

50001 Ready

U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
Renewable Energy



Global FEMP Cohort Kickoff Phase 1

10/17/2024



Welcome!

- Introductions
- 50001 Ready Program Overview
- Introduction to Navigator and (25) Tasks
- Program Timeline
- Pre-Training Assessment
- Next Steps

Your 50001 Ready Implementation Support Team

- Tim Stearns— VEIC
- Eric Weber – VEIC
- Michael Socks – VEIC
- Bunmi Adesola – Lawrence Berkeley National Lab
- Kendall Kam – US DOE/FEMP





U.S. DEPARTMENT OF

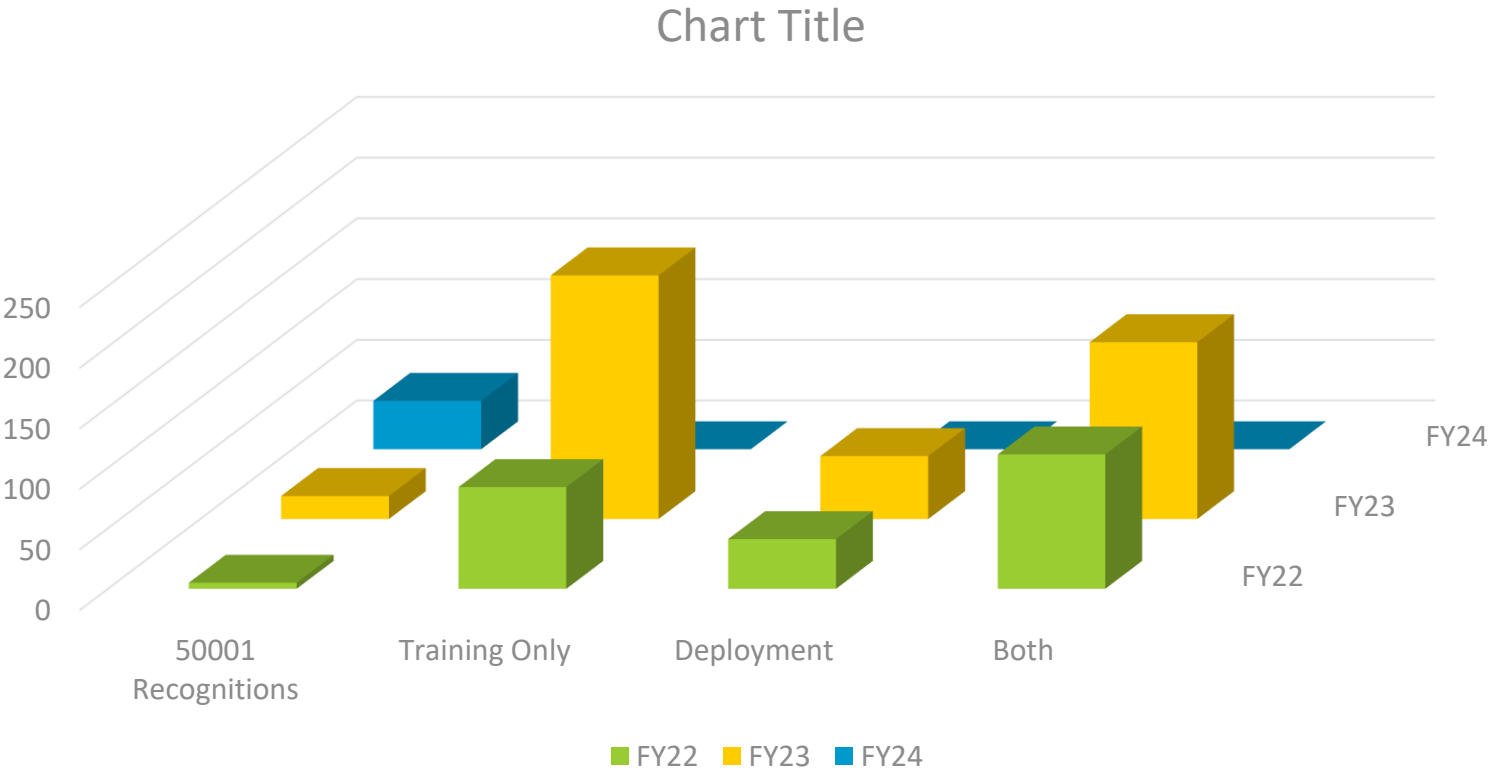
ENERGY

Federal Adoption of Corporate Energy Management Systems (50001 Ready)

