

Federal Building Energy Use Benchmarking Guidance

August 2014 Update

Use of Energy and Water Efficiency Measures in Federal Buildings (42 U.S.C. § 8253[f])

> United States Department of Energy Washington, DC 20585

I. Background

A. Authority – Benchmarking Requirements

Section 432 of the Energy Independence and Security Act of 2007 (EISA) requires the Secretary of the United States Department of Energy (DOE) to select or develop a building energy use benchmarking system and to issue guidance for use of the system. EISA also requires designated agency energy managers to enter energy use data for each metered building under 42 U.S.C. § 8253(e) that is (or is a part of) a covered facility into a building energy use benchmarking system, such as the ENERGY STAR Portfolio Manager tool (Portfolio Manager) (*see* 42 U.S.C. § 8253(f)(8)(A), as referenced in section III of this Guidance and in Appendix A). In addition, energy managers shall post and update the benchmarked buildings' performance data each year in the web-based EISA section 432 Compliance Tracking System (CTS) developed by DOE to track compliance with Section 432 of EISA. *See* 42 U.S.C. § 8253(f)(8)(C).

On December 5, 2013, President Obama issued a Presidential Memorandum entitled *Federal Leadership on Energy Management* (Presidential Memorandum), which addresses the benchmarking of Federal buildings and disclosure of building performance data. Section 3(a)(iii) of the Presidential Memorandum directs each agency to "ensure that for any agency buildings metered for energy and water performance, the associated monthly performance data is entered into the EPA ENERGY STAR Portfolio Manager to better manage energy performance and allow for benchmarking." Section 3(a)(iv) directs agencies to "publicly disclose annual benchmark energy performance data through the Department of Energy web-based tracking system established under section 543(f)(7)(B) of NECPA (42 U.S.C. 8253(f)(7)(B))." Section 3(c)(ii) directs DOE through the Federal Energy Management Program (FEMP), in coordination with EPA, to revise and update this benchmarking guidance, "including necessary revisions to benchmark building performance data fields and disclosure policies."

B. Criteria for "Facilities", "Covered Facilities", and "Metered Buildings"

1. Criteria for "Facilities" and "Covered Facilities"

For the purpose of benchmarking building energy performance under section 432 of EISA, the term "facility" means "any building, installation, structure, or other property (including any applicable fixtures) owned or operated by, or constructed or manufactured and leased to, the Federal Government." *See* 42 U.S.C. § 8253(f)(1)(C)(i). The term "facility" also includes:

- 1. "A group of facilities at a single location or multiple locations managed as an integrated operation" (42 U.S.C. § 8253(f)(1)(C)(ii)(I)); and
- "Contractor-operated facilities owned by the Federal Government" (42 U.S.C. § 8253(f)(1)(C)(ii)(II)).

The term "facility" does not include "any land or site for which the cost of utilities is not paid by the Federal Government" (42 U.S.C. § 8253(f)(1)(C)(iii)).

For the purpose of compliance with section 432 of EISA, the term "covered facilities" means "Federal facilities, including central utility plants and distribution systems and other energy intensive operations, that constitute at least 75 percent of facility energy use at each agency." 42 U.S.C. § 8253(f)(2)(B).

More information on EISA Federal facility criteria is found in **"Facility Energy Management Guidelines and Criteria for Energy and Water Evaluations in Covered Facilities"** <u>http://energy.gov/sites/prod/files/2013/10/f3/eisa_s432_guidelines.pdf</u>.</u>

2. Criteria for "Metered Buildings"

Metering plays the central role in supplying performance data for building benchmarking. DOE has determined that the statutory requirement and Presidential Memorandum directives apply to each individual building that is outfitted with a meter under 42 U.S.C. § 8253(e)¹ and that is or is a part of a "covered facility." These may be buildings that are stand-alone and separately-billed, or multiple buildings that are separately metered on Federal campuses or installations. Metered buildings that are not (or are not part of) EISA "covered facilities" are not required to be benchmarked, but agencies are encouraged to benchmark and disclose the performance data of these buildings as well.

C. Definitions

Benchmarking – The practice of accounting for and comparing a metered building's current energy performance with its energy baseline or historical performance, or comparing a metered building's energy performance with the energy performance of similar types of buildings.

Benchmarked Building – A building in which complete building square footage and energy consumption data has been entered into Portfolio Manager for at least 12 consecutive months, enabling the building to receive weather-adjusted energy use intensity (EUI) metrics (Btu per gross square foot) and a performance rating for that performance period, if it is eligible. If water use is metered, annual water use must also be entered in Portfolio Manager for the building to be considered benchmarked under this requirement.

Building Energy Use Benchmarking System – A tool or system of tools that enables the energy performance of a metered building to be benchmarked. The Presidential Memorandum of December 5, 2013, *Federal Leadership on Energy Management* provides that each agency shall ensure that for any agency buildings metered for energy and water performance, the associated

¹ DOE has developed guidance on facility metering requirements under Federal Building Metering Guidance (per 42 U.S.C. § 8253(e), Metering of Energy Use), see <u>http://energy.gov/eere/femp/downloads/guidance-electric-metering-federal-buildings</u>

monthly performance data is entered into the EPA ENERGY STAR Portfolio Manager to better manage energy performance and allow for benchmarking. Therefore, ENERGY STAR Portfolio Manager is the designated building energy use benchmarking system for use in fulfilling Federal benchmarking requirements.

Energy Baseline – An initial 12-month period of metered energy consumption used as a point of reference for comparison purposes.

Rating – The relative indicator of performance obtained from a benchmarking tool, such as the ENERGY STAR Score from Portfolio Manager. The rating allows the energy performance of the metered building or facility to be compared over time with itself and with the energy performances of similar types of buildings and facilities.

