



50001 Ready
U.S. DEPARTMENT OF ENERGY

U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
Renewable Energy



50001 Ready
Utility Network Series
May 2018

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

Welcome + Logistics

Welcome to the first ever DOE 50001 Ready Utility Network Series meeting!

- Today's presenters
 - Paul Sheaffer, Lawrence Berkeley National Laboratory
 - Ed Birch, Strategic Energy Group
 - Randy Groff, Four Seasons Produce
 - Arian Aghajanzadeh, Lawrence Berkeley National Laboratory

- Logistics
 - You are on mute by default; use the chatbox to ask questions at any time
 - We will take breaks for open questions and discussion
 - Session is being recorded
 - Slides will be emailed afterwards
 - Double click screen or press escape to exit full screen view
 - Zoom webinar control bar is at the bottom or top of your screen

Today's Agenda

- **Leveraging 50001 Ready for Customers who Participated in a Utility SEM program, Ed Birch @ Strategic Energy Group**
 - + Four Seasons Produce, the first ever 50001 Ready recognized facility! Randy Groff @ Four Seasons Produce
- US DOE 50001 Ready Webpage and Resources for Utilities and Implementers

Questions?

- Purpose of this call
- Logistics

Continuous Energy Improvement to 50001 Ready





power[®]

PPL ELECTRIC UTILITIES

Continuous Energy Improvement



Reduce energy use 5 to 15 percent Support for you, and your staff,



PPL Electric Utilities

STRATEGIC ENERGY GROUP
PROVIDING BUSINESS ENERGY SOLUTIONS

CEI PROGRAM INFORMATION

Target Audience:

- 10 manufacturing
- Spend Over \$500,000/ year in Energy

Workshops & Webinars:

- Workshop or Webinar held monthly
- Working sessions to accomplish goals
- Cohort approach to increase learning
- Monthly individual consulting support

Participant Commitment:

- Sign Participant Agreement
- Provide Energy & Production Data
- Participate in Workshops & Webinars
- Devote Time to Energy Objectives
- Desire to Save Energy

CEI Activity Calendar

CEI Program Kickoff	CEI Program Review
Energy Management Assessment	Energy Business Practice Action Items
Energy Policy/Team/ Map	Energy Goal / Energy Profile
Performance Tracking Model	Regression CUSUM model
Operations & Maintenance	O&M savings opportunities
Mid Term Report	Participant Progress Report
Energy Mapping	Value Stream Map (Lean Mfg.)
Energy Metrics	Adopting Energy Metrics
Energy Awareness	Energy Awareness Plan
Energy Team Mentoring	

