

50001 Ready Federal Cohort Training Update

Interagency Sustainability Working Group meeting



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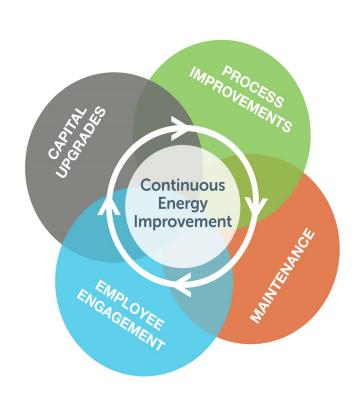




Why Consider 50001 Ready?



- Supports federal required reporting and auditing mandates.
- 'Light lift' as it builds off of the <u>current</u>
 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



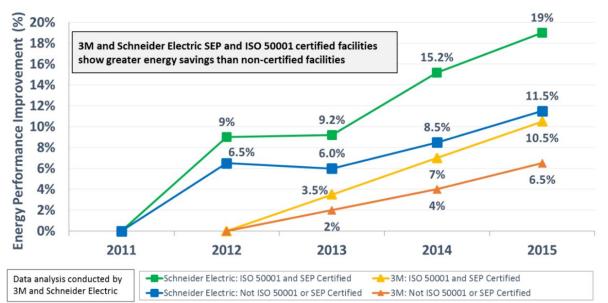
50001 Saves Energy and Money!



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 <u>all sectors</u>, especially manufacturing, commercial, institutional, and Federal
- Canada & Mexico mimicking 50001 Ready recognition

STEP 1

Complete 25 Tasks of 5001 Ready Navigator to Develop Plan



STEP 2

Submit Energy Performance Improvement Data



STEP 3

Self-attestation by Team Leader and Executive



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

Testimonial: Tinker Air Base (USAF base)



"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



Contact <u>Jay.Wrobel@ee.doe.gov</u> or <u>Kendall.Kam@ee.doe.gov</u> Or visit <u>energy.gov/50001Ready</u> for more info or to get started

FY20 FEMP 50001 Ready Cohorts



Back-Up Information Slides

50001 Ready Empowers Organization Change... 50001 Ready U.S. DEPARTMENT OF ENERGY



V	Sustainability Goals	Does your organization have established energy reduction or sustainability goals?
V	Top-Level Commitment	Has your executive leadership committed to providing resources to manage energy?
$\overline{\checkmark}$	Empowered Staff	Is your staff trained and empowered to analyze and improve energy use?
V	Energy Tracking	Does your facility practice regular tracking of energy spend and consumption?
V	Systems Familiarity	Do you know which systems and equipment consume the most energy at your facility?
V	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

2. People and

Requirements

3. Scope and

Boundaries

Legal

Leadership

Planning

Support

Operation

Performance Evaluation

Improvement

24. Corrective

25. Continual

Improvement

Action

1. An EnMS and 4. Management 7. Risks to EnMS your Organization Commitment

Success

8. Energy Data

5. Energy Policy Collection and

Analysis

6. Energy Team 9. Significant and Resources Energy Uses

10. Improvement

Opportunities

11. Energy

Performance

Indicators (EnPIs)

and Baselines

(EnBs)