II. Designated Benchmarking System

A. ENERGY STAR Portfolio Manager

ENERGY STAR Portfolio Manager is the building energy use benchmarking system that DOE has selected to use for metered buildings that are, or are part of, covered facilities. *See* 42 U.S.C. § 8253(f)(8). Portfolio Manager was selected because of the following characteristics:

- 1. Portfolio Manager compares the energy performance of a building to a statistically representative model created with data from the Energy Information Administration's Commercial Building Energy Consumption Survey (CBECS);
- 2. Portfolio Manager is able to provide an energy performance rating for several commercial building types that represent over 60 percent of the U.S. commercial floor space;
- 3. Portfolio Manager was designed for benchmarking and is capable of storing energy consumption data;
- 4. Portfolio Manager is a Web-based application with secure access. A Portfolio Manager user controls data access and chooses whether or not to share building data with other Portfolio Manager users;
- 5. All commercial and institutional buildings can use Portfolio Manager to track energy consumption over time, and also can track water consumption, energy costs, water costs, and carbon emissions; and
- 6. Portfolio Manager is simple to use, requires minimal, easy-to-acquire information, and is easily understood.

Portfolio Manager rates the energy consumed by a building or facility on a scale of 1 to 100, relative to similar buildings nationwide. Known as the ENERGY STAR Score, this score indicates how a building performs against peer facilities nationwide using weather normalized source energy data. It also adjusts for the unique operating characteristics of the building, such as operating hours and occupancy. The score indicates a percentile rank of the facility once all

required data is entered. A building with a score of 75 or higher is eligible for ENERGY STAR Certification. While attainment of ENERGY STAR Certification is encouraged, it is not required.

Building space types eligible to receive an ENERGY STAR score using Portfolio Manager include: offices, medical office buildings, hospitals, courthouses, warehouses, residence halls/dormitories, banks/financial institutions, hotels, K-12 schools, houses of worship, retail stores, supermarkets, multifamily housing, and wastewater treatment plants. Ratings for additional building space types are added periodically.

For those buildings that are not eligible to receive an ENERGY STAR Score using Portfolio Manager, the U.S. Environmental Protection Agency (EPA) includes the national median for a number of building types as a point of comparison. These national medians are neither normalized for climate nor adjusted for activities that may affect energy use. The national medians are expressed as energy use intensities and most are derived from CBECS. The national medians can be used for some building types that cannot receive a score.

Buildings do not have to receive an ENERGY STAR Score in order to be considered benchmarked under this requirement.

Portfolio Manager can track the energy use intensity of a campus or other collection of buildings at the same geographic location. However, most "campus" facilities cannot receive an ENERGY STAR Score. The only exceptions to this are hospital campuses, senior care facilities, hotels, schools, and multifamily housing, which must include support facilities if they are not part of the main building(s).

B. Alternative Benchmarking Tools

Formerly, agencies were permitted to use alternative benchmarking tools such as the Labs 21 Benchmarking Tool or the Data Center Energy Profiler to fulfill the requirement for laboratories and data centers. However, the Presidential Memorandum, *Federal Leadership on Energy Management* requires agencies to use ENERGY STAR Portfolio Manager as the benchmarking tool to comply with the Federal building benchmarking requirements. Agencies may continue to use these and other existing agency tools for their own internal benchmarking, but must also use ENERGY STAR Portfolio Manager to meet the benchmarking and disclosure requirements.

III. Benchmarking Requirements

A. Benchmarking Performance of Metered Buildings

DOE has determined that the statutory requirement and Presidential directive apply to each individually-metered building under 42 U.S.C. § 8253(e) that is (or is a part of) a "covered facility."

Agencies should begin to use ENERGY STAR Portfolio Manager to track energy performance as soon as electricity is metered. All applicable sources of energy consumed by a building will need

to be entered into Portfolio Manager, including natural gas, steam, chilled water, propane, fuel oil, etc., to obtain a complete and accurate benchmarking result that can be used to assess the building's energy performance. Consumption for unmetered energy types can be obtained from billing information provided by the energy suppliers or estimated for buildings on multi-building campuses or installations.

Instances where a limited number of contiguous buildings (2 to 5) share electricity meters or centralized heating/cooling plants may be benchmarked as a property with multiple buildings in Portfolio Manager, providing a path for compliance for these types of facilities.

When a building is also metered for water consumption, water use must also be tracked in Portfolio Manager and disclosed.

Agencies with metered buildings that are less than 5,000 square feet should focus resources on benchmarking larger buildings in their inventories before benchmarking these smaller buildings.

Agency progress in benchmarking required buildings may be assessed annually in terms of percentage of buildings benchmarked per buildings metered for electricity in covered facilities or percentage of total covered facilities' square footage that is benchmarked.

B. Minimum Data Input Required for Benchmarking Metered Buildings

The following data is necessary in order to meet the statutory and Presidential Memorandum benchmarking requirements and to ensure that designated energy managers have the information they need to ensure the agency fulfills the requirements of EISA Section 432:

- 1. Building Characteristics:
 - a. Type of building or facility (according to use, such as office, hospital, courthouse, warehouse, etc.);
 - b. Building or facility location;
 - c. All floor area (gross square feet) in the building;
 - d. Building use details, which are specific to each building type (ex., occupancy and operating hour information), are optional but necessary for calculating a more accurate ENERGY STAR Score for eligible building types.
- 2. Energy Consumption Includes (standard or advanced) metered monthly energy consumed by the building, as well as measured or estimated energy consumed from all other fuels.

Reporting building water consumption data is required to meet the Federal building benchmarking requirement for buildings that are metered for water use. Portfolio Manager provides multiple water consumption fields for reporting, but water use does not contribute to the ENERGY STAR score. CTS will accept reported water use data from Portfolio Manager, and will disclose the water use data to the public for those buildings metered for water use.

C. Benchmarking Data Reported to the Web-Based Compliance Tracking System

The annual performance information generated from Portfolio Manager from energy managers' inputs shall be posted into CTS for each fiscal year. The process of exporting annual benchmarking data from Portfolio Manager is explained in Appendix B.

This information shall be updated each year, and CTS will include the previous years' information to allow changes in building performance to be tracked over time.

