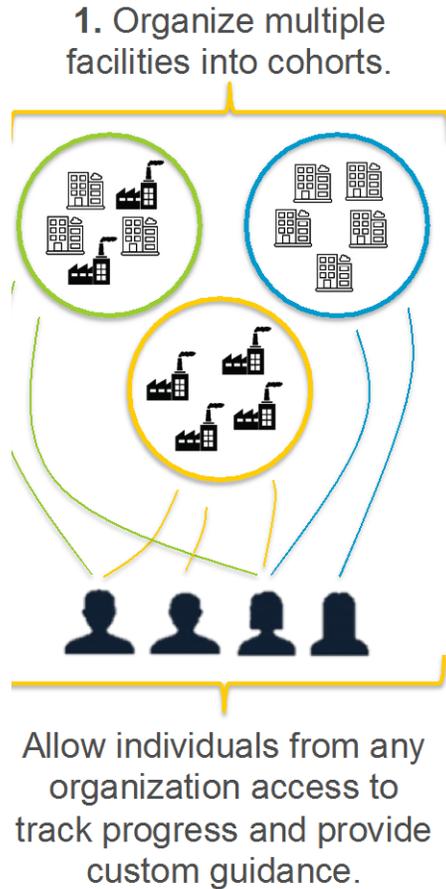


The screenshot shows the '50001 Ready Navigator' interface. At the top, there is a navigation bar with the logo, 'Language' set to 'English', and links for 'Contact', 'FAQs', 'My Tasks', and 'My Navigator'. Below this is a 'Select One' dropdown menu. The main content area is titled 'Central Office Portfolio View' and includes buttons for 'Central Office Dashboard', 'Manage Project', 'Manage Team', and 'Add Site'. A 'Central Office LEAD' section contains a legend for task statuses: Not Started (light blue), In Progress (medium blue), Ready for Review (green), Approved (dark green), Review (yellow), and Support Only (white). Below the legend is a row of 25 numbered task cards, with cards 2, 3, 4, 5, 10, 11, 12, 13, 18, 19, 21, 22, 23, and 25 highlighted in yellow. The main table displays three task entries:

| ID | Site Name | Location | Task Progress | Action | Last Activity |
|------|-----------|---------------|--|--------------------------------|-----------------------------------|
| #719 | Lincoln | lincoln, NE | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 | Dashboard | 07/30/2018 Remove |
| #720 | Atlanta | Atlanta, GA | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 | Dashboard | 07/30/2018 Remove |
| #730 | akjdsdhf | not setup yet | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 | Continue Setup | Remove |

- ✓ Support, observe, and report on multiple projects
- ✓ No direct controls over projects
- ✓ Legal use of DOE 50001 Ready logos and Co-branded Navigator & recognition
- ✓ Usable by agencies, sites, utilities, ESCOs etc.

What can you do with the partner platform?



2. Use 50001 Ready logo on your website and materials

3. Your logo on Navigator and recognition certificate

4. Add custom guidance for each task

U.S. DEPARTMENT OF ENERGY | Energy Efficiency & Renewable Energy

DOE is restructuring the Navigator to better align with the changes issued in the **ISO 50001:2018 standard**

- ✓ Anticipate full transition by Jan 2020

If you are ready to get **READY** now, there is no need to wait! --- DOE is working hard to ensure a seamless transition for anyone in progress.

- ✓ Additional resources:

- ✓ [ISO 50001:2011 to 2018 Transition Guide](#) Created by the DOE, LBNL, and the US TAG to navigate this revision including:

- ✓ Section by section comparison of changes
- ✓ Addition of High Level Structure (HLS) as found in other popular ISO standards (14001 / 90001)

