



**Superior Energy
Performance
50001™**

U.S. DEPARTMENT OF ENERGY

Energy

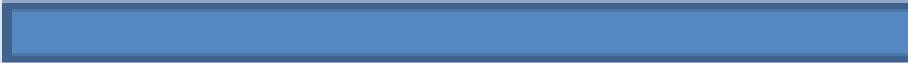


Organizations that achieve sustained excellence through a certificate for the Superior Energy Performance 50001 (Scorecard). The SEP 50001 Program Administrator (SEPA) is responsible for the program. To become certified, an organization implements an energy conservation program. An accredited third-party certification body conducts an energy audit and assigns a recognition level (Silver, Gold, or Platinum). Figure 1 shows the process. US DOE will recognize organizations that become certified and create similar recognition and award programs specific to the United States.

Figure 1 - SEP 50001 certification is required before

US DOE Recognition for SEP 50001

Organization #5-11



1. Completes **SEP 50001 Scorecard Declaration** to claim Scorecard

Organization
certified to
SEP 50001

1. Completes **SEP 50001 Scorecard Declaration** to claim *Scorecard*
2. Engages **50001 Certified Practitioner EnMS** to attest to *Scorecard* creation
3. Submits *Declaration* to US DOE

The Scorecard

This SEP 50001 Scorecard defines the credits and associated points for advanced technologies beyond the requirements. The Scorecard is worth 100 points:

- Energy Performance Improvement (EP) with 33 points
- Energy Management System (EnMS) with 44 points
- Certification, Partnership, and Reporting (CR) with 10 points
- Advanced Technologies (AT) with 8 extra bonus points
- Advanced Energy Supply (AS) with 20 extra bonus points

The "CREDIT SUMMARY" tab lists the credits and associated points available. The "CREDIT SUMMARY" tab auto populates the data.

An organization submits this SEP 50001 Scorecard Declaration to US DOE.

Note:

NOTE:

Use of the *Scorecard* is not required for SEP 50001 or higher levels of recognition (Silver, Gold, and Platinum).

USE

Entities that exceed SEP 50001 program certification to earn points to qualify for Silver, Gold, or Platinum, review the Declaration and respond to confirm the results.

Most *Scorecard* credits involve implementation of a program, e.g., immediately prior to SEP 50001 certification, previous one year or three years relative to the SEP 50001 organizations seeking multi-site SEP 50001 program certification document.

Scorecard Declaration: This Excel spreadsheet is the tool that allows organizations to indicate how many points it can earn on its organization's SEP 50001 recognition score. The *Declaration* lists the *Scorecard* points achieved: a top management representative (50001 CP EnMS) who has also completed the SEP 50001 program or an external consultant. If the 50001 CP EnMS was not in the organization:

- Find a CP EnMS who has completed the SEP 50001 program or an external consultant. Professionals (IEnMP). Qualified individuals must have completed the SEP 50001 CP EnMS or CP EnMS - Industrial at <https://ienmp.org/cp-enms>
- Learn how to become a 50001 CP EnMS and take the next steps.

Learn how to become a SEP 50001 or LEEDS and take
<https://betterbuildingsolutioncenter.energy.gov/iso>

Declaration Review by Administrator and Spot-Check
energy team leader, top management representative
anticipated to last around 30 minutes and will only a
share evidence in support of the credits claimed.

Certificate of SEP 50001 Recognition: Upon approval
add the organization to the SEP 50001 website.

Timeframe: It is anticipated that most organizations
certification or recertification (i.e., at the beginning of
months beyond the expiration of the SEP 50001 program
recertification. The *Scorecard* points earned are good
audited prior to the next certification. Once the orga

Upgrading Recognition Level: Organizations may change
after SEP 50001 program certification within the three
checked. Changes to *Scorecard* points and recognition

checked. Changes to Scorecard points and recognition

Increase EP 1 credit points: Organizations can change Performance Indicator (SEnPI) value, or have a certified organization may use an internal or external certified. Increases to other *Scorecard* credit points: All *Scorecard* organization will not lose points.

* The organization may use an internal or external cost for the service.

The descriptions of each credit provide the following

1. **Points:** The number of points available for the credit.
2. **Intent:** Description of the credit's purpose.
3. **Credit statement:** Summary of what the organization does.
4. **Measurement and verification criteria for recognition:** Description of the criteria used to measure and verify the credit.

If an organization is seeking multi-site SEP 50001 certification

Performance 50001™

Introduction

ough their energy management system (EnMS) can receive
01™ (SEP 50001™). Certified organizations may gain eleva
Administrator) in the United States is the U.S. Departmen

energy management system that meets the ISO 50001 a
s an audit to verify the ISO 50001 program. Then the org
outlines the recognition levels available in the United Sta

rtified and those that achieve a higher level of recognitio
ific to their country, but US DOE does not administer SEP

Some organizations seek additional SEP 50001 recognition b

001



SEP 50001 Certified

Higher Recognition Levels:

SEP 50001 Silver

50001 Scorecard

aim. Scorecard credits

Scorecard points: 25

50001 Scorecard
Claim Scorecard credits

Certified Practitioner in
Scorecard credits

Declaration to US DOE

Higher Recognition Levels:

SEP 50001 Silver
Scorecard points > 25

SEP 50001 Gold
Scorecard points > 50

SEP 50001 Platinum
Scorecard points > 75

Superior Energy Performance 50001 Scorecard

associated points for improvements in energy performance for ISO 50001 and SEP 50001. Credits are grouped into the following categories:

- 0-23 points
- 24-50 points
- 51-75 points
- 76-100 points

associated points achievable as categorized in the credit categories as the user works through the scorecard.

Declaration to the Administrator to claim Scorecard credits.

program certification. SEP 50001 program certification and recognition (EnMS). Although there are eight sections, points are not needed for

ISO 50001 Recognition using SEP 50001 Scorecard

organizations can use the *Scorecard* to achieve a higher level of recognition, and submit the *SEP 50001 Scorecard Declaration* (Declaration) to receive recognition level achieved.

an action, process, procedure, or advanced technology. To receive ISO 50001 recognition, or during the SEP 50001 program certification, organizations must use the SEP 50001 Scorecard to receive ISO 50001 recognition. Each credit will also specify the number of credits required for certification and recognition using a central function EnMS.

Declaration that organizations download, populate, and submit to receive recognition for each credit and provide justification for the points earned. The *Declaration* is available on the SEP 50001 website. On the *Declaration*, a representative from the organization and a 50001 Certified Professional (CP) ISO 50001 Specialist Training for 2019. This 50001 CP EnMS certification is involved with the ISO 50001 implementation, an onsite review, and a 50001 Specialist Training for 2019: Visit the online listing main page to receive both the SEP 50001 (2019) program competency and certification/ find-a-professional/ certification/ find-a-professional/ the SEP 50001 Specialist Training for 2019 at

the SEP 50001 specialist training for 2017 at
p-50001/become-energy-management-professional.

Checks: US DOE will review the *Declaration* for accuracy and
e, and the 50001 CP EnMS who attested to the *Scorecard*
address content related to the *Declaration*. During the cal

l of the *Declaration*, US DOE will issue a certificate to the

applying for a higher level of recognition will do so within
of the next three-year certification cycle). Administrator r
gram certification. Therefore, a new declaration for Admi
d for the entire SEP 50001 recognition period (up to three
nization has been recertified, all *Scorecard* points must b
oose to increase the number of points earned and upgra
ee-year certification cycle. *Scorecard* points may be adde
n level occur under the following scenarios:

an level occur under the following scenarios.

the EP 1 points earned by recertifying early to SEP 50001
certified SEP Performance Verifier* verify a new SEnPI value, and
SEP Performance Verifier.

card credit points (other than EP 1) may be upgraded and

certified SEP Performance Verifier. Typically, verification by

Scorecard Credit Details

g details:

edit.

tion must demonstrate to receive points.

Definition: Defines the evidence evaluated to determine the r

rtification and SEP 50001 recognition using a central func

team

tor at SEP50001@ee.doe.gov

OMB DISCLOSURE STATEMENT

The data you supply will be used to evaluate the effectiveness of investments in energy management systems, including the time for reviewing instructions, searching existing data sources, gathering and maintaining data, and reviewing instructions for reducing this burden, to Office of the Chief Information Officer, Enterprise Policy Development, Office of Management and Budget (OMB), OIRA, Paperwork Reduction Project OMB control number 1910-0046. No person will be subject to a penalty for failure to comply with a collection of information subject to the requirements of this title if it does not display this statement.

Scorecard

DOE HQ F 413.40
OMB Control #: 1910-5177
Exp. Date: _____

ve elevated recognition and a coveted program
ated recognition using the *SEP 50001 Scorecard*
nt of Energy (US DOE).

and SEP 50001 (ANSI/MSE 50028-1:2019) standards.
anization can use the *Scorecard* achieve a higher
ates.

n. Government agencies in other countries may
50001 recognition to organizations located outside

by US DOE

fied

on Levels:

r
05

on Levels:

r
25

50

num
75

ecard

e and implementing actions, processes, procedures,
he following credit categories with maximum

tegies. A total potential of 128 points are

s for SEP 50001 recognition.

and use of the *Scorecard* are required to achieve
needed in all sections.

card

recognition level. Organizations use the Scorecard
(*Declaration*) to the Administrator. The Administrator will

The credit will specify the timeframe of
reporting or achievement period, or
number of points that organizations can claim. For
MS, see the “Scorecard Credit Details” section of this

submit to the Administrator. The spreadsheet
points claimed. The Declaration will calculate the
Declaration, two representatives verify and attest to
and Practitioner in Energy Management Systems
can be an internal organization staff member or an
view is required.

maintained by the Institute of Energy Management
one of the following certifications: 50001 CP

may request a telephone call or webinar with the credits to spot check the data. The call is
ll or webinar, the organization may be asked to

e organization indicating its recognition level and

n three months of achieving SEP 50001 program
recognition will be valid for a period to extend three
nistrator recognition must be submitted for
e years, three months) and do not need to be
be checked and submitted anew.

ide their recognition level at *12 and/or 24 months*
d, and existing points remain valid and are not re-