Below is a summary of the building-level benchmarking metrics that are tracked annually in CTS:

- Building Name
- Building Identifier--- US Federal Real Property Profile Unique Identifier
- Location---city, state, zip code
- Type of building---per current ENERGY STAR Portfolio Manager types and mixed use/other (those that can be receive a score and those without scores)
- Building total floor space (Thou. Sq. Ft.)
- Annual energy use in terms of site-delivered million Btu
- Annual energy use in terms of source million Btu
- Annual site-delivered energy intensity (calculated kBtu/Sq. Ft.)
- Annual source energy intensity (calculated kBtu/Sq. Ft.)
- Annual weather-normalized site-delivered energy intensity (kBtu/Sq. Ft.)
- Annual weather-normalized source energy intensity (kBtu/Sq. Ft.)
- ENERGY STAR score for building type (1-100) (if applicable)
- Annual water use (thousand Gallons) (if metered)
- Annual water use intensity (Gallons/Sq. Ft.) (if metered)
- Greenhouse Gas Emissions (MT CO₂e)

DOE will make the building-level benchmarking information in the web-based tracking system available to the public at <u>http://energy.gov/eere/femp/eisa-compliance-tracking-system-reports-and-data</u>. Overall agency progress in benchmarking buildings will be tracked in CTS and also made available to the public. The detailed data dictionary including which data elements are available for public disclosure is contained in Appendix C.

D. Public Disclosure

EISA provides that, subject to certain exemptions, DOE must make the web-based tracking system available to Congress, other Federal agencies, and the public through the Internet. *See* 42 U.S.C. § 8253(f)(7)(C)(i). CTS provides data at the Federal agency level, facility-level, and subagency level (for some agencies). Each agency's data aggregated at the top-tier of its organization is publically available to demonstrate Government and agency progress in meeting the requirements for benchmarking. Sub-agency aggregated data is also available to the general public, at the discretion of the top-tier agency or Department. The CTS data findings are available to the public at http://energy.gov/eere/femp/eisa-compliance-tracking-system-reports-and-data.

In general, complete facility-level detailed data are publicly available within agency-defined organizational boundaries by default for the most recent and prior years. Facility- and building-level data are also available to the general public for review unless the Secretary of Energy grants an exemption from public disclosure for national security purposes.

Agencies may request that specific data from individual buildings and/or entire facilities not be made public if public disclosure would raise national security concerns. *See* 42 U.S.C. § 8253(f)(7)(C)(ii). The head (or appropriate delegate) of each top-tier Department or agency should submit a consolidated request to exempt data for specific covered facilities (and/or benchmarked buildings associated with the covered facilities) from public disclosure to the Secretary of Energy within 90 days of the release of this Guidance.

The non-disclosure requests must contain each of the following elements:

- 1. Identity of each covered facility and/or associated benchmarked buildings for which the exemption is sought,
- 2. The specific data elements sought to be withheld from the public, and
- 3. The reason public disclosure would affect national security.

Citation of agency internal guidance or other authorities supporting the decision is also encouraged. (See Appendix D for the format and process for requesting non-disclosure.) Requests **must not include** information that is sensitive or classified. Although facility-level data that is exempt from public disclosure will not be disclosed, this data will still be included in top-tier agency totals, to the extent possible. If, in the future, there is a need to apply the exemption to a facility because building stock/functions change, requests to withhold data from public disclosure must be submitted to the Secretary of Energy, through FEMP, 90 days prior to required nondisclosure. Changes to the exemption status of specific data for specific buildings must be submitted to the Secretary of Energy, through FEMP, 90 days prior to removal from public disclosure.

Greater transparency, through the provision of various data sets and reports for viewing by internal energy and facilities managers, other agency energy and facility managers, DOE, OMB, and the general public, is meant to accelerate continuous improvement of energy efficiency and water measures, adoption of best practices, demonstration and achievement of savings, and optimization of energy and water efficiency measures.

E. Periodic Review

This guidance will be reviewed, as necessary, to accommodate changes in statutory requirements or related guidance.

IV. Resources

- 1. Energy Independence and Security Act, Section 432: Federal Facility Management and Benchmarking Requirements Overview: <u>http://energy.gov/eere/femp/eisa-</u> section-432-federal-facility-management-and-benchmarking-requirements
- 2. **EISA 432 CTS Reports and Data:** View publicly-available reports and data illustrating Federal progress in meeting the requirements of Section 432 of EISA: http://energy.gov/eere/femp/eisa-compliance-tracking-system-reports-and-data
- 3. Federal Building Metering Guidance (per 42 U.S.C. § 8253(e), Metering of Energy Use), see <u>http://energy.gov/eere/femp/downloads/guidance-electric-metering-federal-buildings</u>
- 4. **Benchmarking Starter Kit** The Benchmarking Starter Kit provides step-by-step guidance on how to benchmark a building using Portfolio Manager. The Benchmarking Starter Kit can be found on the ENERGY STAR website at <u>www.energystar.gov</u>.
- 5. Energy Star Portfolio Manager FAQ, How do I input my building's CTS ID into Portfolio Manager?: <u>http://portfoliomanager.supportportal.com/link/portal/23002/23010/Article/35782/How-</u> do-I-input-my-building-s-CTS-ID-into-Portfolio-Manager
- 6. Energy Star Portfolio Manager FAQ, How do I export my buildings' data to CTS?: http://portfoliomanager.supportportal.com/link/portal/23002/23010/Article/35783/Howdo-I-export-my-buildings-data-to-CTS
- ENERGY STAR Portfolio Manager EISA 432 CTS Export Templates: Release Federal agency benchmarking data to CTS: <u>https://www.eisa-432-cts.eere.energy.gov/EISACTS/</u>

Appendix A: 42 U.S.C. § 8253(f) (EISA 2007 Section 432)

The two statutory sections that directly pertain to benchmarking are as follows:

1. Web-Based Tracking System (42 U.S.C. § 8253(f)(7)(B)(i)) – "Not later than 1 year after December 19, 2007, the Secretary shall develop and deploy a web-based tracking system required under this paragraph in a manner that tracks, at a minimum --"

•••

"(V) the benchmarking information disclosed under paragraph (8)(C)."

2. Benchmarking of Federal Facilities (42 U.S.C. § 8253(f)(8))

"(A) IN GENERAL.--The energy manager shall enter energy use data for each metered building that is (or is a part of) a facility that meets the criteria established by the Secretary under paragraph (2)(B) into a building energy use benchmarking system, such as the Energy Star Portfolio Manager.