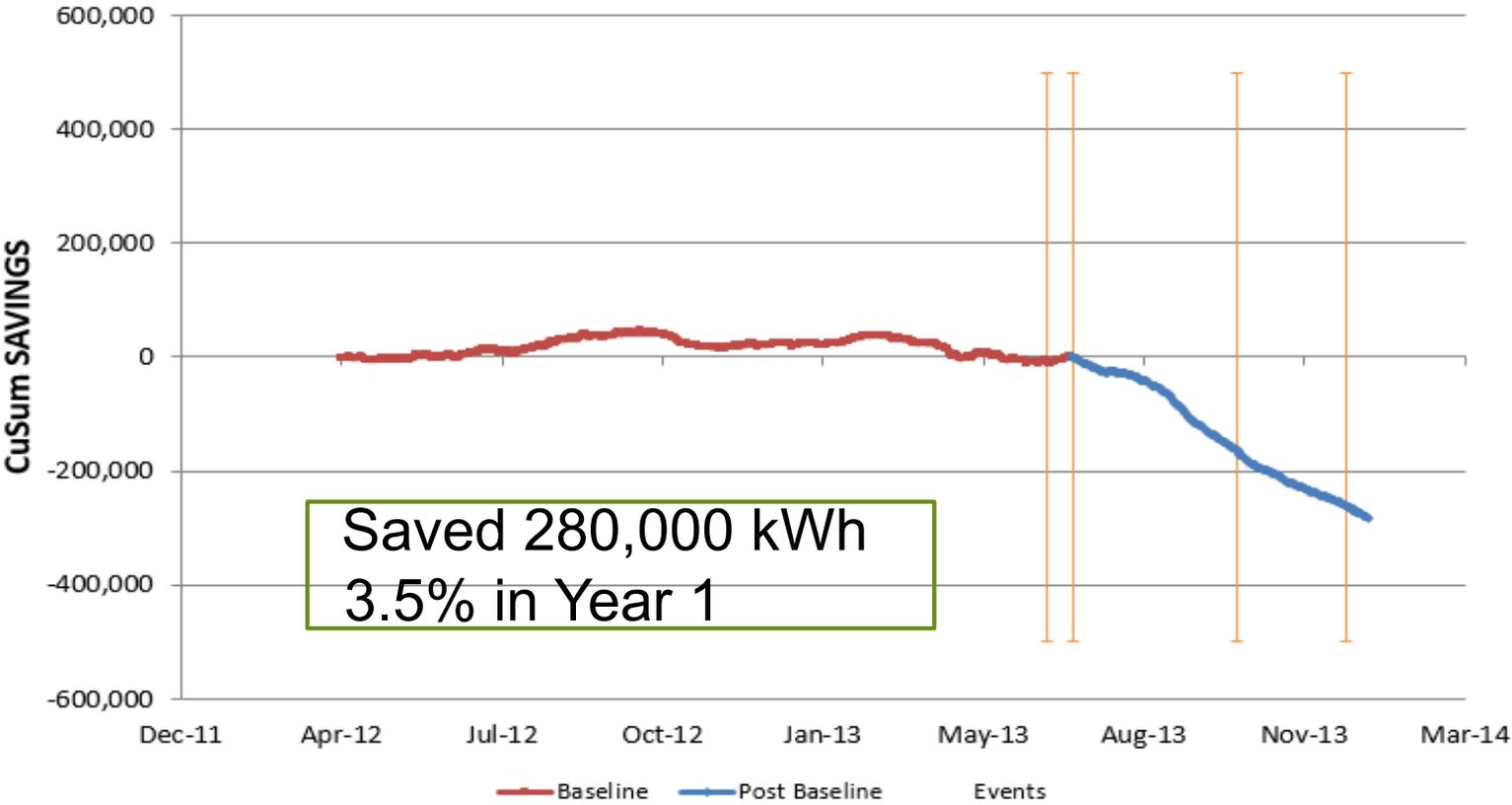




Four Seasons Produce

Ephrata, PA

kWh CuSum SAVINGS



Saved 280,000 kWh
3.5% in Year 1

50001 Ready Recognizes Sustained Performance

										KWH if no CEI program
Period	Months	Production	kWh	Residual	% saved	CUSM Total		kWH/case		
4/1/2012	6/30/2013	16	Baseline period							
7/1/2013	5/8/2014	9	12,310,643	6,298,615	444,618	7.1%	444,618	0.51164		
5/9/2014	5/8/2015	12	15,979,883	7,955,840	127,197	1.6%	571,816	0.497866		
5/9/2015	5/8/2016	12	16,906,260	7,894,368	436,092	5.5%	1,007,907	0.466949		
5/9/2016	5/8/2017	12	18,343,557	8,051,516	492,747	6.1%	1,500,654	0.438929		
5/9/2017	5/8/2018	12	19,826,136	8,258,633	247,861	3.0%	1,748,515	0.416553		
			24.1%	3.8%	1,748,515				18.58%	10,143,840
								\$0.07	\$135,734.93	1,885,207

Key Actions in 50001 Ready

- 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

The US DOE 50001 Ready provides recognition for adopting a comprehensive Energy Management Process



Questions?