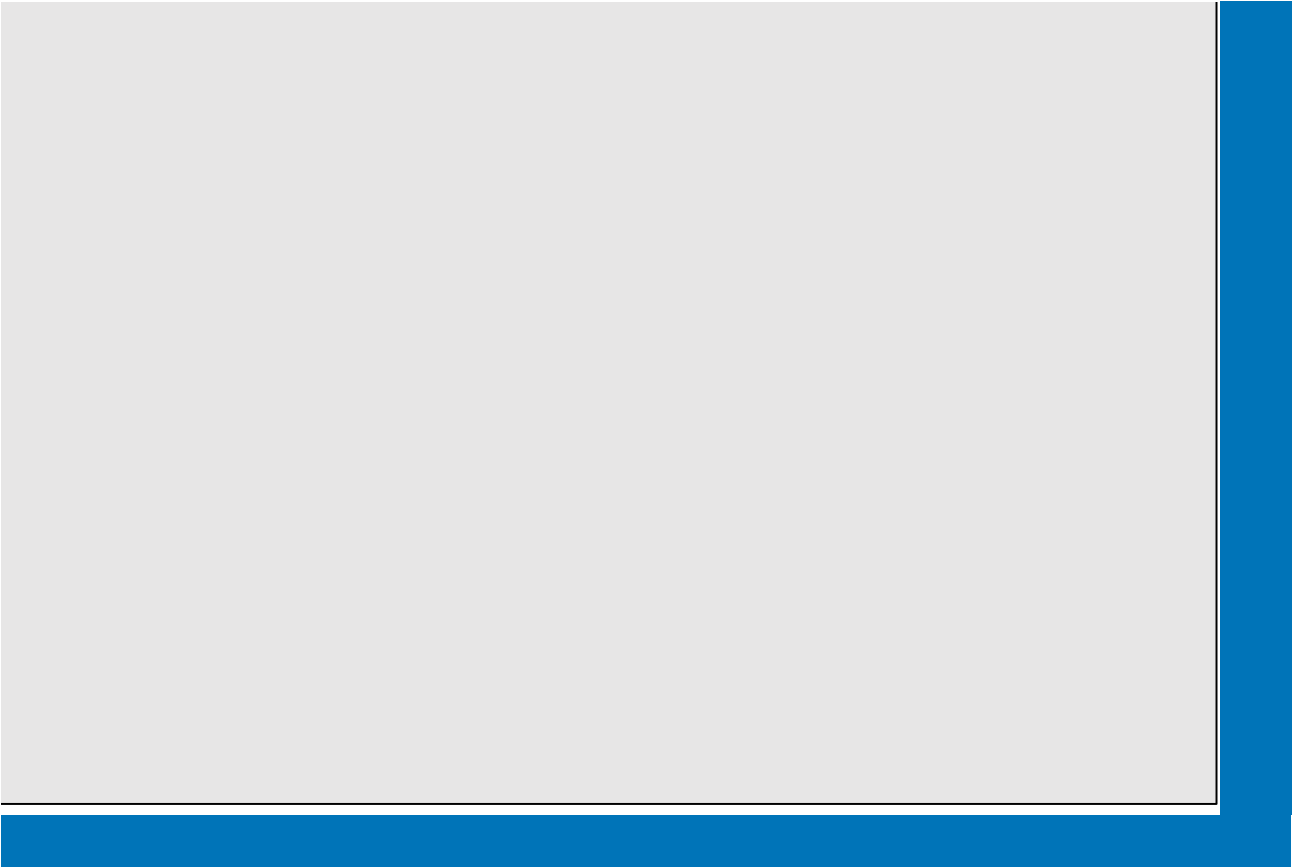
01 to obtain a new verified SEP 50001 Energy
and thus increase the EP 1 point level. The

l points will either be maintained or increased;

r an external SEP Performance Verifier will incur a

number of points awarded.

tion EnMS, the following credits can be claimed for



systems and to improve the usefulness of Federal technical assistance and recognition programs.

gathering the data needed, and completing and reviewing the collection of information. Send comments to the Information Management & Implementation Office, IM-22, Paperwork Reduction Project OMB control number 1910-5177, 1010-5177, Washington, DC 20503.

requirements of the Paperwork Reduction Act unless that collection of information displays a currently



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Energy

The EP category differs from the other categories in that the only difference is that the only v updated Scorecard for the

Energy Performance Imp

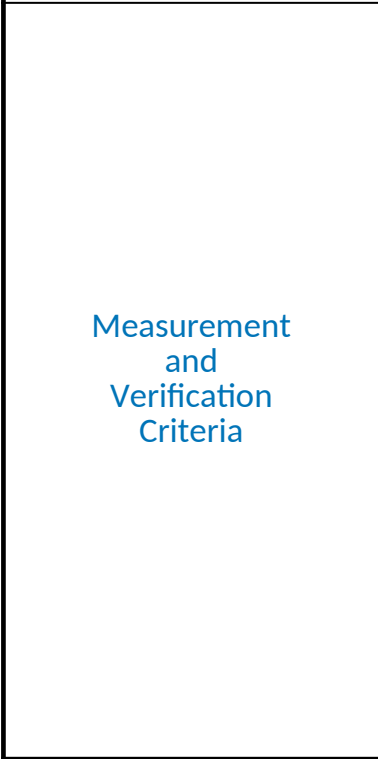
INTENT

CREDIT STATEMENT

EP 1



Measurement
and
Verification
Criteria



How the criteria was met

Example 1: General Pulp Mill
achievement period, 2015 to 2017
STAR EPI Benchmark certified

General Pulp Mill may apply
annualized energy performance
awarded (C=0).

EP1 credit points = $[(1.5 / 3) \times 3]$

Example 2: High Tech Manufacturing
over 3 years. They are in the
Energy Intensive (EI) category.

EI = 3 since they are in an energy
intensive category.

EP1 credit points are calculated as follows:
EP1 credit points = $[(1.5\% / 3) \times 3]$
After rounding to the nearest whole number, the
result is 1.5 credit points.

Questions or Comments: Contact Us

This data is being collected to facilitate the development of energy efficiency programs.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering the data, reviewing the collected data, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Washington Headquarters Service, Paperwork Project (0182-0001), U.S. Department of Energy, 1000 Independence Avenue, Washington, DC 20585.

Notwithstanding any other provision of law, no person shall be held liable for not providing information to the U.S. Department of Energy, 1000 Independence Avenue, Washington, DC 20585, if it can be demonstrated that the person was unable to provide the information.

Submission of this data is voluntary.

Energy Performance Improvement (EP)

In the rest of the Scorecard in that points are based on the SEP 50001 verification audit. One way to upgrade EP points during the SEP 50001 recognition cycle is to seek an early recognition in other credit categories.

Improvement

To encourage additional improvement in energy performance above and beyond the basic ISO 50001 requirement for continuous improvement.

Positive energy performance improvement, SEnPI (greater than 0.0% over the 50001 SEP achievement period, rounded to the nearest tenth of a percent), has been achieved per 50001 SEP certification using the *SEP 50001 Program Measurement and Verification (M&V) Protocol*. The *M&V Protocol* sets forth the verifiable methods for determining and demonstrating achievement of the energy performance improvement percentage claimed by the organization for a defined facility. The determination and demonstration of energy performance improvement is based upon the comparison of top-down and bottom-up approaches to calculate energy performance improvement.

$$EP1 \text{ credit points} = AEPI * EI * (4 + A + B + C)$$

Verified energy performance improvement percentage from the SEP 50001 certification is “annualized” by dividing the percentage by the number of months in the SEP 50001 achievement period(s), and then multiplying by 12.

Annualized SEnPI Percentage Improvement (AEPI):

$$AEPI = \text{verified energy performance improvement (\%)} / \text{achievement period(s) (months)} * 12$$

There is a maximum of 33 points awarded for this credit. Points achieved are rounded to the nearest whole number.

For example, the calculation to annualize a 9% improvement over 3 years: $(9\%/36 \text{ months}) * 12 = 3\%$.

To calculate the AEPI for 5% improvement over a 2-year SEP 50001 achievement period: $(5.0\% / 24 \text{ months}) * 12 = 2.5\%$.

EI:

--

The factor EI is determined by the sector the facility is within and is defined as:

El = 3 if the facility is within an energy-intensive industrial sector: Wet Corn Milling, Sugar, Wood Products, Petroleum, Chemicals, Non-Metallic Minerals and Primary Metals [NAICS 3-digits: 311221, 31131, 321, 322, 327 & 331]; otherwise EI= 1

A:

The factor A relates to a facility's ENERGY STAR certification or the facility's corporation's or organization's partner in good standing (including reporting energy data annually) with the DOE Better Buildings or Better Plants program and is defined as:

A = 3 if the facility has a current ENERGY STAR EPI Benchmark certification (industrial) or ENERGY STAR certification (commercial building) at the time of the SEP 50001 certification date or the facility contributes to a corporation's or organization's portfolio of facilities that annually report energy intensity through the DOE Better Plants program; otherwise A=0.

B:

The factor B relates to the facility's prior 10 year energy performance improvement and is defined as:

B= 5 if the facility is being certified to SEP 50001 for the first time and the energy performance improvement over the past 10 years relative to their SEP 50001 reporting period has improved:

- o > 2% per year, on average, for non-energy intensive facilities
- o > 1% per year, on average, for energy intensive facilities, or
- o The facility has been ENERGY STAR Challenge for Industry recognized in the most recent one to three years and the recognition involves improving energy intensity by 10% or more over 5 years.
- o The facility's organization has successfully met their Better Buildings or Better Plants commitment and a new energy saving commitment.

If none of the above applies, and the facility has been certified to SEP 50001 more than once, then B=0.

Note 1 for B: The 10 year energy performance improvement may be based on simple energy intensity (e.g. kWh per manufacturing production, etc.) or normalized energy performance improvement based on a statistical regression model.

Note 2 for B: The 10 year look back on energy performance improvement is from the SEP 50001 reporting year. For example, if the SEP 50001 reporting year was 2018 then the 10 year improvement period would be from 2008 to 2018, with 2008 being the baseline year.

Note 3 for B: The energy intensity or normalized energy performance improvement could be quantified and demonstrated through the use of DOE's Energy Footprint or EnPI (Excel or online) tools, EPA Portfolio Manager, or other equivalent tool.

C:

The factor C relates to the number of SEP 50001 certifications and is defined as:

C= 3 if the facility has 1 prior SEP 50001 certification; C=6 if the facility has 2 prior SEP 50001 certifications; C=9 if the facility has 3 or more prior SEP 50001 certifications; otherwise C= 0

▶ Has the facility's Energy Performance Improvement Report been submitted to the Administrator?
An accredited SEP 50001 Verification Body (VB) must use an SEP Performance Verifier (PV) to verify energy performance improvement in energy performance using processes defined by SEP 50001 certification. The VB reports energy performance improvement percentage and achievement period (in months) to the Administrator's SEP 50001 Energy Performance Improvement Report (EPIR). Organizations that are upgrading EP1 points at 12 months after their SEP 50001 program certification must use an internal or external SEP PV to verify the new SEnPI and submit an updated SEP 50001 EPIR, along with their updated Declaration, to the Administrator.

▶ Please enter the value of your **Annual Energy Performance Improvement (AEPI)**

▶ Please select your industrial sector to determine your **EI** factor

▶ Please select your facility's relevant certification or organization's partnership with relevant US DOE to determine your **A** factor

▶ Is the facility being certified to SEP 50001 for the first time?

▶ Please select the energy performance improvement in the past 10 years relative to the facility's reporting period. This will determine your **B** factor.

▶ Please elect the number of prior SEP 50001 certifications to determine your **C** factor.

Indicate the date of the SEP certification or the name of the PV and date PV verified the SEnPI in the row below, overwriting "Add text here ..."

Add text here ...

EXAMPLE

ill, a facility within the Paper Manufacturing sector, NAICS 322, achieved SEP 50001 certification in 2017; a 36-month achievement period. They have also analyzed their energy performance improvement (2017).