(B) SYSTEM AND GUIDANCE.--Not later than 1 year after December 19, 2007, the Secretary shall--

(i) select or develop the building energy use benchmarking system required under this paragraph for each type of building; and

(ii) issue guidance for use of the system.

(C) PUBLIC DISCLOSURE.--Each energy manager shall post the information entered into, or generated by, a benchmarking system under this subsection, on the web-based tracking system under paragraph (7)(B). The energy manager shall update such information each year, and shall include in such reporting previous years' information to allow changes in building performance to be tracked over time."

Appendix B: Export of Annual Benchmarking Data from Portfolio Manager to CTS

A. Add/Edit metered property information in Portfolio Manager

This section describes the overall process for entering benchmarking data into Portfolio Manager with respect to CTS requirements. Specific instruction in the use of the Portfolio Manager website is available on-line within the application.

- Once registered and logged into Portfolio Manager, access the "Add a Property" function from the "My Portfolio" page. To access the information below for an existing building in Portfolio Manager, select the building you wish to edit and then click "Edit" in the "Basic Information" table on the property's "Details" tab
- 2) Proceed to the "Set up a Property: Let's Get Started!" page (see screen shot below)
 - a. Select the property's Primary Function from the list
 - b. Specify whether the property is part of a building, a single building, or multiple buildings
 - c. Specify whether the property is an existing property or in the Design phase

Pro	et up a Property: Let's Get Started! perties come in all shapes and sizes, from a leased space in a large office building, to a K-12 school with a pool, to a lar dings. Since there are so many choices, Portfolio Manager can walk you through getting your property up and running. It monitoring your energy usage and pursue recognition!	-	
	ACME BANK We'll get into the details later. For now, overall, what main purpose does your property serve? Office Learn more about primary functions/property types.	Tip To set up a property, you'll need information such as gross floor area and operating hours.	
	Your Property's Buildings How many physical buildings do you consider part of your property? None: My property is part of a building One: My property is a single building More than One: My property includes multiple buildings How many?	Tip Not sure what kind of property you are? Because we focus on whole building benchmarking, you want to select the property type that best reflects the activity in the majority of your building. Don't wory if you have other tenants with different business types, just select the main activity.	
1	Your Property's Construction Status Is your property already built or are you entering this property as a construction project that has net yet been completed? Existing: My property is built, occupied and/or being used. I will be using Portfolio Manager to track energy/water consumption and, perhaps, pursue recognition. Design Project: My property is in the conceptual design phase (pre-construction); I will be using Portfolio Manager to evaluate the energy efficiency of the design project.		
	Get Started! Cancel		

3) Click "Get Started!" to continue to the "Set Up a Property: Basic Property Information" page or "Edit Property" page

About Your Pro	operty	🕖 Тір
Name:	•	The name you choose for you does not have to be unique. B make it easier for you to work
Country:	* Select	properties in your portfolio if you use the same (or similar) nam
Street Address:		
City/Municipality:	•	
State/Province:	Select 💌	
Postal Code:	•	
Year Built:	•	
Gross Floor Area:	Gross Floor Area is the total floor area, expressed in square feet from the principal exterior surfaces of the building(s) and not inclu	
Occupancy:	Select 🔊 %	
Do any of these		i Tip
My property's ene	gy consumption includes	Answering these simple quest help us guide you in entering y
parking areas		property correctly.

a. Enter the property's basic information

- 4) Click "Continue" to proceed to the "Set up a Property: How is it used?" page
 - a. Specify the property's use details, then click "Add Property"
- 5) After the property has been added, go to the Details tab

3 Efficiency Lane, Arlington, VA 22209 Map It rtfolio Manager Property ID: 3185157 Primarily: Office							rce EUI (kBi	uu/it-j
ortfolio Manager Pro ear Built: 1990	operty ID: 3	185157 Prima	arily: Office	E.		Curren	t EUI: <u>N</u>	<u> //A</u>
						Baselin	ne EUI: <u>N</u>	<u>I/A</u>
Summary)etails	Meters	Goals	Design				
Construction S		Edit all Details	Nar	<u>View as Diagram</u>	Primary Function	Gross Floor	Action	
Existing					Frinary Function	Area	Action	
Existing Federal Propert Not Set	y:		►	Parking Lot	Parking	Area	I want to	•
Federal Proper Not Set Find A Service	-	Provider	•	Parking Lot 1st Floor Office		Area 90000 ft²		
Federal Proper Not Set	& Product				Parking		I want to	(married)
Federal Propert Not Set Find A Service (SPP):	& Product and Produc	ts	- 	1st Floor Office	Parking Office	90000 ft²	I want to	

- 6) In the Basic Information box, click "Edit"
 - a. Scroll down to the "Additional Information" box, and be sure to indicate that this is a federal property
 - b. A dropdown menu will appear allowing you to select the country whose government occupies the property
 - c. After selecting the country, a dropdown menu will appear allowing users to select the agency that occupies the property
 - d. Further text boxes will appear allowing users to specify the sub-department and federal campus

Is this property's data	۲	No		
maintained by a Service and Product Provider?	0	Yes		
Is this a Federal Property	O	No		
(owned by any country?)	۲	Yes		
		Country:	* United States	•
			Federal	* Environmental Protection
			Agency/Department:	Federal Region/Sub- Department:
			HQ	
			ň.	

B. Add the Building's CTS ID to the Property Record

Portfolio Manager allows you to use any of three different methods to enter data. Each can be used to input the CTS ID, known in the tool as the "U.S. Agency Designated Covered Facility ID" for your building for release to the Federal Energy Management Program's Compliance Tracking System (CTS).

1) Manual Entry

In order to enter the CTS ID manually for your building in Portfolio Manager, you'll start by clicking to open up a property from the starting My Portfolio tab.

