

Energy and Independence Security Act (EISA) Section 432 Reporting Overview

Similar to the March EISA S432 reporting process, all June reporting requirements for EISA S432 will also be completed through the Dashboard. The table below outlines the actions required on the EISA S432 data entry modules to complete the June EISA S432 reporting process.

EISA S432 Evaluations - Collects information related to covered facility characteristics and evaluation status. To consider an evaluation complete, the entered evaluation data must be confirmed. Otherwise, the SPO is not able to report this into the Compliance Tracking System (CTS). Note, evaluations with dates in the future cannot be confirmed as completed.

Efficiency & Conservation Measures - Collects information related to energy and water efficiency and conservation measures identified during the evaluation process. Estimated utility and cost savings should be reported in the ECM Pipeline list and post-operational measurement and verification findings should be reported in the ECM M&V Findings list. In addition, the Dashboard provides analytics by calculating financial metrics and comparing measure performance based on data inputs.

EISA S432 Benchmarking - Displays benchmarking data uploaded from Portfolio Manager.

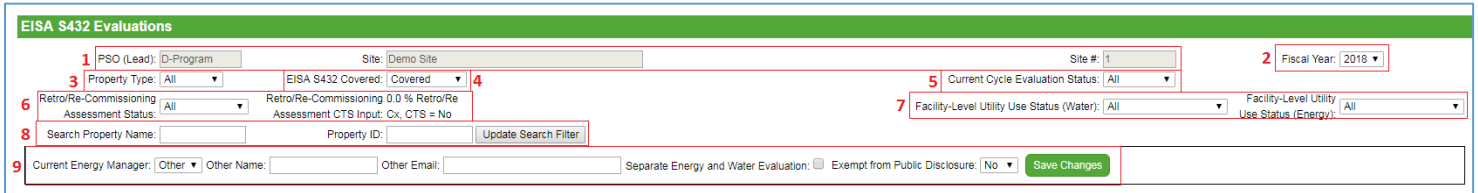
Data Entry Module	Action Required
EISA S432 Evaluations	<ul style="list-style-type: none"> Confirm or update energy manager information Enter or update current cycle evaluation dates For completed evaluations, confirm evaluation data is actual via checking the dialogue box Enter or update evaluation type and retro/re-commissioning assessment status. <p>Note: Covered Facility designation, energy, and water use were updated as part of the March EISA S432 reporting process and are currently locked. If updates are needed for these fields, contact the SPO.</p>
Efficiency & Conservation Measures (ECM Pipeline List)	<ul style="list-style-type: none"> Enter additional identified ECM findings. If time permits, update and verify accuracy of ECMs previously reported and prepopulated in the Dashboard.
Efficiency & Conservation Measures (ECM M&V Findings List)	<ul style="list-style-type: none"> Enter annual M&V findings, especially for performance based contracts.
EISA S432 Benchmarking	<ul style="list-style-type: none"> Informational. Data is read-only from Portfolio Manager upload. Correct any Portfolio Manager data based on SPO analysis to ensure proper Dashboard and CTS upload.
Completion Status Process	All data sets must be submitted for approval by selecting the gold Complete buttons at the bottom of the data entry screens and approved by managers.

All data should be submitted by Tuesday, June 22nd. If additional information is needed or for questions, please contact the SPO sustainability@hq.doe.gov.

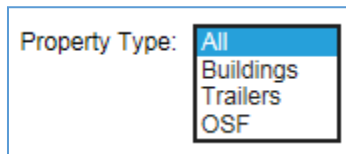
EISA S432 Evaluations

EISA S432, requires agencies to perform comprehensive energy and water evaluations for approximately 25% of covered facilities each year so that all covered facilities are evaluated on a 4-year cycle. The EISA S432 Evaluations module collects covered facility characteristics and associated evaluation status.

A description of the filters for viewing and editing data is as follows:



1. PSO, Site Name, and Site Number will be prepopulated.
2. Fiscal Year: Use the drop-down menu to select the desired year.
3. Property Type: You can filter the data by selecting the type of property from the drop-down menu as shown below.