By the factors of EI, A, B and C as EI=3, A= 3, B= 5 and C=0: they are within an energy intensive performance improvement over a 10 year period looking back from their SEP 50001 reporting period.

$$6) * 12] * 3 * (4 + 3 + 5 + 0) = 18 \text{ points}$$

Manufacturing achieved SEP 50001 certification for the third time (i.e., second SEP 50001 recertification) in the Primary Metals sector, NAICS 331. They are not ENERGY STAR EPI Benchmark certified.

Energy intensive sector, A=0 (not ENERGY STAR certified), B=0 (not first SEP 50001 certification).

Points awarded based on the verified energy performance improvement from their most recent SEP 50001 certification [36 months] * 12 * 3 * (4 + 0 + 0 + 6) = 15.4 points. After rounding points to the nearest whole number, this facility is awarded 15 points.

Contact the SEP 50001 Program Administrator at SEP50001@ee.doe.gov

OMB DISCLOSURE STATEMENT

The delivery of technical assistance and other program services. The data you supply will be used to evaluate the effectiveness of the program.

The collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and editing the collection of information, and reviewing and editing the collection of information, including suggestions for reducing this burden, to Office of the Chief Information Officer, Department of Energy, Independence Ave SW, Washington, DC, 20585-1290; and to the Office of Management and Budget (OMB), OIRA, Paperwork Reduction Project (2017-0543), Washington, DC, 20503.

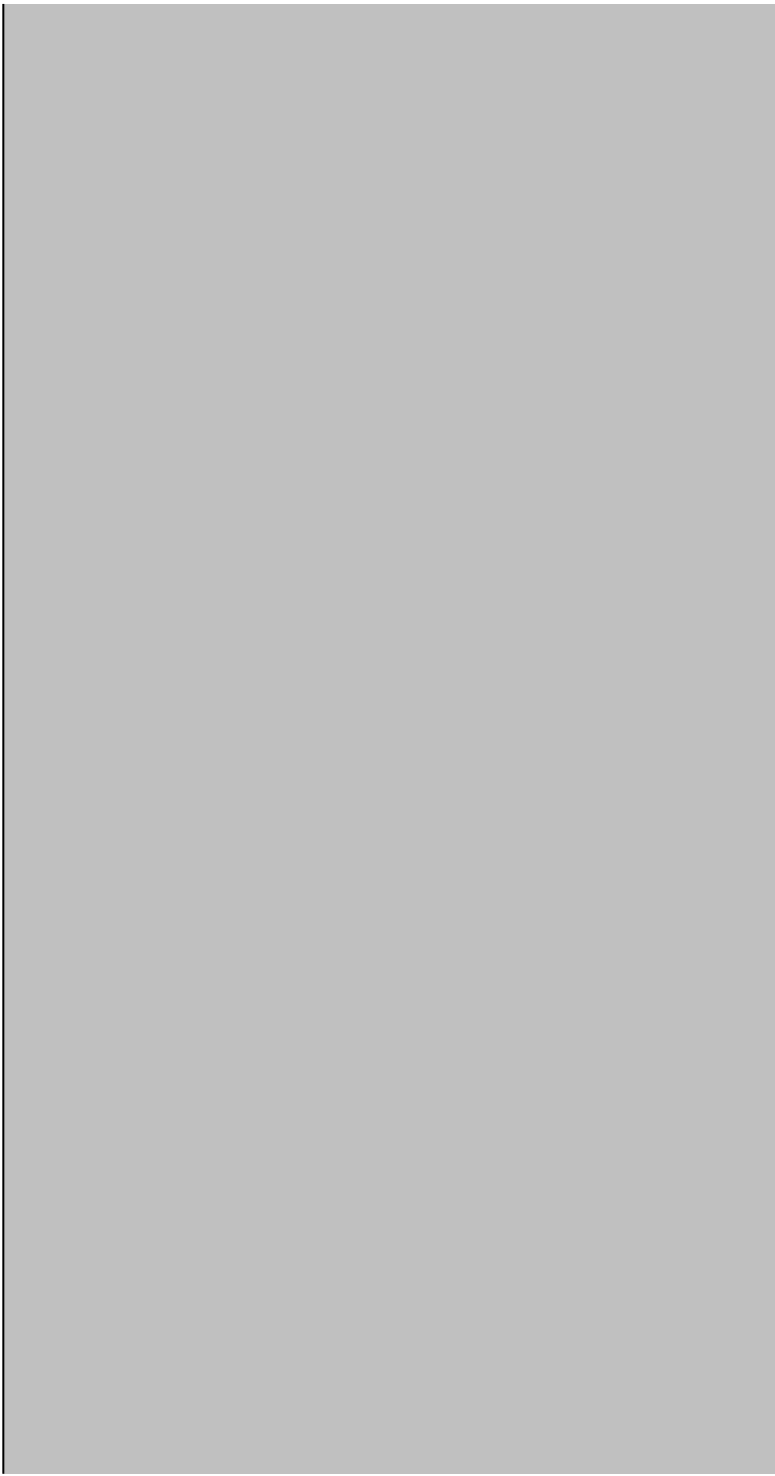
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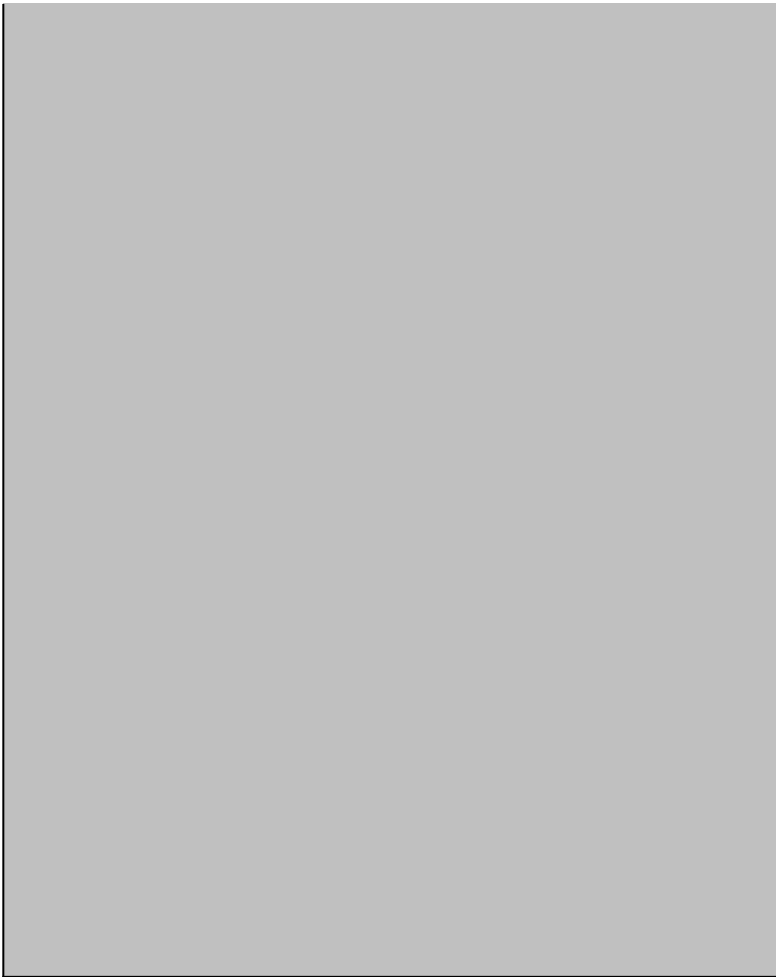
5001™

[Back to S](#)

Third-party verified SEP 50001 Energy Perform
to SEP 50001 to obtain a new verified SEnPI

Points
0
0





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Not cli



first time. Their verified energy performance improvement from 2007 to 2017 to be 12% over 10 years (

3), they are ENERGY STAR EPI Benchmark certified (B=5) (ear over 10 years) (B=5). Since this is the first SE

their verified energy performance improvement c

3rd SEP 50001 certification; two prior SEP 50001

tion:
this facility is awarded 15 points.



n energy management systems and to improve the usefulness of f

s, gathering and maintaining the data needed, and completing and
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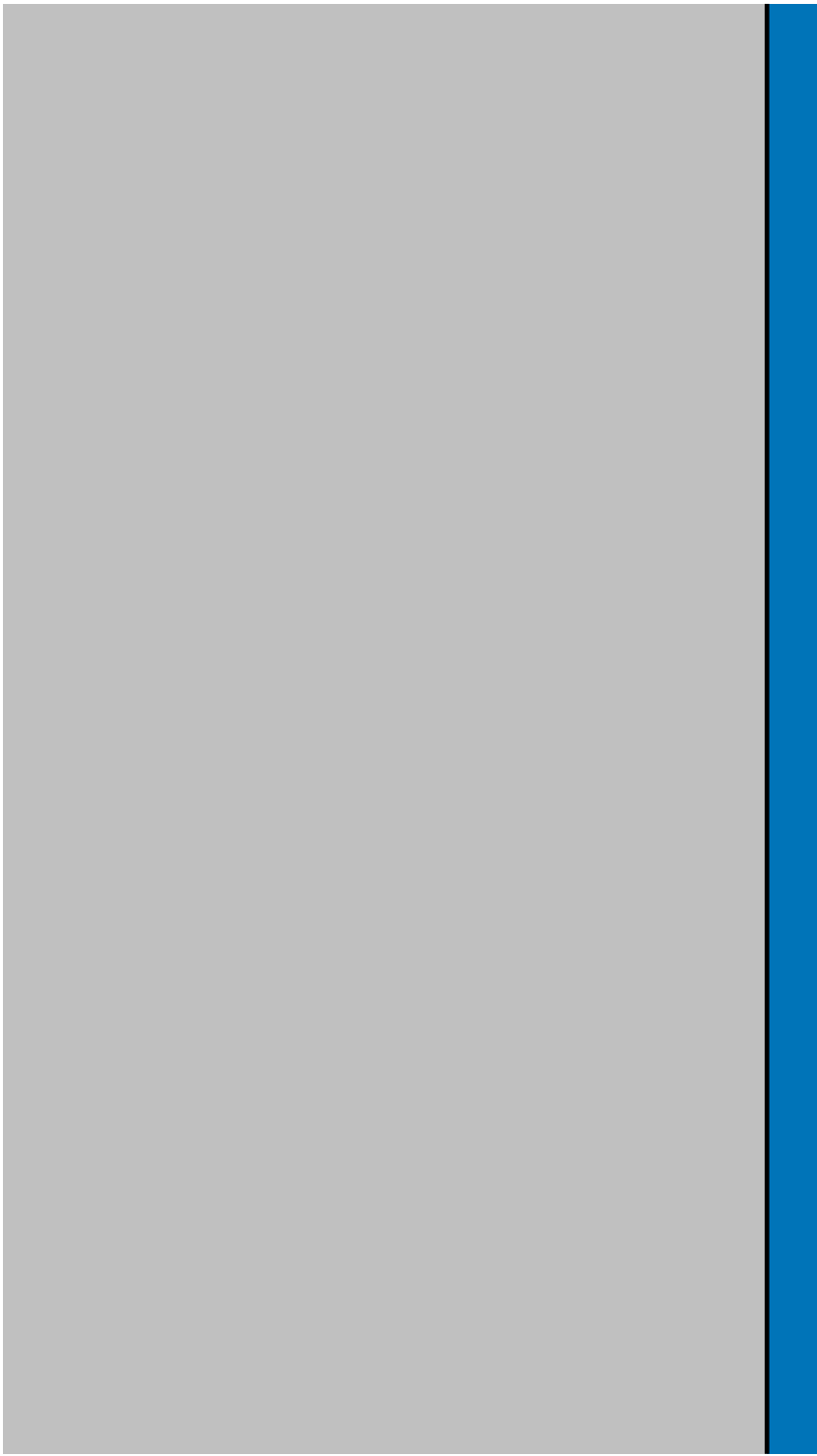
Scorecard