AyPortfolio	Sharing	Planning	Reporting	Recognition		
	Properties (4		Notification	s (1) TEST - Sharing request sent to Joh	- 0	ncel
Source EUI	l Trend (kBtu/ft	;²)	My Properti Filter by: FEI	es (41)		Add a Property
400		Å	Crea Name	ate Group Manage Groups	Action	
200			EXAMPL	E TRAINING TEST	I want to]
0 2003 2	2005 2007 2009	2011 2013	FEDERA	L TEST OFFICE	I want to]

Once you've opened the property, you'll click on the Details tab, scroll down to the Unique Identifiers (IDs) box on the left, and click Edit.

Summary	Details	Meters	Goa	ls Design				
Basic Info	_	Edit all Details		This Property's		Se Add Another Type of Use		ÞbA 💌
Construction Existing	Status:			Name		Primary Function	Gross Floor Area	Action
Federal Prop Yes - United S				TEST OFFIC	Ξ	Office	129000 ft²	I want to
Federal Agen Environmental				TEST Vacant	Space	Office	12000 ft ²	I want to
Find A Servic				Parking Use		Parking		I want to
(SPP): ACME Service Editing basic address, etc.		ots so includes name				nultiple uses and buildings to this 1 your information.	s property, you can	use this <u>spreadsheet template</u>
		Edit			the Gross Floo e Gross Floor A	rison r Area for your uses does Area for your property.	If your prope	ping Your Property rmation up to date arty has more than one important that you keep
Unique Id Portfolio Man 3468745		(IDs)		Use Total GF	A 🦲 Property	GFA 🗮 🛓	property and ENERGY S	ails updated at both the I building levels so that your FAR score and other metrics Learn more about keeping to date.
Standard IDs						141,000		
in data reques three Custon	t from Portfoli	ormation to other n create up to ou can cross	F	OK 50K		150k 200i		

On the resulting Property Identifiers screen, scroll down to the Standard IDs box and select "U.S. Agency Designated Covered Facility ID" from the dropdown menu, and enter the appropriate value for your building. You will also need to add in your building's U.S. Federal Real Property Unique Identifier here, which is an individual building-level ID. Once you've added all of the necessary IDs, click Save.

Your Portfolio Manager Property ID was assigned when your property was entered into Portfolio Your Portfolio Manager Property ID is set by EPA and unique to your property. Use this number when communicating with EPA about any questions you have about this property. Use this number when communicating with EPA about any questions you have about this property. Use this number when communicating with EPA about any questions you have about this property. Custom IDs Your can add up to three custom IDs as long as they have different names. Only people who have access to this property data will be able to see these custom IDs. The Custom ID are for you to use as you wish. In addition to your Portfolio Manager Property ID, you may have internal tracking numbers you use in your organization flag use mut to cross-reference to facilitate reporting. Only people who have access to this property data will be able to see these custom IDs. Name: ID:	Manager and identifies your property to EPA. Portfolio Manager Property ID: 3468745	Portfolio	Manager Property ID			🕖 Your Portfolio Manager Property ID
Custom IDS You can add up to three custom IDs as long as they have different names. Only people who have access to this properly data will be able to see these custom IDs. Custom ID 1: Name: Inique Building Identifier ID 2: Name: ID: Name: ID: Name: ID: Name: ID: Name: ID: Name: ID: Standard ID 3: ID: Name: ID: Standard IDs are those typically used as part of a data request by an organization (such as a State of local government, or LEED). If you know your property is going to be part of a data request, you may need to select and specify the relevant ID here. Standard ID(s): ID: Standard ID(s): U.S. Federal Real Property Unique Identifier: E4684384368 Remove ID U.S. Agency Designated Covered Facility ID ID: Mathematic Mathematic Standard ID(s): Remove ID Northead and reget ID U.S. Agency Designated Covered Facility ID ID: State Arabit Remove ID No.S. Federal Real Property Unique Identifier: State Arabit Remove ID U.S. Agency Designated Covered Facility ID ID:<	Custom IDS You can add up to three custom IDs as long as they have different names. Only people who have access to this property data will be able to see these custom IDs. Custom ID 1: Name: Unique Building Identifier Discourd D 2: Name: ID Custom ID 3: ID Name: ID Custom ID 3: ID Name: ID Standard IDS are those bypically used as part of a data request by an organization (such as a State ropeerty Unique JD action Property Unique JD act	Manager and	d identifies your property to EPA.	operty was	entered into Portfolio	unique to your property. Use this number when communicating with EPA about any questions you have
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	Save Cancel State of Washington Unique Facilities Identifier (UFI)	Standard ID: or local gove may need to Standard ID U.S. Fed	s are those typically used as part of a data request ernment, or LEED). If you know your property is goin select and specify the relevant ID here. (s): leral Real Property Unique Identifier:	4384368	rt of a data request, you X Remove ID 4687438 Image: Comparison of the second	BOMA BESt Building ID Boston Energy Reporting ID Chicago Energy Benchmarking ID CoStar Property ID *District of Columbia Building Unique ID *District of Columbia Real Property Unique ID Green Globes CIEB Project ID Green Globes NC Project ID LEED Canada Project ID LEED US Project ID Minneapolis Building ID NYC Borough, Block and Lot (BBL) NYC Building ID Phidelphia Building ID REALPac Energy Benchmarking Program Building Nar

2) Upload Templates

You can add CTS IDs to your properties in bulk via spreadsheet upload template. To start, scroll down to the bottom of the opening My Portfolio tab and click "upload and/or update multiple properties."