October 17, 2024



50001 Ready Metrics



FY24 FEMP 50001 Ready Highlights



Energy Exchange 2024
50001 Ready
Recognition Event

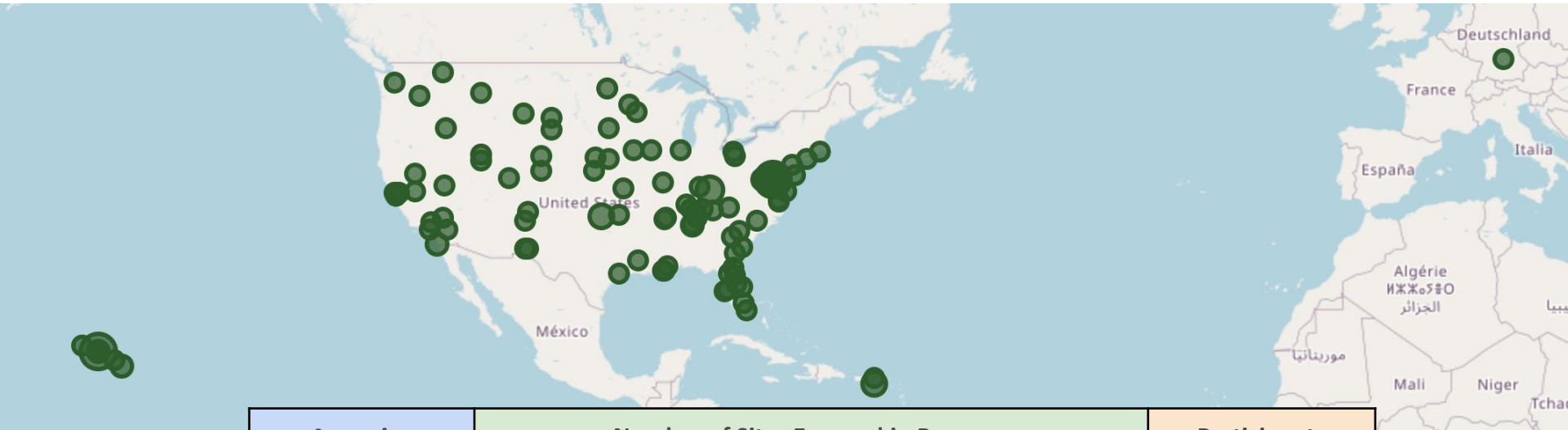


DOE HQ 50001 Ready
Recognition
June 2024. One of the 1st
federal agency HQs
certified 50001 Ready



Oklahoma City-Air Logistics
Complex Energy Team wins the
Clean Energy Ministerial (CEM)
Award of Excellence in Brazil,
October 1-3, 2024, for being the 1st
U.S. government organization
certified to ISO 50001

Federal Sites in 50001 Ready Cohorts



Agencies	Number of Sites Engaged in Program			Participants
	Training	Implementation Track	Total	Total
<u>10</u>	<u>94</u>	<u>53</u>	<u>147</u>	<u>202</u>



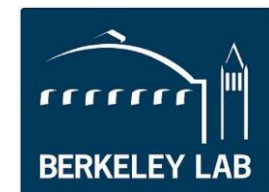
Welcome!

Drop into the chat:

- 1) Your Name**
- 2) Your Job Title**
- 3) Federal Department**
- 4) Site Location**

veic

FEMP
Federal Energy Management Program



Why are you here?