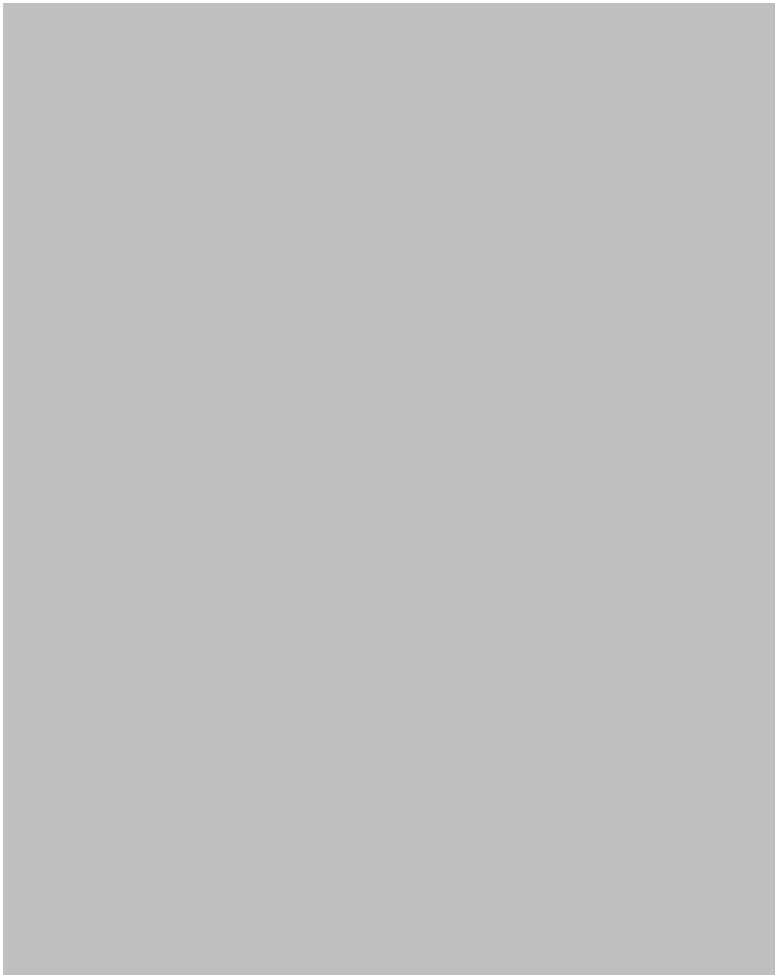
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[corecard](#)

ance Indicator (SEnPI) value. The other value, as opposed to resubmitting an

Max Points
33
33





ECT

0%

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ECT

aimed

Improvement was 1.5% over the 3 year
1.2% per year). They are currently ENERGY

Star (A=3), and have 1.2% (12% / 10 years)
LEED Platinum certification, no points for C are

over the most recent achievement was 1.5%

(LEED certifications).

Federal technical assistance and recognition programs.

and reviewing the collection of information. Send comments
to the Project OMB control number 1910-5177,

unless that collection of information displays a currently



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ISO 50001 develops a culture where energy efficiency is the primary means to understand and improve energy systems prior to purchase and operation. Energy consumption must be monitored and equipment to peak operating efficiency. Energy consumption and energy consumption.

Data monitoring and measurement of energy consumption of equipment and systems. Organizations should determine the root cause of energy consumption.

DM 1	Availability of Energy Review
	INTENT
	CREDIT STATEMENT
	Measurement and Verification Criteria
	How the criteria was met

SEnPI Quarterly Updating

DM 2

INTENT

CREDIT STATEMENT

Measurement and
Verification Criteria

How the criteria was met

Cost Centers

INTENT

CREDIT STATEMENT

DM 3

Measurement and
Verification Criteria

How the criteria was met

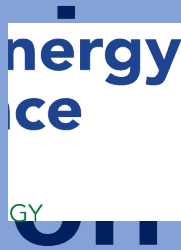
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U.S. Department of Energy, 1000 Indepe

Notwithstanding any other provision of t
valid OMB control number.

Submission of this data is voluntary.



Energy Performance

Energy Data, Monitoring and Measurement

of energy awareness, ownership, and management. An organization cannot effectively understand the organization's level of energy consumption and to control and ultimately reduce installation so that the optimal option can be acquired to minimize operating expenses, recorded, collected, and analyzed during operation. Deteriorating energy performance can occur. performance. In addition, energy data monitoring can be a critical component in proper consumption data are also necessary to evaluate the results of process or equipment changes.

Measurement is only the first step in the effective use of energy information. Once energy data is collected, organizations can use the analyses to make decisions regarding process changes, process optimization, or any deterioration in efficiency. Data are critical to defining and improving performance.

Review

To ensure that effective personnel have access to energy data and information from the energy review.

The energy review shall be available and readily accessible in electronic form to effective personnel. Effective activities have been identified as having an impact on energy.

► Evidence of availability and accessibility of the electronic energy review to effective personnel. The organization shall provide evidence for the reporting period or certification date, whichever applies.

Indicate how effective personnel can access the energy review in the row below, overwriting "Add text here ..."

Add text here ...

To update and monitor the SEP 50001 Energy Performance Indicator (SEnPI) at least on a quarterly basis.

Note: This credit is different than credit SU 5, Monthly Tracking of EnPI Values for Significant Energy Use

The organization shall update and monitor the SEnPI at least quarterly to assess improvement in energy performance.

► Evidence that SEnPI value is updated at least quarterly. The organization shall have records related to this credit (within 90 days after the reporting period or certification date), whichever applies.

Show the date and SEnPI(s) for the last quarter in the row below, overwriting "Add text here ..."

Add text here ...

To report energy consumption and cost to organizational departments to encourage accountability for energy use.

Reports shall be made to departmental managers on the energy costs incurred by the activities associated with those departments and measured by those activities. Reports of departmental costs that include energy costs shall be prepared and submitted to the appropriate departmental manager.

► Evidence of the tracking of energy consumption on a quarterly basis, with estimates through energy submeters and/or meters by a cost center.

► Evidence of charges associated with measured and/or calculated energy consumption for respective cost centers.

► Evidence of quarterly reports and communication of energy charges to cost center managers.

► The organization shall show records related to this credit during the reporting year or most recent year (whichever applies).

► Percentage of facility's total site energy consumption accounted in all aforementioned M&V criteria.

Show where (filename and server/computer) the Energy Consumption Related to Cost Center data are stored.

Add text here ...

Contact the SEP 50001 Program Administrator at SEP50001@ee.doe.gov

OMB DISCLOSURE STATEMENT

delivery of technical assistance and other program services. The data you supply will be used to evaluate the effectiveness of inventory

of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering the data, reviewing the data, and summarizing the data. For each aspect of this collection of information, including suggestions for reducing this burden, to Office of the Chief Information Officer, Paperwork Reduction Project (2008-07-14), 1215 Jefferson Ave SW, Washington, DC, 20585-1290; and to the Office of Management and Budget (OMB), OIRA, Paperwork Reduction Project (2008-07-14), 1215 Jefferson Ave SW, Washington, DC, 20585-1290.

Under the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with a collection of information if it does not display this statement.

card

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B Control #: 1910-5177

Date: _____

[Back to Scorecard](#)

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alysis is also necessary

Points	Max Points
0	6

0	1
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SELECT	
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Not claimed	
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0	2
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SELECT	
Not claimed	
0	2 to 3
SELECT	
SELECT	
SELECT	
SELECT	
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Not claimed	

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 ation displays a currently



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U.S. DEPARTMENT OF ENERGY

Significant energy uses are the
opportunities. In addition, the

Management of the SEUs ent
energy considerations should

Without the proper managen
equipment can drastically imp
another key component: even

SU 1	Energy Balance
	INTENT
	CREDIT STATEMENT
	Measurement and Verification Criteria

How the criteria was

Designation of Significant

INTENT

CREDIT STATEMENT

SU 2

Measurement and
Verification Criteria

How the criteria was

Energy Performance and

INTENT

CREDIT STATEMENT

SU 3

Measurement and
Verification Criteria

How the criteria was

Maintenance System Inc

INTENT

CREDIT STATEMENT

SU 4

Measurement and
Verification Criteria

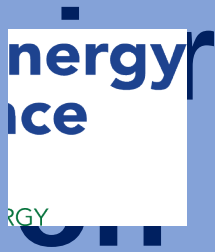
	How the criteria was
SU 5	Monthly Tracking of EnP
	INTENT
	CREDIT STATEMENT
	Measurement and Verification Criteria
	How the criteria was
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Energy Performance

Significant Energy Uses

Equipment, processes, applications, or activities identified as being chief components of Significant Energy Uses (SEUs) also pose the largest risk if they are not managed effectively.

SEUs often entail a combination of activities. It is essential that SEUs are monitored, controlled, and audited. SEUs should be examined when purchasing new equipment or systems that are associated with them.

Fluctuations in the operation of SEUs, energy consumption can quickly increase due to the magnitude of energy used. This can impact an organization's energy consumption. Large fluctuations in consumption could diminish the efficiency of the most energy-efficient equipment can become inefficient if unchecked, resulting in increased energy consumption.



To encourage a better understanding of the relative energy consumption of processes, equipment, and systems, the organization shall document the method for an energy balance detailing the energy consumption of the processes, equipment, and systems. The consumption data sources, when combined, must account for at least 90% of the total site energy consumption. The energy balance shall be reviewed and updated as changes to the facilities, processes, or equipment are included. The energy balance shall be reviewed and updated as changes to the facilities, processes, or equipment are included.

The organization shall document the method for an energy balance detailing the energy consumption of the processes, equipment, and systems. The consumption data sources, when combined, must account for at least 90% of the total site energy consumption. The energy balance shall be reviewed and updated as changes to the facilities, processes, or equipment are included. The energy balance shall be reviewed and updated as changes to the facilities, processes, or equipment are included.

- ▶ Evidence of a documented energy balance process detailing the energy consumption of processes, systems, and equipment.
- ▶ The energy balance shall include all SEUs.
- ▶ Evidence that the energy consumption detailed in the energy balance record is at least 90% of the total energy consumption at the time the energy balance was performed.

► The organization shall show records related to this credit during the reporting year or most recent year (whichever applies).

Indicate the percentage of total site energy consumption that is included in the Energy

Add text here ...

Energy Uses

To encourage organizations to continually broaden the scope of the equipment, systems, and processes that

The combined energy consumption of SEUs shall be 30% or more of the total site energy consumption of the systems, or processes designated as SEUs must be managed as defined in ISO 50001.