Properties (41)	Notifications (1)	
Add a Property	Design TEST - Sharing request sent to Joh	n Doe Cancel
Source EUI Trend (kBtu/ft²)	My Properties (41)	Add a Prope
600	Filter by: View All Properties (41) Create Group Manage Groups	Search
400	Name 🗢	Action
200	A Broadway School	I want to
	AAA TEST School	I want to
2003 2005 2007 2009 2011 2013	BUILDING TEST	I want to
otal GHG Emissions Trend (Metric	B_0001_TEST	I want to
ons CO2e)	<u>B_0008</u>	I want to
Å	Broadway School	I want to
10k	Center for Ants	I want to
5k	Chengdu	I want to
Ok	DESIGN TRAINING TEST	I want to
0K 2003 2005 2007 2009 2011 2013	Demo Office Building	I want to
	* [
	Page 1 of 5	View 1 - 10 of 41
		👱 Download Entire Port

On the next screen, select Create an Upload Template.

	following spreadsheets spreadsheet, completin			Depending on the size of while.	You can create new properties in Portfolio Manager, by filling in <u>this spreadsheet</u> , which requires basis preadth information
	File Name Edit_Basic_Info.xlsx	Type of Upload Edit basic prope rty info		Status	which requires basic property information, including name, address, gross floor area, Property IDs, and Federal Information (if applicable).
Whe Proc Typ	essing time could be aff be of Upload: oad Template:	ad your completed ter	Browse	rd or custom), enter it here.	Edit and Manage Information Once your properties are in Portfolio Manager, you can edit and update them using a template customized based on what you want to do. For example, you may want to upload energy bill data for multiple properties or update use information. Create an Upload Template

You'll then select Edit Basic Property Information for Existing Properties, select the properties for which you need to input IDs, and click Create & Download Template.

MyPortfolio	Sharing	Planning	Reporting	Recognition	
If you want to ad	d property use or		for multiple propert		in Excel spreadsheet. First tell us some information about o use. Then simply fill it in with your information and upload it!
		ı are Performi	ng		Varning - Don't Change Columns!
Add I	-	roperties ers (i.e., meter consi mation for Existing F			In order for your upload to work you cannot Add, Delete or Re-Order columns in the custom spreadsheet. We create the template based on your data, and we need a specific format in order for your upload to succeed.
2 Select	Properties to	Include			Creating New Properties?
Properties	* All Proper		reate & Dow	nload Template	If you need to add new properties, you do not need to create a custom upload template. You can add new properties <u>manually</u> or by using the <u>Add Property Excel</u> <u>Template</u> .

After downloading the document, go to the Property ID's tab to enter the necessary federal IDs for each property along with any other information you'd like to update.

	А	B	Т	U
1	*Property ID	*Property Name	U.S. Federal Real Property Unique Identifier	U.S. Agency Designated Covered Facility ID
2	3025908	Office Building 1	54684684	16546843
3	3083008	Test Office 3	54684685	16546844
4	3135791	Sample Office Building	54684686	16546845
5	3165393	Test 2025 Research	54684687	16546846
6	3185157	Demo Office Building	54684688	16546847
7	3266849	Office / DC Thing	54684689	16546848
8	3372761	EXAMPLE TRAINING TEST	54684690	16546849
9	3398574	Sample School	54684691	16546850
10	3421435	Gunston Hall	54684692	16546851
11	3453226	TEST School 2	54684693	16546852
12	3468745	FEDERAL TEST OFFICE	54684694	F 16546853
	▶ ► Instruc	tions 🖌 Properties 🗶 FederalPropertyInfo 🔒 Property ID's ,	Upload Tips 🦯 🐖	

Once you've completed and saved the Spreadsheet upload template, specify the type of spreadsheet you're uploading on the Upload page, browse for the completed upload template file on your computer or network, and click Upload.

Upload and/or Update Multiple Properties

If you have a lot of properties to create or a lot of bills to add, you may find it easier to upload them using a spreadsheet rather than <u>entering each property</u> <u>manually</u> or adding bills manually. Learn more below.

My Spreadsheet	Uploads			Add Properties
The following spreadsheets your spreadsheet, complet				You can create new propert Manager, by filling in <u>this sp</u> which requires basic proper
File Name	Type of Upload		Status	including name, address, gr Property IDs, and Federal Ir
Edit_Basic_Info.xlsx	rty info	4/3/2014 3:57 PM	Failed View Errors	applicable).
Unload Spreadsh	oots			Edit and Manage
Jpload Spreadsh	eets			Edit and Manage
When you are ready to uple Processing time could be a		mplate (either standa	rd or custom), enter it here.	
Type of Upload:	* Edit Basic Information	on for Existing Proper	ties 💌	Once your properties are in Manager, you can edit and using a template customized
Upload Template:	* ents\Edit Basic Info.		Jpload	you want to do. For example
			pioau	to upload energy bill data fo
	Select "Browse" to loc	ate the file on your	, phoad	properties or update use inf
	Select "Browse" to loc computer and then se	ate the file on your		

3) Portfolio Manager Web Services

The third option is to work with a third party software provider to automatically upload your agency's building data into Portfolio Manager and download metrics. You can find a list of our active providers and their contact information <u>here</u> and access <u>our web services homepage</u> for more information.

C. Export Instructions

- 1. FEMP provides a link to the CTS Data Request Template on its web site at <u>https://www.eisa-432-</u> cts.eere.energy.gov/EISACTS/Login.aspx.
- 2. Click the link, and you will be prompted to log into Portfolio Manager. If you have already logged in, you will be taken to the "Respond to Data Request" page.
- 3. On that page, select the properties with data that you would like to release to CTS, and specify whether you are releasing your own data or releasing data on behalf of someone else. Click "Generate Response Preview."

Portfolio S	haring	Planning	Reporting	Recognition	
"Templates & Report	ts" list on th	e Reporting tab.		FY 2012) v2" for FEMP EISA 432 CTS. T est: EISA 432 CTS (FY	This response has also been added to your
om FEMP EISA				.51. 210/ 402 010 (11	Responding to Data
About this D					You are viewing this screen because
Data Requested E					someone has asked you to provide data to them in the form of a data request. To
Instructions:		CTS user,	respond, simply fill out the information of		
	Manag upload to CTS	is form to release I ger to the EISA 432 led by CTS staff on at any time by exp ger and using the C	MP is you wish to include (some decisions ma		
	from w Previe "Send geners	which properties y ithin the "Your Re w" button. On the Response" from th ated. All properties ' nated Covered Far	se r een		
	Note: I		may be released to	o CTS (records with "Not Available" in	

responsibilities for responding to data requests to other people. If you are responding on behalf of someone else,
requests to other people. If you are responding on behalf of someone else,
please select their name from your
Contacts Book so that they will be
attributed to the response.
Previewing Reports
Making selections here will include
specific properties and timeframes in
your response. You may preview your response before you send it. However,
Portfolio Manager will need to prepare
the preview in order for you to view it.
Large responses may take more time to prepare. Your response preview will be
available from the "Templates & Report
section on the Reporting tab when it is ready.
ling ready.
d

4. You will be taken back to the Reporting tab while the response preview generates. Once the preview has generated, you can preview the response in Portfolio Manager or Excel, generate an updated response to account for newly entered data, send or delete the response, or edit the properties you included in your response in step 3.