4. EISA S432 Covered: This allows you to view all facilities or filter your facilities based on whether they are Covered or Not Covered. The default is “Covered”.
5. Current Cycle Evaluation Status: Use this drop-down to filter for Complete or Remaining evaluations.
6. Retro/Re-commissioning Assessment Status: This filter allows you to view facilities based on commissioning status. Next to the filter, the percent of covered facilities that have “Yes” for commissioning is shown along with the overall site level status that will be reflected in CTS.
7. Facility-Level Utility Use Status (Energy & Water): These filters allow for filtering by data entry type, such as if the usage info is being pulled from Portfolio Manager benchmarking data, the site manually entered the data, or no information has been provided.
8. Search Filters: These text boxes allow you to search for a specific property by typing in any keywords in the property’s name or by property ID.
9. Users can update the name of their Energy Manager, choose to separately report energy and water evaluation status instead of combined (default setting), and declare if the site is exempt from public disclosure. Note: there are very few cases which the information for EISA S432 is exempt from public disclosure.

Covered Facility Characteristics & Evaluation Status

Annually before the end of March, sites will need to review and update their covered facility characteristics. Covered facility energy should constitute at least 75% of the site’s total energy use. Note, this does not include renewable energy. Sites have until mid-June to complete annual evaluation status updates.

Facility level energy and water use data are required for covered facilities, while usage information is optional for facilities that are not covered. Data is automatically pulled from the benchmarking module for facilities that have their Portfolio Manager benchmarking data in the Dashboard. In such cases, usage information can only

be updated via Portfolio Manager. Information based on Portfolio Manager is indicated in the PM Benchmarking Data field.

The QA/QC Module calculates and displays the percentage of covered energy use for covered facilities and also displays the square footage, where evaluations have been completed for each 4-year evaluation cycle, remaining square footage, and the total covered square footage.

After all updates are completed for the March reporting deadline, submit the data by selecting the gold 'Complete EISA S432 Covered Status' button on the bottom of the data entry module. Use the gold "Complete EISA S432 Evaluation Status" button when you wish to submit you data for June reporting. Lastly, this data must be approved by a manager on the Completion Status module.

Guidance and details on the fields presented in the table are below.

Field	Description
Covered Facility?	Using the drop-down menu, select "Covered" or "Not Covered" to identify if the facility is covered and subject to the EISA S432 requirements. In general, at least 75% of the Site's total energy consumption must be considered "Covered." This field will mirror what is selected in the Facility Goal Category module.
Covered Change Justification	If sites change a facility from Covered to Not Covered or vis versa, a justification is required. Note: SPO recommends sites do NOT change a facility's Covered Status during the current evaluation cycle, especially if the facility has already been audited.
PM Benchmarking Data	This is a Dashboard automated field that notifies the user if the benchmarking data is being pulled from the Benchmarking module.
Energy Consuming SqFt	This is a Dashboard calculation based on data entered in the Goal Subject and Excluded Facilities fields on the Facility Goal Category module.
Prior FY Energy Use (10 ⁶ BTU/yr)	This field collects prior FY facility level Energy Use data, (e.g. for June 2018 reporting, report FY 2017 energy data). If available, it will be based on uploaded benchmarking data. If there is no data or the data is incomplete, this field will be blank and editable for manual data entry.
Prior FY Water Use (10 ³ BTU/yr)	This field collects prior FY facility level Water Use data (e.g. for June 2018 reporting, report FY 2017 water data). If available, it will be based on uploaded benchmarking data. If there is no data or the data is incomplete, this field will be blank and editable for manual data entry.
Previous Evaluation (Energy + Water)	This field will show the previous evaluation date from the last completed 4-year evaluation cycle.
Current Evaluation (Energy + Water)	Enter the planned or actual evaluation date for the current 4-year cycle of the given facility (Format: MM/DD/YYYY).
Evaluation Date is Actual (Energy + Water)	Check this box when the evaluation has been completed and finalized. Ensure the Current Evaluation date is accurate prior to checking this box.
Future Evaluation (Energy + Water)	This is an optional planning field that allows the user to enter a future evaluation date for the next 4-year cycle (Format: MM/DD/YYYY).