► Evidence of the percentage of site energy consumption utilized by all of the significant energy uses compl

► The organization shall show records related to this credit during the reporting year or most recent year (whichever applies).

Indicate the percentage of site energy consumption utilized by SEUs in the row below,

Add text here ...

Life Cycle Costing in Equipment Repair and Replacement Policy

To encourage a systematic, life cycle costing policy for replacement and repair of equipment.

A repair and replacement policy shall be documented that defines how energy performance and life cycle costing are taken into account for all systems within all significant energy uses.

► **Approach 1:** Evidence that a repair and replacement policy has been implemented for equipment and systems and the policy defines how energy performance and life cycle costing are taken into account.

► **Approach 2:** Implementation, maintenance, or certification to ISO 55001 Asset management -- Management of energy consumption, may be used to meet this credit if energy performance and life cycle costing are taken into account.

► The organization shall show records related to this credit during the reporting year or most recent year (whichever applies).

► Points will be awarded for percentage of the facility's total site energy as follows: 2 points for over 25%;

Indicate the percentage of the total site energy consumption where energy performance

Add text here ...

Includes Energy Performance Guidelines

To encourage the use of preventive and predictive maintenance programs that account for energy performance

The organization shall identify preventive and predictive maintenance activities that improve the energy performance of all significant energy uses. Maintenance activities influencing energy performance shall be included in the maintenance system.

► Evidence that preventive and predictive maintenance activities that account for energy performance of all significant energy uses are identified.

► Evidence that the maintenance system includes these preventive and predictive maintenance activities influencing energy performance.

► Evidence that these preventive and predictive maintenance activities influencing energy performance are documented.

▶ The organization shall show records related to this credit during the reporting year or most recent year (

Show where (filename and server/computer) the data related to Maintenance and SEU

Add text here ...

I Values for Significant Energy Uses

To encourage a better understanding of operations and variability in significant energy uses.

Energy performance indicators (EnPI(s)) shall be developed for each significant energy use based on metered data on a monthly basis.

Note: This credit is different than credit DM 2, SEnPI Quarterly Updating.

▶ Evidence that EnPIs are developed for each significant energy use based on metered data or measurements.

▶ Evidence that values of EnPIs for significant energy uses are tracked on at least on a monthly basis.

▶ The organization shall show records related to this credit during the reporting year or most recent year (

Show where (filename and server/computer) the data related to Monthly Tracking of E

Add text here ...

Contact the SEP 50001 Program Administrator at SEP50001@ee.doe.gov

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[Back to Scorecard](#)

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Points	Max Points
0	12

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U.S. DEPARTMENT OF ENERGY

The concept of management improvement, among others.

Management of energy opportunities
Several key concepts in the IS

- ▶ Implementing energy improvement energy policy, legal requirements
- ▶ Action plans are documented
- ▶ Action plans should be implemented
- ▶ Changes resulting from implementation
- ▶ Action plans must be evaluated

Energy Assessment of Energy

INTENT

CREDIT STATEMENT

EO 1

Measurement and Verification Criteria

How the criteria was

EO 2	Life Cycle Costing in Eval
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INTENT

CREDIT STATEMENT

Measurement and Verification Criteria

How the criteria was

EO 3	Dedicated Capital or Ope
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CREDIT STATEMENT

Measurement and Verification Criteria

How the criteria was

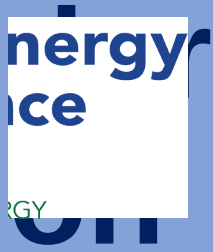
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Energy Performance

Management of Energy Opportunities

Management of energy opportunities is intentionally broad and incorporates many types of activities. Organizations implement many action plans within their organization that have multiple energy opportunities.

Energy performance opportunities is a technical category that refers to the activities associated with identifying, evaluating, and implementing energy performance opportunities. The ASHRAE 50001 standard concerning this topic are:

Energy performance opportunities is a means for achieving objectives and targets. Prioritizing these opportunities is based on energy performance objectives, and its financial and business objectives.

Energy performance opportunities are those that show the details required to implement energy performance opportunities.

Energy performance opportunities should be implemented as planned, including the post-installation measurement and verification of energy performance improvements.

Energy performance improvements in energy performance should be incorporated into the management system.

Energy performance opportunities should be implemented to ensure that they are effective.

Energy Use(s)

To ensure that opportunities for energy performance improvement related to SEUs and other energy uses are identified and implemented.

Energy assessment(s) are conducted on SEU(s) and other energy uses (non-SEU(s)) at least once during the life cycle of the facility. Recommendations for energy performance improvements are provided. Examples of energy assessment protocols or approaches include the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Level 2 or 3 audits, or US DOE Industrial Assessment Centers (IACs). Teams located at universities around the country are eligible to receive a no-cost assessment provided by the US DOE IACs. Teams located at universities around the country are encouraged to reduce waste, and save energy).

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additional capital
not be the primary goal.

performance improvement.

an organization's

Points	Max Points
0	11

0	2 to 4

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0	1 to 4
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Everyone within the organiza

“System sustainability” is the

- ▶ Move into the everyday pra
- ▶ Are addressed through role
- ▶ Address the energy-related
- ▶ Promote transparency of e
- ▶ Promote informed decisior
- ▶ Are prioritized and resourc

OS 1	Resources: Energy Mana
	INTENT
	CREDIT STATEMENT
	Measurement and Verification Criteria

How the criteria was met

Awards or Incentive Prog

INTENT

CREDIT STATEMENT

OS 2

Measurement and
Verification Criteria

How the criteria was met

Energy Professional Cert

INTENT

CREDIT STATEMENT

OS 3

Measurement and Verification Criteria

How the criteria was met

Strategic Planning

INTENT

CREDIT STATEMENT

OS 4

Measurement and Verification Criteria

How the criteria was met

Include Procurement Pe

INTENT

OS 5

CREDIT STATEMENT

Measurement and
Verification Criteria

How the criteria was met

Share SEP 50001 Experie

INTENT

OS 6

CREDIT STATEMENT

Measurement and
Verification Criteria

How the criteria was met

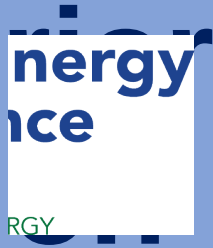
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Energy Performance

Organizational Sustainability

tion uses energy and therefore bears some responsibility to manage energy with the g

term describing how the activities of the energy management system:
actices of the organization.

es, responsibilities, and authorities that are dispersed through every part and at every l
l activities of stakeholders (e.g., employees, suppliers, contractors).

nergy policy and objectives of the organization.

n-making related to energy.

ed by management and demonstrated through effectiveness of the management syste

Management Team

To promote the active participation and involvement of top management in the organization's energy man
Having a top manager on the energy management team helps to achieve consistent top management supp

The organization's energy team shall include a member of top management.

Note: A member of top management is a person (or one who works directly for a person) that commits the

- Commits the organization to defining, establishing, implementing, and maintaining the energy policy.
- Appoints the management representative for, and approves the formation of, an energy management
- Provides resources needed to establish, implement, maintain, and improve the EnMS and the resulting

▶ Evidence that a member of top management is on the energy team.

▶ Evidence that this member participates consistently in energy team meetings and activities.

▶ The organization shall show records related to this credit during the last year.

Show the name of the top manager in the row below, overwriting "Add text here ..."

Add text here ...

Program for Energy

The purpose of this credit is to encourage the active participation and involvement of employees from across the organization.

The organization shall establish, implement, and maintain an ongoing internal awards or incentive program for energy management and/or energy performance improvements.

Note: This credit can be claimed for all sites that are part of a multi-site SEP 50001 certification and SEP 50001 certification.

► Evidence of an awards or incentive program that recognizes and/or rewards five or more employees' accomplishments. One (1) point is awarded if the program rewards five or more employees' accomplishments; two (2) points are awarded if the program rewards ten or more employees' accomplishments.
NOTE: Award and incentive programs may reside at various levels within the organization, including at the corporate level.

► The organization shall show records related to this credit during the last year.

Show the number of employees who received awards in the row below, overwriting "Add text here ..."

Add text here ...

Professional Certifications

To promote the organization's investment in energy management competence that meets a recognized standard, the organization shall invest in the education and training of its employees.

During the last three years, the organization shall have invested in the education and training or in the hiring of professionals. The education shall also include ongoing training required to retain certification. The certified professionals shall be employed by the organization. This credit recognizes professional certifications (*Accredited per ANSI/ISO/IEC 17024*) accredited by the International Energy Management Professionals Association (IEnMP).

- Certified Energy Manager, CEM [Association of Energy Engineers (AEE)]
- Building Commissioning Professional, BCxP [ASHRAE]
- Building Energy Assessment Professional, BEAP [ASHRAE]
- Building Energy Modeling Professional, BEMP, [ASHRAE]
- High-Performance Building Design Professional, HBDP [ASHRAE]
- Certified Practitioner in Energy Management Systems, CP EnMS [Institute for Energy Management Professionals (IEnMP) *certifications available from other organizations and are listed on the IEnMP website*)]
- SEP Performance Verifier [IEnMP]
- EPI ISO 50001 Lead Auditor [IEnMP]
- Other energy related and energy management professional credentials that are ISO 17024 accredited and listed on the IEnMP website.

Note: This credit can be claimed for all sites that are part of a multi-site SEP 50001 certification and SEP 50001 certification.

► Evidence that the organization has employees with responsibilities in energy management that maintain follows:

- 1 employee certified: 2 points
- 3 employees certified: 3 points
- 5 employees certified: 4 points

Note: If the facility is part of a multi-site SEP 50001 certification under a central office EnMS, then a central office personnel of the facility seeking SEP 50001 recognition.

► Number of certified personnel to any of the credentials listed in the OS 3 credit statement

► Evidence that the organization has invested in the education and training required for employees to obtain certified professionals in the field of energy management, in the last three years.

NOTE: Professional certifications may reside at various levels within the organization, provided they support the site.

► Evidence of management commitment to sustain investment in energy management competence when acting to certify other personnel on staff.

► The organization shall show records related to this credit during the last three years.

Show the employee(s) names and credentials related to this credit in the row below, overwriting "Add text here ..."

Add text here ...

To ensure that priorities related to energy management needs, opportunities, and expectations are aligned with

Organizational strategic plans shall establish and address energy management priorities and shall allocate resources

► Evidence that the organizational strategic plans address energy management priorities and provide resources

NOTE: Examples of this evidence could include, but are not limited to:

- o Energy performance improvement goals.
- o Capital planning and budget allocations that include funding for energy projects.
- o Definition of how the energy management program and its objectives are integrated within various organizational processes, public relations, environmental safety and health, etc.

► The organization shall show records—and facility, business unit, enterprise or corporate plans—relevant to this credit

Note: This credit can be claimed for all sites that are part of a multi-site SEP 50001 certification and SEP 50002 certification.

Show where (filename and server/computer) data related to this credit are stored in the row below, overwriting "Add text here ..."

Add text here ...