What is 50001 Ready?

What is it and why bother?



50001 Ready and ISO 50001 Overview

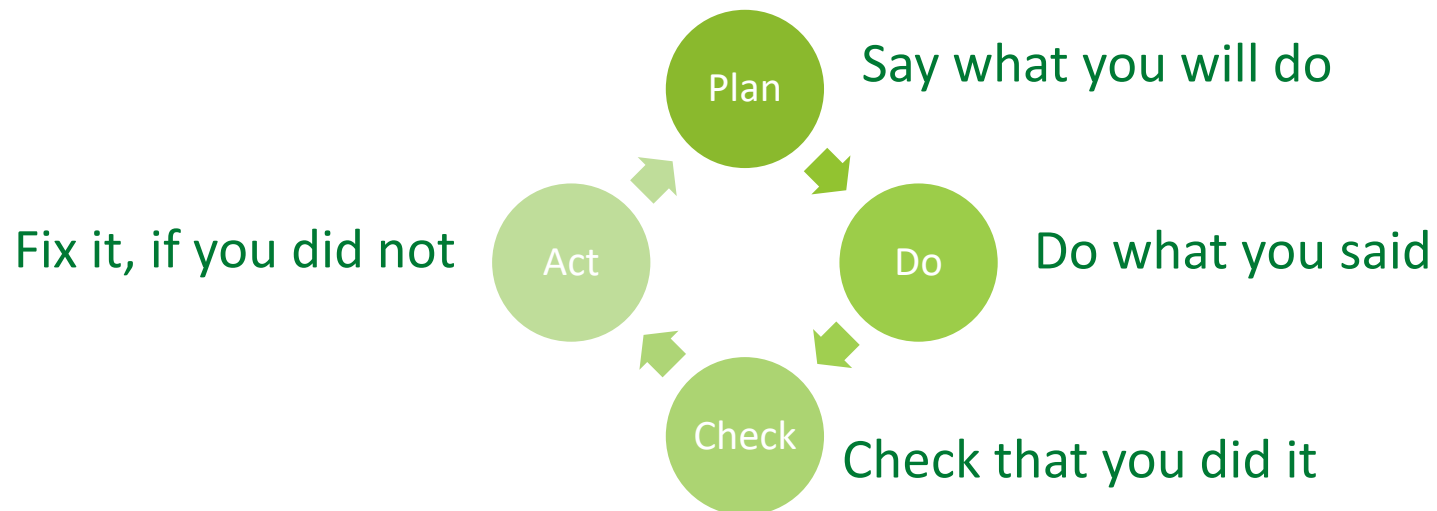
50001 Ready is based on ISO 50001 which provides a framework for an *Energy Management System*: an approach to **continually improve** an organization's practices related to energy that delivers **persistent savings** and **attainment of strategic goals**.

Features:

- Applies the Commit-Plan-Do-Check-Act framework
- Engages all areas of an organization: People, Processes, Technology, and Organizational Structure
- Gives energy a place among other management priorities

Why implement an Energy Management System?

- Aligns improved energy performance with your organization's mission, strategic direction, and goals
- Establishes a consistent energy culture that persists through operational and personnel changes
- Delivers reliable data to improve performance and sustain energy and financial savings over time
- **Delivers results and continuously improves over time**



Why implement an Energy Management System?

What are the benefits for an Organization?

- **Energy cost reduction** through sustained operational and maintenance best practices requiring minimal investment and prioritized capital investments.
- **Alignment of energy management with organizational goals** such as profitability, competitiveness, productivity, sustainability and employee and customer satisfaction.
- **Reduction in environmental footprint** through reduced energy consumption and associated greenhouse gas emissions.
- **Staff engagement** in energy performance improvement by encouraging cross-department collaboration and fostering a culture of continual improvement.
- **Recognition as a global leader** along with a growing list of organizations.