- 5. Once you are satisfied with the data you are releasing, click "Send Response" on the dropdown menu.
- 6. On the next page, choose which of your Portfolio Manager contacts should receive a confirmation email when the data is released, the format of the data to be included in the email attachment, and e-sign your data response by entering your Portfolio Manager account credentials. Click "Send Data".
 - a. Data is uploaded by CTS staff on a monthly basis. However, you may upload benchmarking data to CTS at any time by exporting your data as an Excel spreadsheet from Portfolio Manager and using the CTS "Import Data" function (when logged into CTS).

Portfolio Manager®				Welcome EISA432CTS: <u>Account Settings</u> <u>Contacts</u> <u>Help</u> <u>Sign Out</u>	
MyPortfolio	Sharing	Planning	Reporting	Recognition	
					EISA 432 CTS (Department of Energy) y). You will receive a confirmation email with a receipt and a copy of the
Select con	tacts from your con	a down your Control (d a confirmati		About Releasing Your Data Once you have chosen to release your data, there is no way to retract it. Please preview your report to identify any data issues before sending to avoid incomplete or incorrect data being released.
⊚ Exo ⊖ XML	el		ata in for the	email attachm	
	ISA 432 CTS with ername:	m releasing data a Department of End *		s, or on behalf of so	

D. Data Mapping from Portfolio Manager to CTS

The following fields will be exported from Portfolio Manager for import into CTS. Most of these fields map directly to a corresponding field in CTS. Special notes of explanation are indicated in parenthesis. The CTS import will validate by data type and required fields (indicated by "*"). Differences in magnitude of units between the two systems are highlighted in **Red**.

- 1) Property Information Data
 - a. *Property ID (Portfolio Manager internal identifier <u>Note</u>: This will be used as the CTS Building Identifier starting 10-1-2014)
 - b. ***Property Name** ("*Building Name*" in CTS)
 - c. ***Federal Agency/Department** (top tier "*Agency*" name in CTS)
 - d. Federal Region/Sub-Department ("Sub-Agency" in CTS)
 - e. ***US Agency Designated Covered Facility ID** (Note: This field must contain the CTS *"Agency Designated Covered Facility ID*" in order to match the building in Portfolio Manager with the corresponding CTS Covered Facility record)
 - *US Federal Real Property Unique Identifier (building/ asset level identifier used in CTS as the unique building identifier. <u>Note</u>: This identifier will not be required after 9-30-2014)
 - g. *Primary Property Type Self Selected ("Building Type" in CTS)
 - h. *City ("Building City" in CTS)
 - i. *State/Province ("Building State" in CTS)
 - j. *Postal Code ("Building Zip Code" in CTS)
 - k. U.S. Federal Campus (Portfolio Manager designation for future CTS use)
 - 1. **Number of Buildings** (related to Portfolio Manager Campus functionality future CTS use)
 - m. Occupancy (Portfolio Manager designation not currently used in CTS)
 - n. Property Notes (optional "Comments" in CTS)
- 2) <u>Benchmarking Data</u> The following data fields will be generated (aggregated or calculated) by the Portfolio Manager export report function:
 - a. ***Year Ending** (maps to the Benchmarking "*Fiscal Year*" in CTS)
 - b. ***Property Floor Area (Building(s)) (ft²) (Sq. Ft.** in PM, Thou. Sq. Ft. in CTS)
 - c. *Site Energy Use (kBtu in PM, Million Btu in CTS)
 - d. ***Source Energy Use** (**kBtu** in PM, Million Btu in CTS)
 - e. *Site EUI (kBtu/Sq. Ft.)
 - f. *Source EUI (kBtu/Sq. Ft.)
 - g. *Weather Normalized Site EUI (kBtu/Sq. Ft.)
 - h. *Weather Normalized Source EUI (kBtu/Sq. Ft.)
 - i. ENERGY STAR Score (1-100) (optional "Energy Star Rating" in CTS)
 - j. * The total of all of the following fields from Portfolio Manager yields the "Annual Water Consumption" in CTS (kGal)

- i. Municipally Supplied Potable Water: Combined Indoor/Outdoor or Other Use (kgal)
- ii. Municipally Supplied Potable Water Indoor Use (kgal)
- iii. Municipally Supplied Potable Water Outdoor Use (kgal)
- iv. Other Water Sources: Combined Indoor/Outdoor or Other Use (kgal)
- v. Other water Sources Indoor Use (kgal)
- vi. Other Water Sources Outdoor Use (kgal)
- k. Total GHG Emissions (MtCO2e) (optional in CTS)
- 1. **Guiding Principles % Complete (Yes or Not Applicable)** (maps to the "*Guiding Principles Completed*" Y/N field in CTS; 100% = "Y") (optional in CTS)
- 3) <u>Submitter Data</u> The following data is included in the Portfolio Manager export for the individual releasing the data to CTS:
 - a. On Behalf Of
 - b. Organization
 - c. Phone
 - d. Email
 - e. Generation Date
 - f. Release Date

Appendix C: EISA Compliance Tracking System Data Dictionary for Benchmarked Buildings