- ✓ ISO 50001:2018 standard is available through the [Georgia Institute of Technology](#)



| 50001 Ready Navigator Tools | | |
|--|---------------------------------|---|
| This page lists all 14 tools of the 50001 Ready Navigator. | | |
| Initial Planning | | |
| Task 1 | Engagement Objectives | Develop, define, document, and approve the Scope and Boundaries for a 50001 Ready energy management system. |
| Task 3 | Energy Policy | Develop and update energy management policy, based on requirements for management of energy. |
| Task 3 | Management Commitment | Develop management commitment and objectives for the 50001 Ready system, and the owner of the roles and responsibilities. |
| Task 4 | Energy Team | Develop roles and responsibilities of all stakeholders, design the energy team, and assign and define the roles and responsibilities for each role in the energy management system. |
| Task 5 | Risk Assessments | Develop detailed energy related legal requirements that apply to the operations, and potential risks to the organization that may result from non-compliance with the standard. |
| Core Energy System | | |
| Task 6 | Data Collection | Develop detailed energy measurement and monitoring procedures and data energy management. |
| Task 7 | Data Analysis | Develop and use energy consumption data to improve energy efficiency. |
| Task 8 | Significant Energy Users (SEUs) | Develop detailed energy conservation strategy and detailed energy conservation plan, with a focus on SEUs, and a list of measures to improve energy efficiency. |
| Task 9 | Baseline Evaluation | Develop detailed baseline of energy that is the energy consumption of the facility with all SEUs included. |
| Task 10 | Performance Indicators (PIs) | Develop detailed energy performance indicators (PIs) to monitor and measure energy efficiency to determine the operating team. |
| Task 11 | Energy Monitoring (EM) | Develop roles and responsibilities of the energy management system, and the energy management system, and the energy management system. |
| Task 12 | Improvement Opportunities | Develop detailed energy conservation measures and energy conservation plan, and the energy conservation plan. |
| Task 13 | Improvement Projects | Identify, document, and implement energy conservation measures and projects, and the energy conservation plan. |
| Energy Conservation Improvement | | |
| Task 14 | Reporting | Develop energy conservation and energy management plan, and the energy conservation plan. |

Learn more at: energy.gov/50001ready

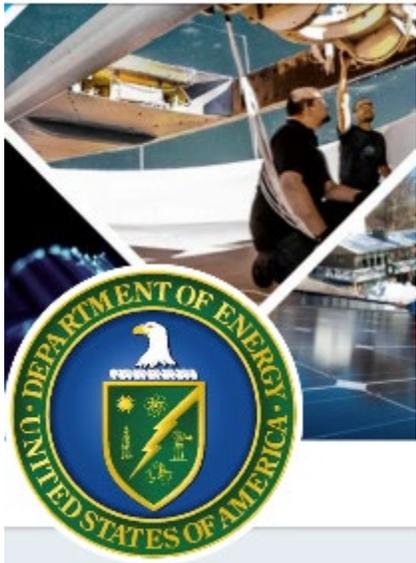
DOE will help you promote your 50001 Ready success!

50001 Ready Partners and Facilities receive:

- ✓ DOE facility certificates of recognition
- ✓ Project showcase to highlight your achievements
- ✓ Promotional package tailored to your needs:
 - ✓ Your company logo featured on DOE 50001 Ready sites
 - ✓ Project showcase to highlight your achievements
 - ✓ Access to customizable press material and resources