Personnel on Energy Team

To enhance communication and interaction between the energy team and personnel that procure energy services

Personnel responsible for procurement activities of energy, and/or procurement of significant energy-related equipment, system and member of the energy team, and

- a) Participate at least quarterly in energy team meetings,
- b) Receive scheduled awareness training on energy, or significant energy-related equipment, system and member of the energy team, and
- c) Act as liaison to facilitate communication between energy and energy-related equipment, system and member of the energy team, and

Note: This credit can be claimed for all sites that are part of a multi-site SEP 50001 certification and SEP 50001 program.

▶ Evidence of energy team meetings that include personnel with procurement responsibility at least quarterly.

▶ Evidence that at least one energy team member has trained procurement personnel on energy, energy-related equipment, system and member of the energy team, and energy bids and contracts.

▶ The organization shall show records related to this credit during the reporting year or most recent year or most recent year, whichever applies.

Show the employee(s) names related to this credit in the row below, overwriting "Add text here ..."

Add text here ...

Success and Data

To encourage the organization to publicize their SEP 50001 experience by completing the *SEP 50001 Voluntary Cost/Benefit Form* and submitting it to the Administrator, and agreeing to share their success story on the SEP 50001 website.

The organization shall complete and submit the *SEP 50001 Voluntary Cost/Benefit Form* to the Administrator. The organization shall retain documentation from the Administrator that confirms acceptance of the top-down regression model, the associated energy data, as well as the *Declaration (Declaration)*. The organization shall submit the top-down regression model and associated energy data, as well as, the *Declaration (Declaration)* that was used to quantify and verify the SEnPI. The organization shall submit these materials after achieving acceptance of the top-down regression model, the associated energy data, as well as, the *Declaration (Declaration)*. The organization shall retain documentation from the Administrator that confirms acceptance of top-down regression model, the associated energy data, as well as, the *Declaration (Declaration)*. The organization participates in the development of a SEP 50001 success story based on completion of the *Declaration (Declaration)*. The organization shall retain documentation from the Administrator confirming acceptance of the top-down regression model, the associated energy data, as well as, the *Declaration (Declaration)*.



Document

▶ Evidence that the Administrator accepted the organization's *SEP 50001 Voluntary Cost/Benefit Form* via the Administrator's website.

▶ Evidence that the Administrator has accepted the organization's top-down regression model and associated energy data, as well as, the *Declaration (Declaration)* for the most recent SEP 50001 certification.

▶ Evidence that the Administrator has accepted the organization's Success Story Form from the most recent SEP 50001 certification.

Show where (filename and server/computer) the data related to this credit are stored in the row below, overwriting "Add text here ..."

Add text here ...

Contact the SEP 50001 Program Administrator at SEP50001@ee.doe.gov

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Points	Max Points
0	15

0	2
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- SELECT
- SELECT
- SELECT

Not claimed

0

1 to 2

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SELECT

Not claimed

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2 to 4

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SELECT

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1



SELECT

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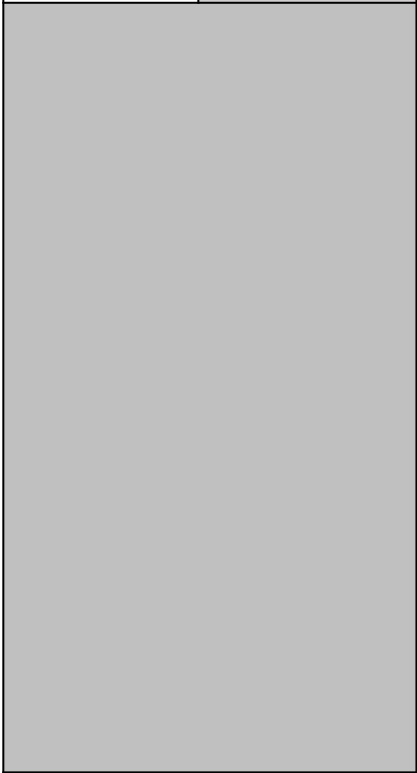
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1 to 4




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External programs and partners
facility energy teams and top m

- ▶ Receive public recognition (e
- ▶ Report to global environmer
- ▶ Promote and assist other org
- ▶ Partner with a local, third pa
- ▶ Demonstrate superior energy

External certification and

INTENT

CREDIT STATEMENT

CR 1

Measurement and
Verification Criteria

How the criteria was met

Corporate Reporting Sys

INTENT

CR 2

CREDIT STATEMENT

Measurement and
Verification Criteria

How the criteria was met

Promotion of ISO 50001

INTENT

CREDIT STATEMENT

CR 3

Measurement and
Verification Criteria

How the criteria was met

Third Party Energy Efficiency

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CREDIT STATEMENT

CR 4

Measurement and
Verification Criteria

Note: Rows #48-50 must be selected with (✓) in order to earn points for Row 51, Row 52, and/or Row 53.

How the criteria was met

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CREDIT STATEMENT

CR 5

Measurement and
Verification Criteria

How the criteria was met

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Energy Performance

Certification, Partnership, and Reporting (CPR)

Partnerships assist the facility to accelerate energy performance improvement and to increase energy management. Energy management may seek any of the following external facility certifications:

- (e.g., ENERGY STAR building or industrial plant certification);
- Energy reporting system(s);
- Partnerships with organizations to implement and achieve ISO 50001 Ready recognition, ISO 50001 or SEP 50001;
- Partnerships with utility or energy efficiency program to support the facility's ISO 50001 Ready, ISO 50001 or SEP 50001 energy performance through its ranking with a recognized external benchmark system.

Energy reporting programs

To provide credit for:

- Facilities that have certifications from nationally-recognized energy efficiency facility/building certification programs;
- Facilities whose corporation publicly reports energy performance improvement to an energy efficiency program.

During the past 12 months, the facility shall be certified to any of the following certifications:

- ENERGY STAR building or industrial plant certification
- Leadership in Energy and Environmental Design (LEED) new construction or LEED existing building, open office building, or school building
- Other certification approved by the Administrator

Or, during the past 12 months, the facility or facility's corporation shall have been recognized or submitted for recognition to any of the following:

- 50001 Ready recognized building, campus complex, or industrial plant
- Facility seeking SEP 50001 recognition is part of a corporation or organization that is a Better Buildings Performance Network member
- Other facility or corporate/organization recognition program approved by the Administrator

► Evidence of facility energy efficiency certifications (valid any time during the reporting year or most recent reporting period or certification date)

► Evidence of facility and/or corporation recognition (valid any time during the reporting year or most recent reporting period or certification date)

► Evidence of facility and/or corporation reporting programs (valid any time during the reporting year or most recent reporting period or certification date)

► Evidence that certifications, recognition, and reporting programs were valid any time during the reporting year or most recent reporting period (or certification date), whichever applies.

Show the names of the external certification and recognition programs in the row below, overwriting "Add text here ..."

Add text here ...

Items

To provide credit for facilities whose corporation has reported to a global environmental reporting system in the corporation's annual report or sustainability report.

During the last year, the organization shall have reported to any of the following corporate environmental reporting systems or achieved an approved SEP 50001 application or achievement of SEP 50001 certification of the facility:

- Carbon Disclosure Project (CDP)
- Global Reporting Initiative (GRI)
- Dow Jones Sustainability Index (DJSI)
- Others approved by the Administrator

and/or

The organization's annual report or sustainability report during the last year shall mention the facility's SEP 50001 certification or recognition.

Note: This credit can be claimed for all sites that are part of a multi-site SEP 50001 certification and SEP 50001 recognition.

► Evidence that the facility's corporation has reported to any of the global environmental reporting systems including evidence that the facility's Administrator-approved *SEP 50001 Scorecard Declaration* was included in the reporting system with a maximum of 3 points.

► Evidence that the corporation reported the facility's SEP 50001 certification and/or SEP 50001 recognition in the last year.

▶ Incentives or financial payments of \$25,000 or greater that are applied directly to the implementation of certification and not applied to capital improvements.

Show the third party program name(s) related to the credit in the row below, overwriting "Add text here ..."

Add text here ...

With Benchmarks

To permit organizations to demonstrate superior energy performance through its ranking within a recognized benchmarking system:

An organization shall demonstrate a ranking within the top levels of a nationally/internationally recognized benchmarking system. This credit addresses the organization's energy performance relative to the external benchmark. Claiming this credit can also qualify for this credit in terms of the ENERGY STAR EPI benchmarking score. A recognized and credible organizations such as industry associations, government entities, or industry consulting groups. Sector benchmarking for greenhouse gas emissions can be substantiated as a surrogate to a sector's energy consumption attributes to greater than 90% of the sector's greenhouse gas emissions.

▶ Evidence that the organization demonstrates a ranking within the top levels of a recognized external benchmark awarded as follows:

Organization's Position Relative to Benchmark System Levels:

Top 25%: 2 points

Top 10%: 3 points

Top 5%: 4 points

▶ The organization must demonstrate this credit using 12 months of energy data from the last three years.

Show the benchmark name and percentage ranking in the row below, overwriting "Add text here ..."

Add text here ...

Contact the SEP 50001 Program Administrator at SEP50001@ee.doe.gov

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g such recognition and/or certification; and

Points	Max Points
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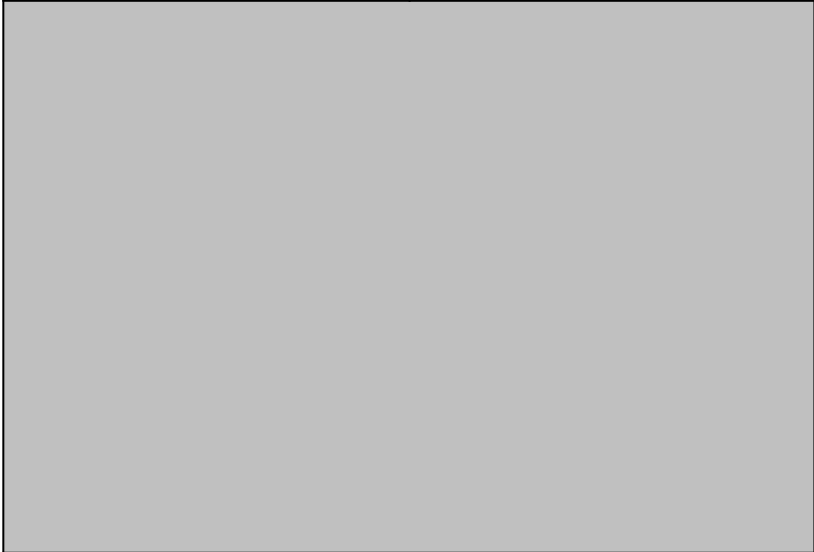
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Advanced technologies produce advanced energy technologies

- Submeters and sensors increase energy performance
- Advanced energy technologies develop performance technology development energy performance of the SE

Submeters and Smart Sensors

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CREDIT STATEMENT

AT 1

	Measurement and Verification Criteria
	How the criteria was met

AT 2	Other Advanced Technol
	INTENT
	CREDIT STATEMENT
	Measurement and Verification Criteria
	How the criteria was met

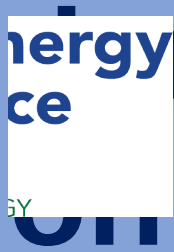
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Energy Performance

Advanced Energy Technologies

ice long-term impact on energy performance and support ISO 50001 and SEP 50001. Th
s. Facilities using any of these technologies can significantly improve their SEnPI value.

clude submetering, sensors, controls, and other technologies that inform or optimize en
ologies include those that a facility pilots or installs to achieve improvement in the energy
elopment, SEP 50001 will award points to facilities that pilot or install advanced techno
:Us.