Field	Description
Evaluation Type/Level	<p>Select from the drop-down menu the Type/Level of evaluation performed. Evaluation type/levels consist of:</p> <p>ASHREA Level 1 – Preliminary or walk-through audit ASHREA Level 2 – General audit that expands on Level 1 ASHREA Level 3 – Comprehensive audit that expands on Level 2 Desk Audit Other</p>
Describe Other Evaluation Method	<p>If “Other” is selected from the Evaluation Type/Level, please provide a short description of the method used.</p>
Retro/Re-Commissioning Assessment	<p>Select from the drop-down menu facility retro/re-commissioned status.</p>
Additional Information	<p>Provide any additional pertinent information not captured in prior columns. For example, if the evaluation is not going to be completed in the four year cycle time frame.</p>

Efficiency & Conservation Measures

Annually, by mid-June, sites will need to review and update their efficiency and conservation measures (ECM) status in conjunction with their covered facility evaluations. This module collects information on identified, verified, awarded/funding approved, operational, or cancelled measures and any associated measurement and verification (M&V) data.

Based on information collected on measures, the Dashboard provides system calculated financial metrics as defined in the NIST Life-Cycle Cost handbook along with other metrics to assist with selection of measures for funding and assessing performance of operational measures.

A description of the filters for viewing and editing is below:

The screenshot shows the 'Efficiency & Conservation Measures' dashboard. At the top, there are fields for 'PSO (Lead): NNSA', 'Site: Albuquerque Complex', and 'Site #: 102'. Below these are several filter sections: '3' for 'Pre or Post Operation Measure List' with a dropdown set to 'ECM Pipeline'; '4' for 'Measure Status' with a dropdown set to 'All'; '5' for 'Measure Type' with a dropdown set to 'All'; '2' for 'Fiscal Year' with a dropdown set to 'All'; '6' for 'Funding Source' with a dropdown set to 'All'; '7' for search fields including 'Building Name', 'Search Site Measure #', and 'Search Site Project #'; '8' for 'Enter Discount Rate' with a value of '0.03' and an 'Apply' button; and '9' for 'Select Column(s) to View' with several checked options. At the bottom left, there is a '10' 'Complete ECM Pipeline' button. A note at the bottom left states: 'By clicking this button you will no longer be able to add/edit anything from this category, and this data will be marked to go to a higher level for review.'

1. PSO, Site Name, and Site Number will be prepopulated.
2. Fiscal Year: Use the drop-down menu to select the desired year.
3. Pre or Post Operation Measure List: Select from the drop-down menu to view and edit ECMs in the pipeline or operational and in M&V phase.
4. Measure Status: Select from the drop-down menu to filter by measure status.

The screenshot shows a dropdown menu for 'Measure Status'. The menu is open, showing the following options: 'All' (highlighted), 'Identified', 'Verified', 'Awarded/Funding Approved', 'Operational', and 'Cancelled'.

5. Measure Type: Select from the drop-down menu to view one type of measure.
6. Funding Source: Select from the drop-down menu to view by funding source.
7. Search: Use these fields to search by Building Name, Site Measure #, or Site Project #.
8. Discount Rate: To update the default Discount Rate for the Dashboard Metric Calculations, enter a value here and click Apply. The default rate set by the Dashboard team will be displayed in this field until adjusted by user.
9. Use these check boxes to expand or compress the table. Deselect the categories to hide them in the table.
10. Complete ECM Pipeline: When finished updating ECM list, use this button to submit the final data set.

More details and guidance on the ECM fields in the table are discussed below.

Field	Description
Measure Description	
Site Measure #	This is an open field to enter a site-level tracking # for the measure. It is recommended a value be entered once the project has been funded.
If the measure is part of a larger project, provide Site Project #	If applicable, provide a site project # for each set of measures. Moreover, this site project # can be used to identify bundled projects. Project bundling is recommended for small measures which alone are not financially attractive.
Dashboard Measure #	Dashboard assigned measure #. This is a unique measure # assigned by the system automatically for tracking and is not editable.
Reported Fiscal Year	This field will be auto-populated with the year the ECM is first recorded/reported.
Measure Status	Select the most appropriate status for each measure from the drop-down list. <ul style="list-style-type: none"> • Identified - Potential measure identified through an evaluation or by site energy manager(s) for which estimates are very rough and a formal proposal for the implementation of the measure has not been put forward. • Verified - The identified measure's sustainability metrics and costs have been checked for accuracy and confirmed. • Awarded/Funding Approved - Contract awarded/funding approved and/or construction has begun. • Operational - Construction complete and system is operating. • Cancelled - Project terminated or dropped. Provide short reason in "Additional Information".
Measure Type	Select a description that best describes the measure type from the drop-down list. If the measure type is not listed, select "Other" and ensure a measure description is provided in the adjacent column.
Measure Name or Description	Provide a short description of the measure. The description should include details not captured by the project "type."
Is this a multiple or single facility measure?	Use the drop-down list to indicate if the ECM is being implemented across multiple facilities or a single facility.
Select the impacted facility real property unique ID	Check the box for each facility impacted by the measure. A list showing facility name, property ID, and real property unique ID will be visible and searchable.
Measure Location (Zip Code)	Provide the zip code for the location where the measure will be implemented.
Estimated Service Life/Life of Project	Select the expected service life of the measure from the drop-down list.