12. Objectives and

Targets

13. Action Plans for

Continual **Improvement**

14. Competence and Training

and

Communication

15. Awareness

16. Documenting the EnMS

17. Operational Controls

18. Energy

Considerations in the EnMS

Design

19. Energy

Procurement

20. Monitoring

and

Measurement of

21. Monitoring

and

Considerations in Measurement of

Energy

Performance

Improvement

22. Internal Audit

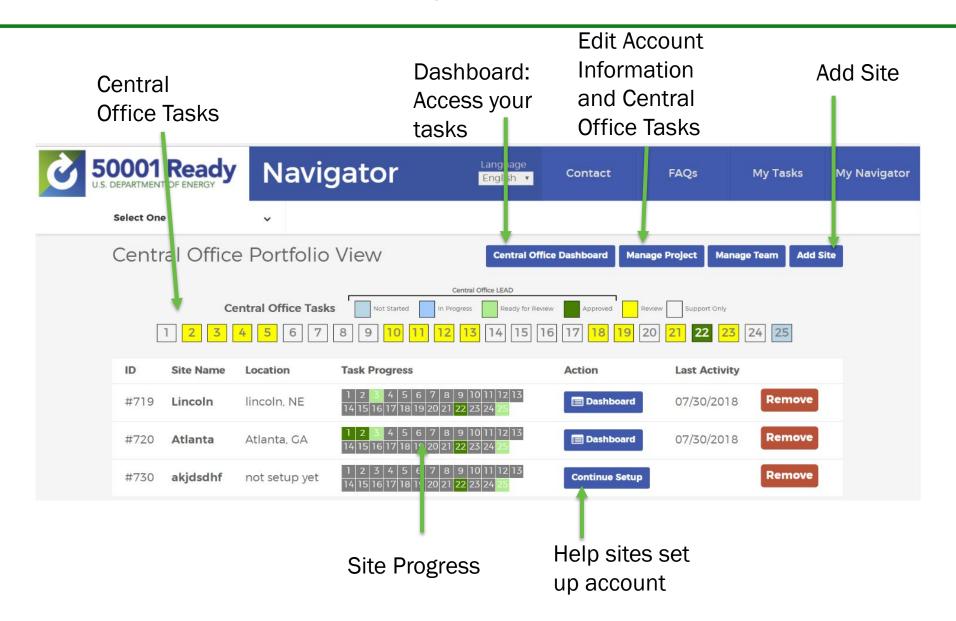
23. Management

Review

Strongly prepared

Partially prepared

Trained Resource: 50001 Ready Multi-Site Platform



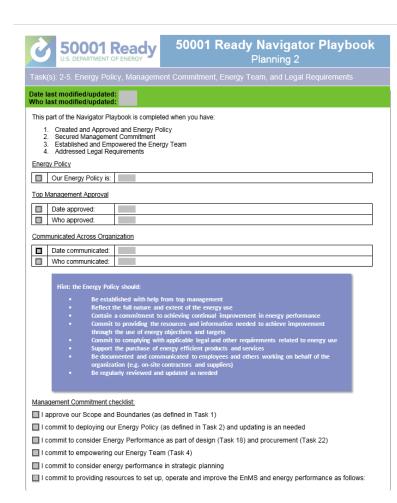
Trained Resource: 50001 Ready Playbook



- ✓ Standalone Excel file to <u>save on own</u> computer
- ✓ Worksheets to catalogue your 50001 energy management system
- ✓ Includes mgmt. and staff <u>responsibility tracker</u>
- ✓ Satisfies 50001 Ready requirements
- ✓ Living Document used to <u>on board new staff</u> (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'
'One of many hats'

'sustained savings' 'energy resilience'

50001 & Competitiveness: Increased Resiliency

Reduce Consumption

Minimize Vulnerability

Data Driven Continuous Improvement

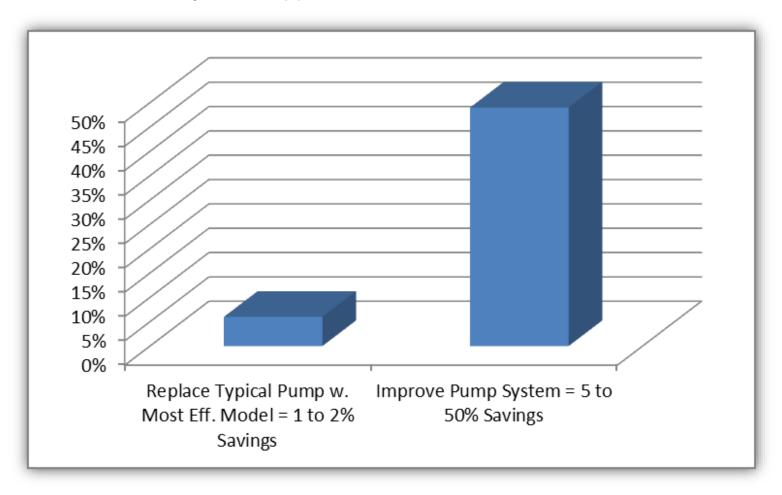
Faster Recovery

EnMS Documentation

Institutionalize system knowledge

Component retrofit or systems approach?

Component Retrofit or Systems Approach?



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