Sensors and Controls

To improve energy performance by enhancing data collection through submetering and/or smart sensors a

- Two options are available to receive points for this credit, and both may be claimed.
 The organization shall receive points for demonstrated submetering of the facility's SEUs. Data from perma
 review and the measurement plan.
 Additional points will be awarded if a facility installs and uses smart sensors and control systems to more e
 wide energy performance improvement. Smart sensors and control systems include wireless or web-enabl
 have been measured to improve overall SEU energy performance by 5% or greater.
 The submeters and smart sensors and controls need to be in place at least 6 months of the 12-month SEP 5
- A submeter is defined as a fixed instrument or meter that continuously collects energy data.
 - A smart sensor is an instrument that detects or measures one or more physical properties that can imp
 - A smart control is an instrument that can automatically react and adjust operation to signals from smar
 - Smart sensors and control systems are wireless or web-enabled systems.

- ▶ Evidence that the facility uses submeters for collecting energy consumption data at least monthly and in
- ▶ Number of SEUs with installed submeters that measure the SEU's total energy consumption.
- ▶ Evidence the wireless or web-enabled smart sensors and are installed and impacting SEU energy perform
- ▶ Number of SEUs with installed smart sensors and controls

▶ The organization shall show records related to this credit indicating the submeters and/or smart senso most recent year (which may include a period of time after the reporting period or certification date), which

Indicate the SEUs and equipment related to this credit in the row below, overwriting "Add text here ..."

Add text here ...

logies

To give credit for using advanced energy technologies. Given the evolving nature of energy efficiency and e that pilot or install advanced technologies (other than those specifically mentioned in this Scorecard) that

The organization shall achieve energy performance improvement by implementing emerging technologies sites in their industry sector (based on their two digit NAICS code). These technologies and processes cann

In the organization's SEP 50001 Scorecard Declaration, the following information shall be submitted for ea

- ▶ Description of the emerging technology.
- ▶ Intent of the emerging technology action.
- ▶ Metric utilized to determine improvement.
- ▶ Energy performance improvement achieved.
- ▶ Justification for credit acceptance.

Credit for emerging technology shall be approved by the Administrator. One to four points shall be awarde awarded will be determined by the Administrator.

- ▶ Evidence of written approval by the 50001 SEP Administrator for measurement and verification criteria a
- ▶ Evidence of description and intent of the emerging technology.
- ▶ Evidence of reported energy performance improvement.
- ▶ Evidence of performance improvement metric including data, collection frequency, and trends.
- ▶ Evidence that the facility deployed the advanced technology or strategy.

Show the date of the written approval from DOE and the name of the emerging techn

Add text here ...

contact the SEP 50001 Program Administrator at SEP50001@ee.doe.gov

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delivery of technical assistance and other program services. The data you supply will be used to evaluate the effectiveness of inve

of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing da er aspect of this collection of information, including suggestions for reducing this burden, to Office of the Chief Information Offi dence Ave SW, Washington, DC, 20585-1290; and to the Office of Management and Budget (OMB), OIRA, Paperwork Reduction

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[Back to Scorecard](#)

nd sensors, and

r and energy
ve a positive impact on

Points	Max Points
0	8

0	1 to 4
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SELECT
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Not claimed

0	1 to 4
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Recognition programs.

Information. Send comments to control number 1910-5177,

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Advanced energy generative
technologies include combi

Combined Heat and Power

INTENT



CREDIT STATEMENT
Measurement and Verification Criteria

CREDIT STATEMENT

AS 1

Measurement and
Verification Criteria

How the criteria was

Use of On-Site Renewab

INTENT

CREDIT STATEMENT

CREDIT STATEMENT

AS 2

ement and Verification

How the criteria was

Questions or Comments: C

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regarding this burden estimate or any

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Notwithstanding any other provision c
valid OMB control number.

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Energy Performance

Advanced Energy Supply (AS)

on and supply technologies have a long term impact on energy performance and support
ined heat and power and technologies that use renewable energy, improve source ene

er

To promote utilization of combined heat and power (CHP) that support a facility's energy reliability, energy
reductions of operations, and energy utilization of existing fuel sources.

The two means of gaining points within this credit include pre-installation analysis or operation. A facility may claim points in two categories: CHP Potential or Operating CHP.

CHP Potential. Operations with simultaneous electricity (or shaft power) and thermal energy use shall have a CHP Potential. Qualification Screening is a high level economic analysis (often performed by the DOE CHP Technical Assistance Centers) that takes into account energy use and prices. A CHP feasibility study is a detailed engineering analysis that includes proper sizing of equipment employed, heat recovery method and application, system efficiency, avoided cost, and expected investment.

Operating CHP. Points are awarded for an installed CHP system based on its operating hours and total system efficiency.

To receive points for CHP total system efficiency, the CHP system must operate for a minimum of 2,000 hours per year (which may include a period of time after the reporting period or certification date). The following table shows the number of operating hours:

Installed CHP Operating Hours in the Last Year	Points
2,000 to 4,000 hours	2
4,000 to 6,000 hours	3
More than 6,000 hours	4

To receive points for total system efficiency, a facility must calculate the minimum CHP efficiency using the following formula:

$$\text{CHP Efficiency (\%)} = 100 \times (\text{Electrical/Mechanical Output [BTU]} + \text{Useful Thermal Output [BTU]}) / (\text{CHP Fuel Input [BTU]})$$

Note: The fuel energy input shall be based on the higher heating value of the fuel.

Only one of these options can be claimed for this credit. That means an organization can only claim one of the following options.

- ▶ Please select the CHP category for which you are claiming points.
- ▶ **CHP Potential:** Evidence of a CHP qualification screening or feasibility study completed during the last three years.
- ▶ **CHP Potential:** Select type(s) of screening and/or feasibility studies completed during the last three years.
- ▶ **Operating CHP:** Evidence a CHP system is operating per the requirements in the credit statement.
- ▶ **Operating CHP:** Evidence of determining CHP operating hours in the reporting year or most recent year (which may include a period of time after the reporting period or certification date) and the overall efficiency of the CHP system.

► Operating CHP: Evidence of determining overall efficiency of the CHP system.

Show where (filename and server/computer) the data related to this credit are stored

Add text here ...

le and Recovered Energy

To promote the installation of energy technologies that produce useful energy from renewable or recovered sources, this credit is designed to promote greater energy security, reliability, and improved economics in addition to other on-site benefits. While the primary focus is on the output of these energy technologies, this credit examines the capacity of the installed system as a percentage of the facility's total energy consumption rate.

A facility may only claim points from one of two categories: pre-installation (Renewable Potential) or operation (Recovered Energy Systems).

Renewable Potential. Facility conducts analysis of the potential for renewable or recovered energy system. The analysis includes an economic analysis that accounts for energy use and prices. A feasibility study is a detailed engineering analysis of the system, technology employed, system efficiency, avoided cost, and expected investment. The qualification analysis must have been conducted during the last three years.

Installed Renewable and/or Recovered Energy Systems. Renewable and recovered energy types include: biomass, municipal solid waste, waste fuels, waste gases, and any fuel or gas recovered from within the Scope of the credit and/or power within the boundaries of the EnMS. The facility may seek approval from the Administrator for other sources not on this list.

A facility calculates its Renewable and Recovered Fuels/Gases Capacity Factor as follows:

Renewable and Recovered Fuels/Gases Capacity Factor = $A / B * 100 (\%)$

A = Total nameplate power capacity of renewable and recovered fuel/gas systems (MMBTU per hour)

B = Average facility source energy consumption rate (MMBTU per hour)

A (MM Btu per hour) = [sum of all renewable electrical nameplate capacity (kW) * 3412 (Btu/kW) ÷ 106 (renewable non-electrical nameplate capacity (MMBTU per Hour))] + [sum of all recover fuels and gases (MMBTU per hour)]

B (MMBTU per hour) = [SEP 50001 certification reporting year period primary (source) energy consumption rate (MMBTU per hour) ÷ total annual hours of site operation]

Note 1: Site maximum hours are 8,760 hours per year. Some sites operate less than 24 hours per day, 365 days per year.

Note 2: The SEP 50001 Verification Body verifies and reports this number and to the Administrator on the SEP 50001 Improvement Report.

Note 3: This credit requires the actual consumption of the renewable and/or recovered energy on-site. A facility can be included in the SEP 50001 scope and boundary. Purchases of renewable or recovered energy from off-site

Only one option can be claimed for this credit. That means an organization can only claim one of the options below.

► Please select the Renewable category for which you are claiming points.

► Renewable Potential: Evidence of a qualification screening for renewable and/or recovered energy feasibility study for the last three years. The feasibility study will include details such as proposed size of the system, energy resource requirements, system efficiency, avoided cost, expected investment and potential investment cost off-sets, and tax points.

► Renewable Potential: Identify analyses of the potential for renewables during the last three years that would be used to claim this credit.

► Installed Renewable and/or Recovered Energy Systems: Evidence of installed renewable and/or recovered energy systems during the credit statement during the last year.

► Installed Renewable and/or Recovered Energy Systems: Capacity factor of the installed renewable or recovered energy systems during the credit statement year, as calculated per the credit statement.

Show where (filename and server/computer) the data related to this credit are stored

Add text here ...