Field	Description
Does the measure contribute to the reduction of deferred maintenance?	If this measure reduces the site's deferred maintenance, select "Yes" from the drop-down list. Otherwise, select "No." Note: This is useful in prioritization of projects that not only meet goal requirement but also help reduce deferred maintenance. Also, this will identify instances that sites are going beyond traditional maintenance for meeting requirements.
Does the measure take place at a covered/not covered and/or goal/excluded facility?	Select the appropriate response from the drop-down list.
Funding & Cost Information	
Has this measure been included in an official DOE budget request?	Select the appropriate response from the drop-down list.
Funding Source	Select an appropriate funding source from the drop-down list. If a source has not yet been identified, select "Unknown." This applies both to projects that are currently funded and to those projects where money is not yet readily available, but funding is being pursued.
Describe "Other" Funding Source	If "Other" was selected as the Funding Source, enter a brief description.
Direct or Indirect Appropriated Funds?	For appropriated funds, select Direct or Indirect from the drop-down list.
Actual Funding Source?	Check this box to confirm that the funding source is actual. This field is required before saving if the status of the ECM is Awarded or Operational.
Date Funding Accepted and Actualized	Provide the date when funding was Accepted or Actualized in the format: MM/DD/YYYY.
Starting Year of Measure Implementation (Anticipated or Actual)	Provide the anticipated or actual starting year for which the measure will begin execution.
Completion/Operational Year of Measure (Anticipated or Actual)	Provide the anticipated or actual completion (operational) year for the proposed measure.
Operational Year is Actual	Check this box to indicate the Completion/Operational Year is the final and actual year.
Estimated Implementation Cost (\$)	Enter in whole dollars (not thousands or millions) the estimated cost for implementing the measure. Implementation cost consists of such costs as energy surveys, feasibility studies, engineering design, and construction including labor and materials. The implementation cost should not include the cost of financing the projects over time if using performance based contracts.

Field	Description
Estimated Other Investment Costs (\$)	Enter in whole dollars (not thousands or millions) the estimated other investment costs for implementing the measure. Other costs include operation and maintenance, measurement and verification, etc.
Estimated Financing Costs (\$)	Enter in whole dollars (not thousands or millions) the estimated financing costs for implementing the measure. Typically for measures funded over time through performance based contracts.
Measurement and Verification	
Are there plans to measure and verify the performance of this measure?	<p>EISA S432 requires follow up on implemented measures for measurement and verification (M&V) of performance. DOE encourages M&V of implemented measure and projects. However, it is understood that it may not be cost-effective to perform continuous M&V on all measures. As such, sites should update this column to identify projects where continuous M&V is cost-effective and will be performed as part of their EISA evaluations. Note, the DOE Finance Handbook requires M&V of projects whereby the annual cost avoidance exceeds the amortized annual cost of the measure.</p> <p>Note: All ESPC funded projects are required to have M&V. Sites are strongly encouraged to follow up on all other large and/or performance based financed projects.</p>
Justification for not measuring and verifying performance.	If no M&V will be performed, provide a justification. This is a required field for measures that are funded through performance contracts or where the annual cost avoidance is greater than the amortized annual cost.
Cost Savings	
Estimated Annual Energy Cost Savings (\$/yr)	Enter in whole dollars (not thousands or millions) the estimated annual energy cost savings expected from the measure. If there are no savings associated with the measure or savings are unknown, enter "0."
Estimated Annual Water Cost Savings (\$/yr)	Enter in whole dollars (not thousands or millions) the estimated annual water cost savings expected from the measure. If there are no savings associated with the measure or savings are unknown, enter "0."
Estimated Annual Cost Savings (\$/yr) from switching to a renewable energy source	If applicable, provide cost savings resulting from the renewable energy measure in whole dollars (not thousands or millions). Otherwise, enter "0."
Estimated Annual Ancillary Cost Savings (\$/yr)	Enter in whole dollars (not thousands or millions) the estimated annual other ancillary cost savings expected from the measure. These may include savings due to reduced maintenance, operational costs, repairs, etc. If there are no savings associated with the measure or it's unknown enter "0."
Energy Source Savings	
Estimated Annual Electricity Saved (MWh/yr)	Provide estimated Electricity saved, if applicable. If there are no savings associated with the measure or savings are unknown enter "0."