Why implement an Energy Management System?

What are the benefits for Facility Managers?

- Commit** {
 - Context:** Management connects and aligns the benefits of energy management with the overall organizational mission
 - Leadership:** Management commits to supporting energy management efforts and doing their part
- P** {
 - Planning:** Establish better methods for collecting, analyzing, reporting and using energy data – and discover where there are gaps
- D** {
 - Support:** Define new roles, responsibilities, and methods to engage staff in improving energy performance – and become more resilient to staffing changes
 - Operation:** Document best practices to keep major equipment efficient and under control – and detect when it is not
- C** {
 - Performance Evaluation:** Create well-defined energy goals and readily track progress toward meeting them
- A** {
 - Improvement:** Energy management will become easier for all staff, with better results over time

Energy Projects vs. Energy Management System

Efficiency as a *Project*: Business-as-Usual

- Capital-intensive savings
- “Flavor of the month”
- No context for actions
- Extra job for one or a few
- Ad hoc gains, then backsliding

Efficiency as a *Process*: Energy Management System

- No and low-cost savings
- Organizational commitment
- Driven by performance goals
- All staff engaged
- Persistent savings & continuous improvement



Sort of ~



*But how do
you get from
HERE
to
HERE?*

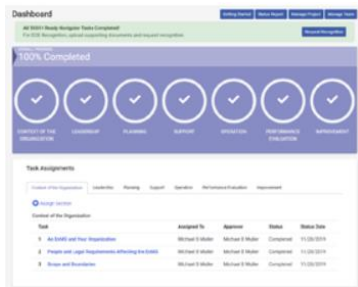


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What you're already doing fits into 50001 Ready

☒	Sustainability Goals	Does your organization have established energy reduction or sustainability goals?
☒	Top-Level Commitment	Has your executive leadership committed to providing resources to manage energy?
☒	Empowered Staff	Is your staff trained and empowered to analyze and improve energy use?
☒	Energy Tracking	Does your facility practice regular tracking of energy spend and consumption?
☒	Systems Familiarity	Do you know which systems and equipment consume the most energy at your facility?
☒	Experience with Structured Management	Do you have experience with energy or structured management credentials, such as ISO 9001/14001, LEED, or ENERGY STAR?

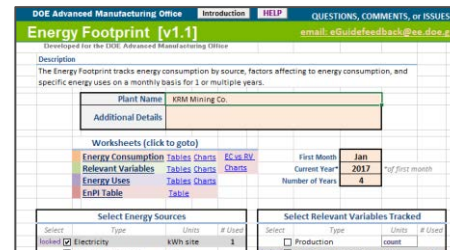
- A self-paced, **step-by-step framework** to implement a world class energy management system (EnMS).
- Offers **recognition** for self-attesting to conformance to ISO 50001. There is no third-party certification requirement.
- Includes a **suite of resources** to support continuous improvement in institutional, commercial, and industrial facilities including open-source software tools.
- Supports ‘enterprise’ or **multi-facility** EnMS adoption.



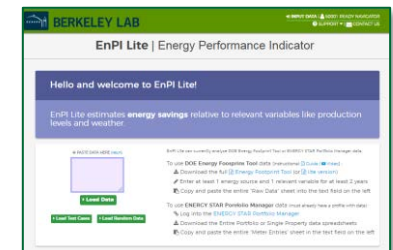
**50001 Ready
Navigator**



**Navigator Task
Worksheets**



**Energy Footprint
Tool**



EnPI Lite Tool

Proposed 50001 Ready Program Timeline

Phase I (October 17th, 2024 @11 am EST) and Phase II (October 24th, 2024 @ 11 am EST)
Training Session #1 on Wednesday, November 20, 2024 @11:00am EST

Program Components:

- Phase 1 & 2 Kickoff webinars and Pre-Assessments
- (7) 2-hour Training Sessions @ 11:00am EST
- (7+) 1.5-hour Working Sessions @ 11:00am EST
- 1:1 Coaching Calls as needed
- Implementation Homework
- Post-Assessments