Field Name	Description/ Data Type	Description	Available to Public
Agency		·	•
Agency Acronym	Text	Top-tier Agency Acronym	Yes
Agency Name	Text	The Top-tier department/agency to which the covered facility is associated.	Yes
Sub-Agency Acroynm	Text	Sub-Agency Acroynm	Conditional
Sub-Agency Name	Text	The sub-agency/bureau/region to which the covered facility is associated.	Conditional
Facility	-		
Facility Name	Text: (75 char max)	The name of the Covered Facility	Yes
Agency Designated Covered Facility ID	Text: (25 char max)	Agency assigned internal covered facility identifier. This identifier must be unique across the top-tier agency.	Yes
Facility City	Text: (50 char max)	City where Covered Facility is located.	Yes
Facility State	Text: (50 char max)	State where Covered Facility is located.	Yes
Facility Zip Code	Text: (50 char max)	The Zip Code where the Covered Facility is located.	Yes
Facility Energy Manager Unique ID	Text: (50 char max)	The Agency designated unique identifier for the energy manager assigned to the covered facility. (May be used to indicate FEM assignment compliance to statute)	No
Facility Energy Manager	Text	The user within CTS who is designated as the FEM for this facility.	No
Facility Energy Manager Designated	Selection: (Y/N)	Does this facility have an facility energy manager assigned?	Yes
Facility Comment (for public)	Text: (1000 char max)	Facility level comment	Yes
Benchmarked Building			
Building Name	Text (100 char max)	Benchmarked Building name	Yes
Real Property Unique Identifier	Text: (25 char max)	Unique identifier for the benchmarked building. This identifier must be unique across the top-tier agency.	No
Building City	Text (50 char max)	Building City	Yes
Building State	Text (50 char max)	Building State	Yes
Building Zip Code	Text (50 char max)	Building Zip Code	Yes

	Description/		Available
Field Name	Data Type	Description	to Public
Public Disclosure	Selection: (Y/N)	Is this benchmarked building data exempt from public	No
Exemption		disclosure?	
Reason for Public	Text: (250 char	Describe reason for the public disclosure exemption	No
Disclosure	max)	indicated above	
Exemption			
Benchmarking Activit	У	•	•
Benchmarking	Date: (4 digit	The Fiscal Year of the benchmarking activity.	Yes
Activity Year	year)		
Benchmarking	Selection: (list)	Benchmarking system used:	Yes
System		1. ENERGY STAR Portfolio Manager	
-		2. Labs 21 Benchmarking Tool	
		3. Data Center Energy Profiler (DC Pro)	
		4. Other Approved System	
Total Floor Space	Numeric:	Building Area benchmarked	Yes
Benchmarked	(Thou. Sq Ft)		
Real Property	Text: (25 char	Unique identifier for the benchmarked building. (asset	No
Unique Identifier	max)	level real property profile identifier) This identifier	
onique identifier		must be unique across the top-tier agency.	
Building Type	Selection: (list)	Current Energy Star Portfolio Manager building types	Yes
		categories that can receive an ENERGY STAR Score are	
		listed below:	
		Banking/financial services	
		• Education	
		Entertainment/public assembly	
		Food sales and service	
		Healthcare	
		Lodging/residential	
		Manufacturing/industrial	
		Mixed use	
		• Office	
		• Parking	
		Public services	
		Religious worship	
		• Retail	
		Technology/science	
		• Services	
		• Utility	
		Warehouse/storage	
		A complete list of Energy Star property types is located	
		here: http://www.energystar.gov/buildings/tools-	
		and-resources/list-portfolio-manager-property-types	
Annual Site Energy	Numeric:	Annual Energy Use in terms of site-delivered Btu	Yes
Use	(Million Btu)		
Annual Source	Numeric:	Annual Energy Use in terms of source Btu	Yes
Energy Use	(Million Btu)		
LICIBY USE		I	

Field Name	Description/ Data Type	Description	Available to Public
Annual Site Energy Intensity	Numeric: (kBtu/Sq Ft)	Annual site-delivered energy intensity	Yes
Annual Source Energy Intensity	Numeric: (kBtu /Sq Ft)	Annual source energy intensity	Yes
Annual Weather- normalized Site Energy Intensity	Numeric: (kBtu /Sq Ft)	Annual weather-normalized site-delivered energy intensity	Yes
Annual Weather- normalized Source Energy Intensity	Numeric: (kBtu /Sq Ft)	Annual weather-normalized source energy intensity	Yes
Energy Star Rating	Integer: (1-100)	Energy Star Rating (if applicable building type)	Yes
Annual Water Consumption	Numeric: (Thou. Gallons)	Annual Potable Water Use	If metered
Annual Water Intensity	Numeric: (Gallons/Sq Ft)	Annual Water Intensity	If metered
Green House Gas Emissions	Numeric: (Metric Tonnes of CO2e)	Equivalent CO2 emissions of source energy usage	No
Guiding Principles Complete	Selection: (Y/N)	Completion of Sustainability Guiding Principles	No
Benchmarking Comment (for public)	Text: (2000 char max)	Note for annual benchmarking activity	Yes

Appendix D: Format for Requesting Exemption from Public Disclosure for National Security Purposes

SENSITIVE AND CLASSIFIED INFORMATION MUST NOT BE INCLUDED ON THIS FORM

Date: (mm-dd-yyyy)

- To: Secretary of Energy c/o Federal Energy Management Program, EE-2L 1000 Independence Avenue, SW Washington, DC 20585 EISA-432-Guidance@doe.gov
- From: <u>(Name of Authorizing Official)</u> (Agency Name) (Phone Number) (E-mail Address)
- Subject: Request for Exemption from Public Disclosure of 42 U.S.C. 8253(f) Covered Facility Data for National Security Purposes

The following subject facilities and associated data elements are requested to be exempt from public disclosure for the stated reason pertaining to national security:

(Name(s) of Covered Facility(ies) for which exemption and non-disclosure of the
data elements below is requested)
(Agency-provided identifier(s) in CTS for the Covered Facility(ies) for which
exemption from public disclosure is requested)

Data elements not to be disclosed at the facility level (check all that apply):

- \square City
- □ State
- \Box Zip Code
- Gross Square Footage
- □ Total Annual Energy Use
- □ Total Annual Water Use
- □ Evaluation Findings
- □ Implemented Project Data

□ Metered Building Benchmarking Data (List all applicable buildings associated with the Covered Facility)

Reason for Public Disclosure Exemption:

Other Considerations: (i.e., special requests, rationale for excluding data from agency totals, and citation of agency internal guidance or other authorities supporting the decision.)