50001 Ready
Federal Cohort Training Update
Interagency Sustainability Working Group meeting

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Why Consider 50001 Ready?

• Supports federal required reporting and auditing mandates.

• ‘Light lift’ as it builds off of the current Energy or Environmental Management Programs

• Leads to additional no/low cost energy savings through mostly operational improvements

• Provides a standardized approach to energy management transferable across site, state and national borders
50001 Saves Energy and Money!

Verified energy performance improvement:

- Business-as-Usual [EIA] ~1% per year
- Industry Leaders [Better Plants] ~ 2.5% per year
- ISO 50001 facilities [DOE] ~4% per year
- Enterprise-Wide Approach [DOE] ~4-5% per year
What is 50001 Ready?

- **DOE Program to Recognize 50001 Conformance**
  - Recognition for self-attesting to conformance with ISO 50001
  - Process with no certification requirement from third parties
  - Open source software tools, designed to be adopted by states, cities, energy utilities
  - Online tool with simple, step-by-step approach to ISO 50001
  - 25 actionable tasks with Word based Playbooks to complete
  - Ability to support multi-site adoption
  - Applicable for all sectors, especially manufacturing, commercial, institutional, and Federal
  - Canada & Mexico mimicking 50001 Ready recognition
FY20: FEMP 50001 Ready Cohort Training

FEMP Role:

1. Free Structured Training on 50001 Ready
   - Trains Staff on 50001 and the Navigator tool
   - Delivered in 5-7 distance learning
   - FEMP able to add CEUs

2. Ongoing ‘Help Desk’ and Coaching Support on 50001

Agency Role:

1. Signed FEMP-Agency Agreement Form [showing commitment]
2. Participant sites and personnel for the training
3. Coordinate and schedule the training times
FY20 FEMP 50001 Ready Cohorts

Current Planned Agency Cohorts

1. NASA HQ with ~15 sites [completed HQ Kick-Off]

2. Justice: 3 ATF & 2+ FBI sites [completed HQ Kick-Off]

3. VA [in discussion] with 10+ sites [orientation meeting completed]

4. CDC [in discussion] for 3-6 sites [orientation meeting completed]

5. US Navy [in discussion] for SE cohort

6. TVA [in discussion] for TVA service territory electric customers cohort
“The strength of our [ISO 50001] Continuous Energy Improvement program is that we get the people who understand each operation to think about how to do things a little differently – to change their processes in some way to save energy.”

“Energy Improvement is precisely the kind of operational discipline we are good at. We’re just applying that skill in a new way.”

Joseph Cecrle
OC-ALC Energy Manager

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Or visit energy.gov/50001Ready for more info or to get started
FY20 FEMP 50001 Ready Cohorts

Back-Up Information Slides
| ✓ 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? |
50001 Ready and your current work:

Context of the Organization

1. An EnMS and your Organization
2. People and Legal Requirements
3. Scope and Boundaries

Leadership

4. Management Commitment
5. Energy Policy
6. Energy Team and Resources

Planning

7. Risks to EnMS Success
8. Energy Data Collection and Analysis
9. Significant Energy Uses
10. Improvement Opportunities
11. Energy Performance Indicators (EnPIs) and Baselines (EnBs)

Support

14. Competence and Training
15. Awareness and Communication
16. Documenting the EnMS

Operation

17. Operational Controls
18. Energy Considerations in Design
19. Energy Considerations in Procurement

Performance Evaluation

20. Monitoring and Measurement of the EnMS
22. Internal Audit
23. Management Review

Improvement

24. Corrective Action
25. Continual Improvement

Strongly prepared Partially prepared
Trained Resource: 50001 Ready Multi-Site Platform

Central Office Tasks

Dashboard: Access your tasks

Edit Account Information and Central Office Tasks

Add Site

Site Progress

Help sites set up account
Trained Resource: 50001 Ready Playbook

- Standalone Excel file to save on own computer
- Worksheets to catalogue your 50001 energy management system
- Includes mgmt. and staff responsibility tracker
- Satisfies 50001 Ready requirements
- Living Document used to on board new staff (management or staff)
- Can be customized by companies, utilities, program implementers for personalized guidance and information

Note
Agencies can take the Playbook and customize it to match their mission, activities and linkages to internal procedures.
Understanding Continuous Improvement

Efficiency as a Project: Business as Usual

- Different compliance requirements and reporting systems
- Separated groups responsible for each task
- Disconnected energy projects

Performance as a Process: Best Practice Management System

- Policy, objectives, and targets connect different moving pieces
- Dedicated resources and structured time
- Plan and accountability for follow-through
- Data driven and verified savings

‘flavor of the month’  ‘sustained savings’
‘One of many hats’   ‘energy resilience’
50001 & Competitiveness: Increased Resiliency

- Reduce Consumption
- Minimize Vulnerability
- Data Driven Continuous Improvement
- Faster Recovery
- EnMS Documentation
- Institutionalize system knowledge
Component retrofit or systems approach?

Source: U.S. DOE MSMOA, table E-7