Pre-Training Assessments conducted in November and December 2024

- = Training Session – 1st Wednesday of the month
- = Working Session – 3rd Wednesday of the month (more if needed)
- = Post-Training Assessments
- = Federal Holidays

January						
Su	Mo	Tu	We	Th	Fr	Sa
			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
26	27	28	29	30	31	

February						
Su	Mo	Tu	We	Th	Fr	Sa
						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	26	27	28	

March						
Su	Mo	Tu	We	Th	Fr	Sa
						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	26	27	28	29
30	31					

April						
Su	Mo	Tu	We	Th	Fr	Sa
		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	26
27	28	29	30			

May						
Su	Mo	Tu	We	Th	Fr	Sa
				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	26	27	28	29	30	31

June						
Su	Mo	Tu	We	Th	Fr	Sa
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	26	27	28
29	30					

July						
Su	Mo	Tu	We	Th	Fr	Sa
		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	26
27	28	29	30	31		

August						
Su	Mo	Tu	We	Th	Fr	Sa
					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	26	27	28	29	30
31						

Are you ready to be 50001 Ready Recognized?

Phase I (October 17th, 2024 @11 am EST) and Phase II (October 24th, 2024 @ 11 am EST)
Trainings Session #1 on Wednesday, November 20, 2024 @11:00am EST

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- Phase 1 & 2 Kickoff webinars and Pre-Assessments
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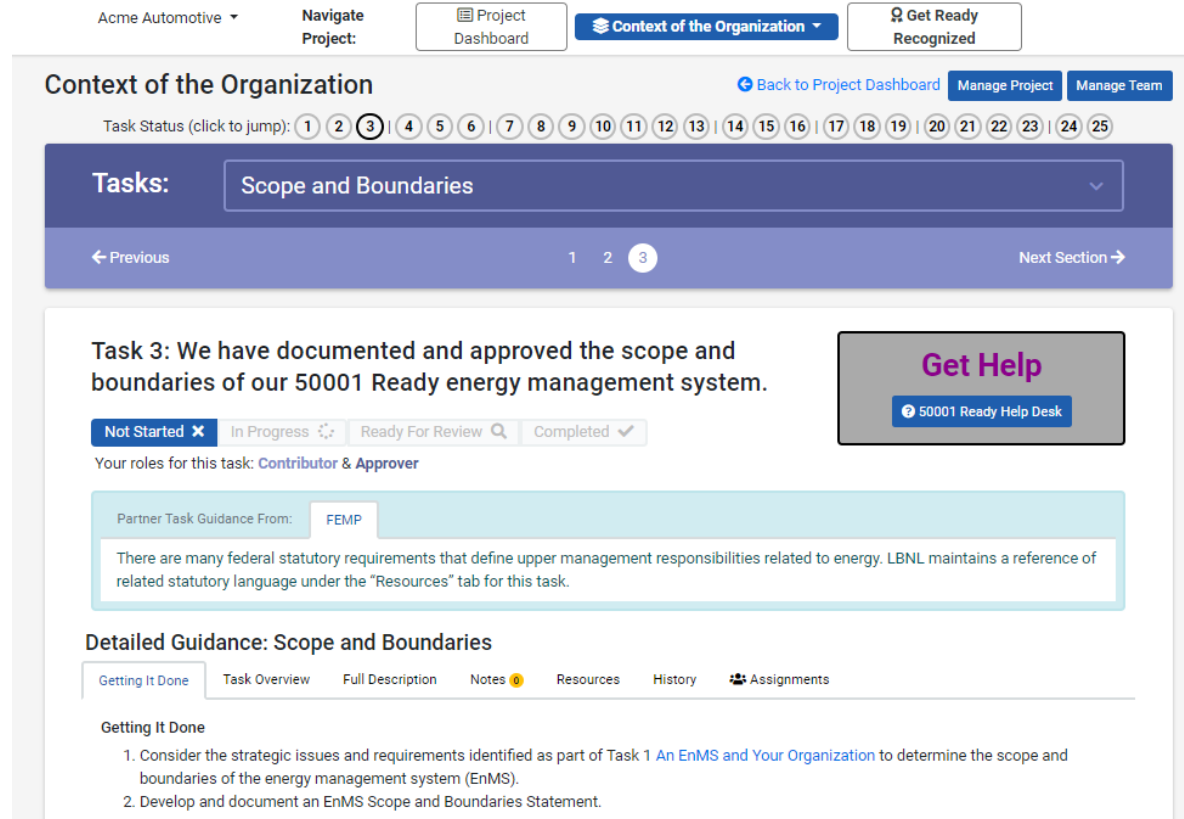
Your level of effort and time investment directly impacts the effectiveness of these trainings.