Contact the SEP 50001 Program Administrator at SEP50001@ee.doe.gov

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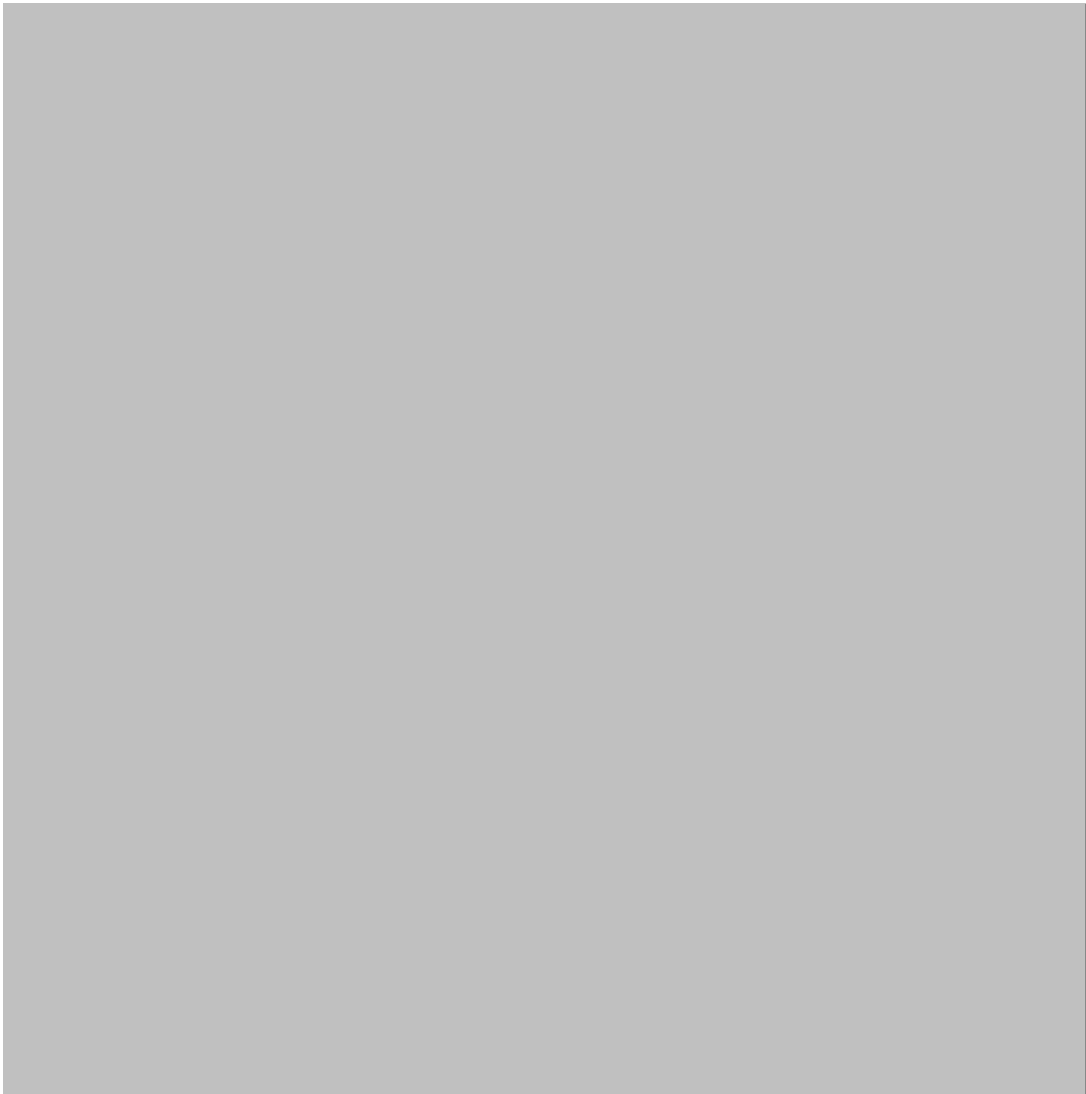
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SEP 50001. These advanced on-site energy generation
se gas emissions

Points	Max Points
0	20
0	1 to 10



both the CHP study and operating the CHP system.

SELECT	
SELECT	Please Select CHP Category
SELECT	Please Select CHP Category
SELECT	Please Select CHP Category
SELECT	Please Select CHP Category
SELECT	Please Select CHP Category



SELECT	Please Select CHP Category
Not claimed	Please Select CHP Category

0	1 to 10
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Renewable potential study and the qualifying system.

SELECT	
SELECT	Please Select Renewable Category
SELECT	Please Select Renewable Category
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SELECT	Please Select Renewable Category
Not claimed	Please Select Renewable Category

improve the usefulness of Federal technical assistance and recognition programs.

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ngton, DC 20503.

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This worksheet calculates an organization's energy performance and AS. The table automatically populates

Total Points

Energy Performance Improvement

		EP 1
Energy Management System (EMS)		
	Energy Data, Monitoring	
		DM 1
		DM 2
		DM 3
	Significant Energy	
		SU 1
		SU 2
		SU 3
		SU 4
		SU 5

Management c		
		EO 1
		EO 2
		EO 3
Organizational		
		OS 1
		OS 2
		OS 3
		OS 4
		OS 5
		OS 6
Certification, Partnership, and I		
		CR 1
		CR 2
		CR 3
		CR 4
		CR 5
Advanced Energy Technologies		
		AT 1
		AT 2
Advanced Energy Supply (AS)		
		AS 1
		AS 2

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Energy Performance 50001

Credit Categories

ion's SEP 50001 recognition score based on input the organization provides in the follow
ates the number of points claimed and recognition level based on the contents in the

Recognition Level

ment (EP)

Energy Performance Improvement

inMS)

Monitoring and Measurement (DM)

Availability of energy review

SEnPI quarterly updating

Cost centers

ergy Uses (SU)

Energy balance

Designation of significant energy uses

Energy performance and life cycle costing in equipment repair and re

Maintenance system includes energy performance guidelines

Monthly tracking of EnPI values for significant energy uses

of Energy Opportunities (EO)

Energy assessment of energy use(s)

Life cycle costing in evaluating energy performance capital improvem

Dedicated capital or operating budgets for energy projects

Sustainability (OS)

Resources: energy management team

Awards or incentive program for energy

Energy professional certifications

Strategic planning

Include procurement personnel on energy team

Share 50001 SEP experience and data

Reporting (CR)

External certification and recognition programs

Corporate reporting systems

Promotion of ISO 50001

Third party energy efficiency program participation

Superior performance with benchmarks

s (AT)

Sensors and submeters

Other advanced technologies

Combined heat and power

Use of onsite renewable energy and recovered energy

SEP 50001 Program Administrator at SEP50001@ee.doe.gov

nical assistance and other program services. The data you supply will be used to evaluate the effectiveness of investments in er

n is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, g
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/, Washington, DC, 20585-1290; and to the Office of Management and Budget (OMB), OIRA, Paperwork Reduction Project OMB

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orecard

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Points	Max Points
--------	------------

EP, DM, SU, EO, OS, CR, AT,

0	128
---	-----

0	33
0	33
0	44
0	6
0	1
0	2
0	2 to 3
0	12
0	2
0	1 to 3
0	2 to 4
0	1
0	2

0	11
0	2 to 4
0	3
0	1 to 4
0	15
0	2
0	1- 2
0	2 to 4
0	2
0	1
0	1 to 4
0	23
0	1 to 4
0	1 to 5
0	1 to 6
0	1 to 4
0	2 to 4
0	8
0	1 to 4
0	1 to 4
0	20
0	1 to 10
0	1 to 10

fulness of Federal technical assistance and recognition programs.

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Sc**

SEP 50001

The purpose of this worksheet is for a
the accuracy of this *Declaration*.

Upon completion, submit this *Declara*

Scorecard Total Points Claimed

SEP 50001 Recognition Level

Organizational Contact Information

Organization Name

Parent Company Name (if applicable)

Name of Site Seeking SEP 50001 Recognition

Organization Contact Name:

Main Contact Address

City, State, ZIP Code:

Phone Number

Email Address

SEP 50001 Certification Information

Date of SEP 50001 Program Certificate

SEP 50001 Program Certificate Number (if known)

Upgrading Recognition Level

[Skip this section if your organization is seeking recognition at the beg

Increase EP 1 credit points:

Organizations can change the EP 1 points earned by re-certifying early to SEP 50001 to obtain a new verified SEP 50001 Energy Performance Indicator (SEnPI) value, or have a certified SEP 50001 Performance Verifier verify a new SEnPI value, and thus increase the EP 1 point level.

Increases to other Scorecard points:

All Scorecard credit points (other than EP 1) may be upgraded at 12 and/or 24 months during the three-year SEP 50001 certification cycle. Points will either be maintained or increased; organization will not lose points.

Top Management Representative Attestation

I acknowledge that I have reviewed the information provided by my o material fact and I permit the information to be disclosed publicly in a

Name of Top Management Representative

Title of Top Management Representative

Email address of Top Management Representative

50001 Certified Practitioner in Energy Management Systems Attestation

I acknowledge that I have reviewed the information provided in this S statement of a material fact.

I was involved in the implementation of the ISO 50001 at this facility.
Note: If the 50001 CP EnMS was not involved with the ISO 50001 implementation, an onsite review is required.

Name of 50001 CP EnMS

Email address of 50001 CP EnMS

Questions or Comments: Contact the SEP 50001 Pro

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Superior Energy Performance Scorecard Declaration

01 Scorecard Declaration for

an organization to declare its SEP 50001 r

ation to the SEP 50001 Program Administ

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beginning of its three-year SEP 50001 certification or recertification cycle.

My organization seeks to increase EP 1 credit points.

Timeframe of upgrading recognition level relative to the beginning of the SEP 50001 certification cycle

My organization seeks to increase other *Scorecard* points.

Timeframe of upgrading recognition level relative to the beginning of the SEP 50001 certification cycle

Indicate which credits your organization seeks to upgrade.

organization in this *SEP 50001 Scorecard Declaration*. By providing information in accordance with the SEP 50001 recognition guidelines.

Add text here ...

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Signature

Signature of the SEP 50001 Scorecard Declaration on the credits and points claimed.

SELECT

Add text here ...

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Program Administrator at SEP50001@ee.doe.gov

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Other program services. The data you supply will be used to evaluate the

other program services. The data you supply will be used to evaluate the

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Recognition

Recognition score and to verify and attest to
operator at SEP50001@ee.doe.gov

cle.]

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ny name below, I affirm that this entry contains no untrue statement of a

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By providing my name below, I affirm that this *Declaration* contains no untrue

[Greyed-out text area]

effectiveness of investments in energy management systems and to improve the

effectiveness of investments in energy management systems and to improve the

searching existing data sources, gathering and maintaining the data needed, and information, including suggestions for reducing this burden, to Office of the Chief U.S. Department of Energy, 1000 Independence Ave SW, Washington, DC, 20585-20503.

ly with a collection of information subject to the requirements of the Paperwork



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Superior Scorecard

Scorecard

Title	Date
Superior Energy Performance 50001 Scorecard	17 July 2019, updated 05 February 2021
	17 July 2019, updated 6 Dec 2019
	17-Jul-19
	30-Apr-19
Superior Energy Performance® Scorecard	11 July 2016 (R1)

Superior Energy Performance™ Industrial Best Practices Scorecard	5-Dec-12
Superior Energy Performance™ Industrial Best Practices Scorecard	9-Nov-11

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Superior Energy Performance Scorecard Declaration

ANNEX A: Revision History

Version	Title
4.3	Superior Energy Performance 50001 Scorecard Declaration
4.2	Superior Energy Performance 50001 Scorecard Declaration
4.1	Superior Energy Performance 50001 Scorecard Declaration
4.0	Superior Energy Performance 50001 Scorecard Declaration
3.0	Superior Energy Performance 50001 Scorecard Declaration

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a you supply will be used to evaluate the effectiveness of investments in energy management systems and to
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ggestions for reducing this burden, to Office of the Chief Information Officer, Enterprise Policy Development &
and to the Office of Management and Budget (OMB), OIRA, Paperwork Reduction Project OMB control numb
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claration

Date	Version	Former Numbering System
10/6/2021	2019E	<i>[not used]</i>
2/5/2021	2019D	<i>[not used]</i>
12/6/2019	2019C	<i>[not used]</i>
5/30/2019	<i>[2019B not used]</i>	1.0.7
5/8/2019	<i>[2019A not used]</i>	1.0.6



improve the usefulness of Federal technical assistance and recognition programs.

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