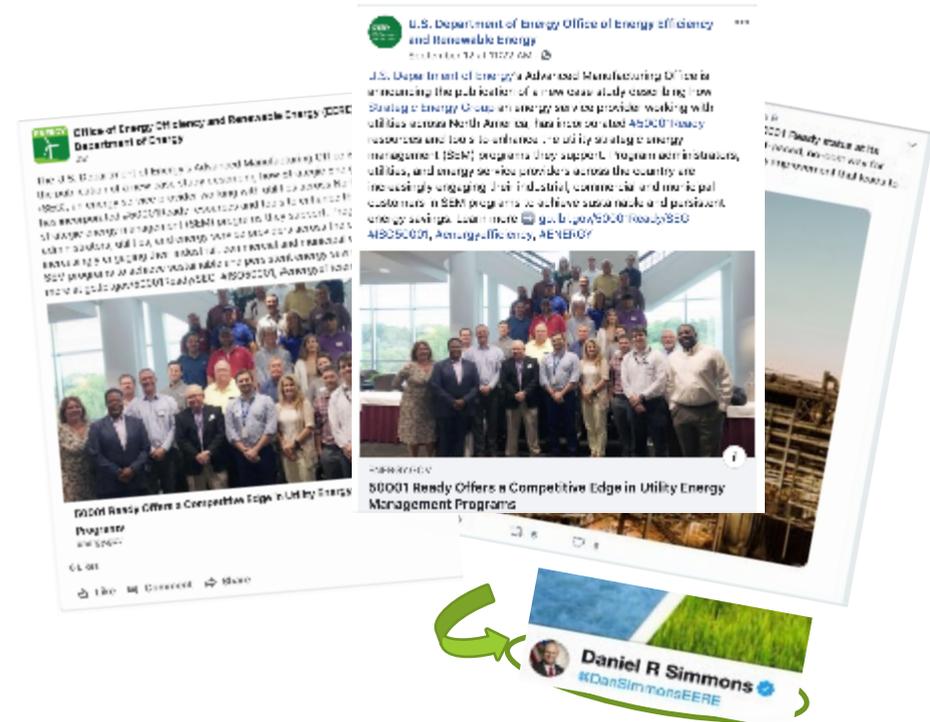


- Through 50001 Recognition, increase attention, reach, and recognition for participating utilities and implementer programs
- When facilities self attest to the completion of 50001 Ready, DOE helps to promote the success of the facility, implementer, and utility through project showcases and implementer case studies.



Links to latest Project Showcases and Case Studies

- go.lbl.gov/50001Ready/SEG
- go.lbl.gov/50001Ready/Tronox
- go.lbl.gov/50001Ready/ArcelorMittal



Interested in making global impact to the further advancement of energy management?

The **US Technical Advisory Group (TAG) to ISO Technical Committee (TC) 301** is the official ANSI TAG responsible for representing US positions on energy management, efficiency, and savings standards being developed internationally.

Why Join the US TAG to ISO TC 301?

Gain a better understanding of, and influence over, new and upcoming energy-related standards:

- ✓ **Technical Influence** - Represent the US position in working groups developing ISO standards in TC 301
- ✓ **Early Access** – Provide input to evolving standards
- ✓ **Professional Development** - Interact and learn from other technical experts, create a personal network, and hear global perspectives on important issues.
- ✓ **Leadership** - Develop experience in teamwork and in the art of consensus building.

To learn more contact Deann Desai, TAG Administrator, at deann.desai@innovate.gatech.edu



ISO Technical Committee 301, 2019 Plenary Meeting, Vienna, Austria

**US TAG to ISO TC 301 is not a DOE program, but a professional membership offered on a fee-based structure with multiple levels of entry options available.*



How do energy efficiency program administrators use 50001 Ready?

- ✓ Private and public organizations are incorporating the continual improvement practices from the 50001 Ready Navigator into their business-to-business and utility program offerings.
- ✓ DOE is seeking to partner with U.S.-based organizations to expand the use and increase end-user benefits of 50001 Ready assets.

Utilities and Partners already engaged with 50001 Ready:



Other 50001 Ready updates

- Playbook 2.0 – feedback wanted!
 - <https://betterbuildingsolutioncenter.energy.gov/iso-50001/50001Ready/resources/50001-ready-navigator-playbook>
- See you in Minneapolis, MN! We are excited to meet you at: 2019 ACEEE Energy Efficiency as a Resource Conference.
- Manufacturing Energy Assessment Software For Utility Reduction (MEASUR)
 - Integrated software suite to aid manufacturers as they improve the efficiency of energy systems and equipment within a plant



Questions + what's coming up

Visit the 50001 Ready website at energy.gov/50001Ready

- Download sample utility partner profiles and program implementation guides
- Find links to the Navigator and EnPI Lite

Stay informed

- NEW CONTACT [ethan.rogers @ee.doe.gov](mailto:ethan.rogers@ee.doe.gov) to add others to this utility network distribution list

As we wish Sandy Glatt a fond farewell, the 50001 Ready program warmly welcomes Ethan Rogers to the 50001 Ready team!



- Sign up at energy.gov/50001Ready for email updates about ISO 50001 and related DOE programs

Questions?