- 50001 Ready for customers previously engaged in a utility SEM program
- 50001 Ready at Four Seasons Produce

ENERGY.GOV/50001READY

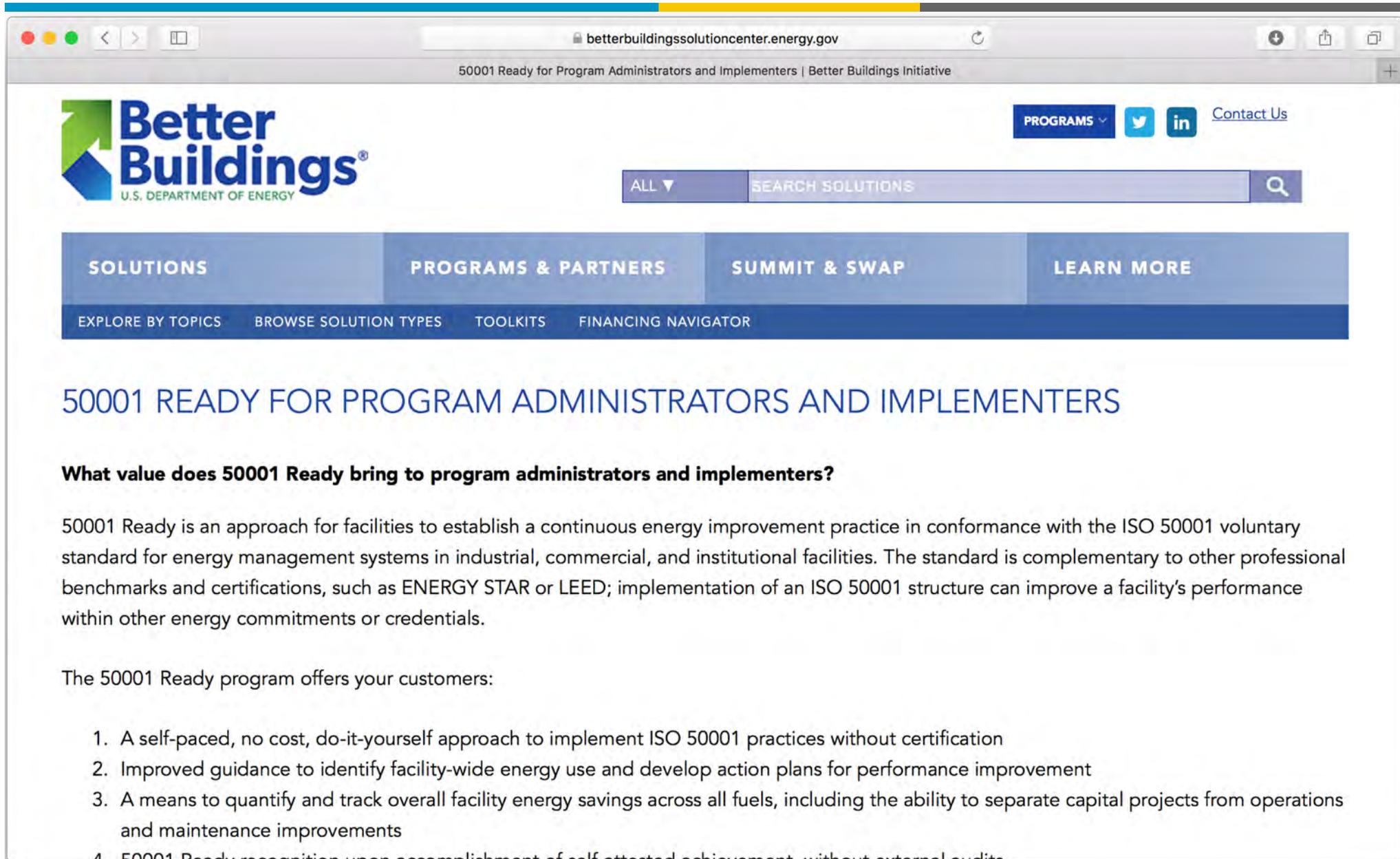
The screenshot shows the website betterbuildingsolutioncenter.energy.gov. The main navigation bar includes 'SOLUTIONS', 'PROGRAMS & PARTNERS', 'SUMMIT SWAP', and 'LEARN MORE'. Under 'SUMMIT SWAP', the '50001 READY' link is highlighted with a red arrow. Below this, the 'ENERGY MANAGEMENT SOLUTIONS' sub-menu is circled in red, containing links for 'For Facilities & End Users' and 'For Utilities & Implementers'. Other sub-menus include '50001 READY FACILITIES', 'BROWSE PARTNER MAP', 'GET RECOGNIZED', 'NEWSROOM', 'ABOUT', 'TOOLS & RESOURCES', and 'GET INVOLVED CONTACT'. A 'READ MORE' button is visible on a banner image at the bottom of the page.