Field	Description
Estimated Annual Fuel Oil Saved (10 ³ Gal/yr)	Provide estimated Fuel Oil saved, if applicable. If there are no savings associated with the measure or savings are unknown enter "0."
Estimated Annual Natural Gas Saved (10 ³ Cf/yr)	Provide estimated Natural Gas saved, if applicable. If there are no savings associated with the measure or savings are unknown enter "0."
Estimated Annual LPG/Propane Saved (10 ³ Gal/yr)	Provide estimated LPG/Propane saved, if applicable. If there are no savings associated with the measure or savings are unknown enter "0."
Estimated Annual Coal Saved (Short Ton/yr)	Provide estimated Coal saved, if applicable. If there are no savings associated with the measure or savings are unknown enter "0."
Estimated Annual Steam Saved (10 ⁶ BTU/yr)	Provide estimated Steam saved, if applicable. If there are no savings associated with the measure or savings are unknown enter "0."
Estimated Annual Chilled Water Saved (10 ⁶ BTU/yr)	Provide estimated Chilled Water saved, if applicable. If there are no savings associated with the measure or savings are unknown enter "0."
Estimated Annual Hot Water Saved (10 ⁶ BTU/yr)	Provide estimated Hot Water saved, if applicable. If there are no savings associated with the measure or savings are unknown enter "0."
Estimated Annual Other Saved (10 ⁶ BTU/yr)	Provide estimated "Other" saved, if applicable. If there are no savings associated with the measure or savings are unknown enter "0."
If "Other" what is "other"?	If "Other" Savings were realized, provide a brief description of "other".
Water Source Savings	
Estimated Annual Potable Water Savings (10 ³ Gal/yr)	Enter in thousands of gallons the estimated annual potable water savings expected from measure. If there are no savings associated with the measure or savings are unknown enter "0."
Estimated Annual ILA (Non-Potable Freshwater) Savings (10 ³ Gal/yr)	Enter in thousands of gallons the estimated annual Industrial, Landscaping, and Agricultural (ILA) non-potable freshwater savings expected from the measure. If there are no savings associated with the measure or savings are unknown enter "0."
Renewable Energy Output	
Estimated Annual Renewable Electricity Output (MWh/yr)	Enter in megawatt-hours the estimated annual renewable electric output expected from the renewable energy system.
Estimated Annual Renewable Thermal Output (10 ⁶ BTU/yr)	Enter in millions of BTUs the estimated annual renewable thermal output expected from the renewable energy system.
Notes	
Site Priority	Optional planning field for prioritizing measure implementation per site mission, need, preference, etc.

Field	Description
Additional Information	Provide any additional pertinent information on the measure not captured in prior columns.
Upload Documents	This function allows the upload of any supplemental documents.
Last Updated	This column will provide users with the last time the information was updated. Includes Date, Time, and User.

When reporting on M&V for an implemented measure, most of the fields are the same as the pipeline except that the savings and output information are based on findings.

Field	Description
Measurement and Verification	
Follow Up Date	Provide the actual date the M&V was performed and completed (Format: MM/DD/YYYY).
Follow Up Methodology	From the drop-down list select the M&V methodology. <ul style="list-style-type: none"> • A – Retrofit Isolation with Key Parameter Measurement • B – Retrofit Isolation with All Parameter Measurement • C – Utility Data Analysis • D – Calibrated Computer Simulation • E – Spot Measurement
Roll Over Option (Auto Populate Savings)	If savings and output are the same as original estimates or prior year findings, select the appropriate check box. This will automatically populate all relevant fields. Manually enter savings and output information if they are different.

EISA S432 Benchmarking

The EISA S432 Benchmarking page is under construction. No action required.