Time investment:

- Pre-trainings surveys and assessments-2 hours
- Trainings Sessions-14 hours
- Working Sessions-10.5 hours
- Coaching Calls—7 hours
- Homework-75 hours
- Post-training assessments-2 hours
- **TOTAL Time investment is 110.5 hours over 8 months or ~14 hours per month**

Are you ready to be 50001 Ready Recognized?

- ✓ Free 'Turbo Tax-like' tool with step-by-step approach to ISO 50001
- ✓ Assign tasks and leave notes for team members
- ✓ 25 Tasks divided into 7 sections



The screenshot displays the 'Context of the Organization' section of the 50001 Ready Navigator. At the top, there's a navigation bar with 'Acme Automotive' as the project, a 'Project Dashboard' button, and a 'Context of the Organization' dropdown menu. A 'Get Ready Recognized' button is also present. Below this, a 'Task Status (click to jump):' bar shows 25 numbered tasks, with task 3 highlighted. The main content area is titled 'Context of the Organization' and includes a 'Back to Project Dashboard' link, 'Manage Project', and 'Manage Team' buttons. A 'Tasks:' dropdown menu is set to 'Scope and Boundaries'. Below this, a progress bar shows 'Previous', '1', '2', and '3' (highlighted), followed by 'Next Section'. The main task description for 'Task 3: We have documented and approved the scope and boundaries of our 50001 Ready energy management system.' is shown, with status buttons for 'Not Started', 'In Progress', 'Ready For Review', and 'Completed'. A 'Get Help' button with a '50001 Ready Help Desk' link is also visible. Below the task description, there's a 'Partner Task Guidance From: FEMP' section with a text box stating: 'There are many federal statutory requirements that define upper management responsibilities related to energy. LBNL maintains a reference of related statutory language under the "Resources" tab for this task.' At the bottom, a 'Detailed Guidance: Scope and Boundaries' section includes tabs for 'Getting It Done', 'Task Overview', 'Full Description', 'Notes', 'Resources', 'History', and 'Assignments'. The 'Getting It Done' tab is active, showing a list of steps: '1. Consider the strategic issues and requirements identified as part of Task 1 An EnMS and Your Organization to determine the scope and boundaries of the energy management system (EnMS).', '2. Develop and document an EnMS Scope and Boundaries Statement.'

50001 Ready Navigator Tasks

Commit

Context of the Organization

Leadership

Plan

Planning

Do

Support

Operation

Check

Performance Evaluation

Act

Improvement

- | | | | | | | |
|--------------------------------|----------------------------|--|-------------------------------|--|--|---------------------------|
| 1. An EnMS & your Organization | 4. Management Commitment | 7. Risks to EnMS Success | 14. Competence & Training | 17. Operational Controls | 20. Monitoring & Measurement of the EnMS | 24. Corrective Action |
| 2. People & Legal Requirements | 5. Energy Policy | 8. Energy Data Collection & Analysis | 15. Awareness & Communication | 18. Energy Considerations in Design | 21. Monitoring & Measurement of Energy Performance Improvement | 25. Continual Improvement |
| 3. Scope & Boundaries | 6. Energy Team & Resources | 9. Significant Energy Uses | 16. Documenting the EnMS | 19. Energy Considerations in Procurement | 22. Internal Audit | |
| | | 10. Improvement Opportunities | | | 23. Management Review | |
| | | 11. Energy Performance Indicators (EnPIs) & Baselines (EnBs) | | | | |
| | | 12. Objectives & Targets | | | | |
| | | 13. Action Plans for Continual Improvement | | | | |