50001 READY PROGRAM

The U.S. Department of Energy's 50001 Ready program recognizes facilities and organizations that practice high-quality, data-based energy management. The program does



A Resource for Utilities and Implementers



The screenshot shows a web browser window with the URL `betterbuildingsolutioncenter.energy.gov`. The page title is "50001 Ready for Program Administrators and Implementers | Better Buildings Initiative". The header features the Better Buildings logo (U.S. Department of Energy), a "PROGRAMS" dropdown menu, and social media icons for Twitter and LinkedIn, along with a "Contact Us" link. A search bar contains the text "SEARCH SOLUTIONS" and a magnifying glass icon. Below the search bar is a navigation menu with four main categories: "SOLUTIONS", "PROGRAMS & PARTNERS", "SUMMIT & SWAP", and "LEARN MORE". Under "SOLUTIONS", there are sub-links for "EXPLORE BY TOPICS", "BROWSE SOLUTION TYPES", "TOOLKITS", and "FINANCING NAVIGATOR". The main content area has a large heading "50001 READY FOR PROGRAM ADMINISTRATORS AND IMPLEMENTERS" and a sub-heading "What value does 50001 Ready bring to program administrators and implementers?". The text explains that 50001 Ready is an approach for facilities to establish a continuous energy improvement practice in conformance with the ISO 50001 standard. A list of four benefits is provided:

1. A self-paced, no cost, do-it-yourself approach to implement ISO 50001 practices without certification
2. Improved guidance to identify facility-wide energy use and develop action plans for performance improvement
3. A means to quantify and track overall facility energy savings across all fuels, including the ability to separate capital projects from operations and maintenance improvements
4. 50001 Ready recognition upon accomplishment of self-attested achievement, without external audits

Support for Various Types of Engagement

The screenshot shows a web browser window with the URL `betterbuildingsolutioncenter.energy.gov`. The page title is "50001 Ready for Program Administrators and Implementers | Better Buildings Initiative". The content is organized into three columns, each representing a different engagement option:

- Option A: Direct Customers to 50001 Ready**
Direct your customers to 50001 Ready to enhance their engagement in energy efficiency and support their performance in your energy program.
- Option B: Supplement Your Program**
No matter how you engage your customers, components of the 50001 Ready program can be used to supplement your existing offerings and build customer satisfaction.
- Option C: Adapt or Launch a Program**
Whether you have an existing SEM program or are thinking about launching one, 50001 Ready can help you design a program that unlocks the benefits of EnMS through a best-practice offering.

Option A — Direct your Customers to 50001 Ready

The 50001 Ready program and its resources are simple, free, and applicable to all industries. Enhance your client services by directing your customers to 50001 Ready on the DOE website, as a way for them to improve their energy efficiency and bolster their performance in your energy program. DOE can provide remote technical assistance for all 50001 Ready resources and support utility customer engagement.

[MORE](#)

Option B — Supplement Your Offerings with 50001 Ready

No matter how you engage your customers, the 50001 Ready program can be used to improve client satisfaction and supplement your existing offerings. The 50001 Ready program has been designed to encourage flexibility, allowing you to identify the components most applicable to your

Supporting Materials for Customers

50001 Ready for facilities and end users

- Getting started,
- How do facilities participate in the 50001 Ready program,
- How can 50001 Ready bring value to your business,
- Get started today!

Participant overview

- Overview of the 50001 Ready program for facilities and end users.

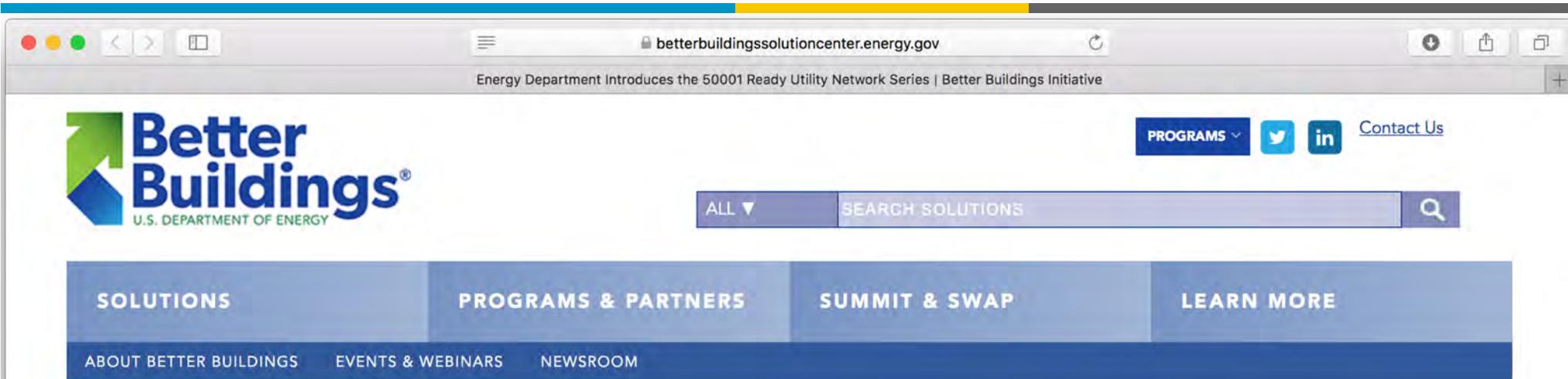
50001 Ready program overview for end users - slides

- Slide deck presenting an overview of the 50001 Ready program for facilities and end users.

New SEM

- A sample utility program design using 50001 Ready to create a new SEM program.

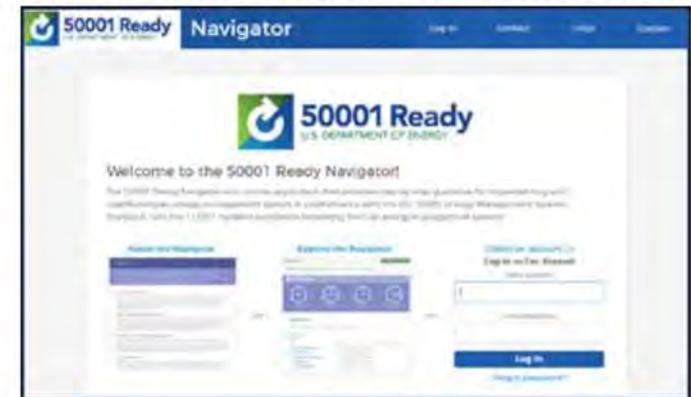
Website for 50001 Ready Utility Network Series



ENERGY DEPARTMENT INTRODUCES THE 50001 READY UTILITY NETWORK SERIES

March saw the launch of the *50001 Ready Utility Network Series*, the U.S. Department of Energy's (DOE) first facilitated forum for utilities, public benefit administrators (PBA), third party implementers, consultants, and regulators who share an interest in energy management systems (EnMS) including and ISO 50001 and DOE's 50001 Ready program. The series provides an opportunity for these various stakeholders to interact and learn from DOE and each other.

The inaugural webinar attracted more than 80 participants. Presenters from DOE and Lawrence Berkeley National Laboratory provided a sound introduction to the series, describing the DOE *50001 Ready Utility Network Series*' purpose, and emphasizing DOE's interest in adding value to utility and PBA communities. The agenda included an overview of the 50001 Ready recognition program, the 50001 Ready Navigator (a web application that provides step-by-step guidance to ISO 50001 implementation), and EnPI Lite (a set of online energy performance tools). Participants also discussed customer recruitment for 50001 Ready types of programs.



Questions?

- 50001 Ready Website and Resources for Utilities and Implementers