Session	Theme	Tasks	November 2024
1	Get Started	50001 Ready Overview	
		Introduction to 50001 Ready Navigator	
		Introduction to Navigator Playbooks	

Session	Theme	Tasks	January 2025
2	Establish Support, Build Your Team, Define Your Mission	1. An EnMS & Your Organization	
		2. People & Legal Requirements	
		3. Scope & Boundaries	
		4. Management Commitment	
		5. Energy Policy	
		6. Energy Team & Resources	
		7. Risks/Opportunities for EnMS	

Session	Theme	Tasks	February 2025
3	Track Your Energy Consumption, Identify & Manage Your Energy Projects	8. Energy Data Collection & Analysis	
		9. Significant Energy Uses (SEUs)	
		10. Improvement Opportunities	
		13. Action Plans	
		17. Operational Controls	

Session	Theme	Tasks	March 2025
4	Choose Your Measuring Stick & Set the Bar	11. Energy Performance Indicators (EnPIs) & Baselines	
		12. Objectives & Targets	
		21. Monitoring & Measurement of Energy Performance Improvement	
		Energy Footprint Tool	
		EnPI Lite Tool	

Session	Theme	Tasks	April 2025
5	Get Everyone on Board	14. Competence & Training	
		15. Awareness & Communication	
		18. Energy Considerations in Design	
		19. Energy Considerations in Procurement	

Session	Theme	Tasks	May 2025
6	Dot Your I's & Cross Your T's, Tell Your Story	16. Documenting the EnMS	
		20. Monitoring & Measurement of the EnMS	
		22. Internal Audit	
		23. Management Review	
		24. Corrective Actions	

Session	Theme	Tasks	June 2025
7	Continual Improvement, Start Again	25. Continual Improvement	
		Tasks 1-24 review, 50001 Ready Recognition	

Where are you now?

We will send you pre-training assessment survey links and guidance on completing them after today's kickoff call.

We will also send you links to our participant survey and site survey; these typically take no more than 10 minutes and provide the DOE with some idea of how many folks are taking these trainings and what size facilities are being impacted.

Your responses will help us target the training sessions and coaching calls to your specific needs and document any gaps in your site-level energy management activities relative to the requirements of 50001 Ready.

- 1) Cohort Kickoff Call Phase 1 
 - Introductions & overview
- 2) Cohort Kickoff Call Phase 2: October 24th @11:00am EST
 - Introduction to the Navigator
 - Help you set up your Navigator account
- 3) Training Calendar:
 - First Session: Wednesday, November 20, 2024 @ 11:00am EST
 - There is no “Homework” associated with this training other than completing the surveys and assessments.
 - There is no scheduled working group session in November or December, but we are available for one-on-one calls.
 - Second Session: Wednesday, January 8, 2025 @11:00 am EST

We will finalize dates and send reminders for all sessions

Please Reach Out with Any Questions

50001 Ready Technical Support Team:

Tim Stearns

VEIC

tstearns@veic.org

Eric Weber

VEIC

eweber@veic.org

Michael Socks

VEIC

msocks@veic.org

Kendall Kam

Program Manager - US DOE FEMP

kendall.kam@ee.doe.gov

(202) 586-9644

Bunmi Adesola

Lawrence Berkeley National Lab

badesola@lbl.gov

We look forward to
working with you!



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[Help Line: 50001Ready@lbl.gov](mailto:50001Ready@lbl.gov)

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Questions?