



OMB Control Number: 1905-0186
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Section 1: Identification and Scope

Introduction.

The U.S. Energy Information Administration (EIA) is conducting this Data Center Field Study to enhance the completeness and accuracy of energy consumption data within the nation's data center sector. Your participation is crucial to this effort.

- **“Data Center Facility” Definition:** A data center facility is defined as a dedicated building or a delineated portion thereof, primarily purposed for the housing of computer servers and associated information technology equipment. This encompasses the entirety of the IT infrastructure, inclusive of requisite power, cooling, and network support systems.
- **Collaboration Encouraged:** Organizations are encouraged to consult with relevant internal personnel possessing the requisite information to ensure the accuracy and completeness of submitted data. The survey link may be disseminated internally to facilitate this collaborative effort.
- **Energy Consumption in Calendar Year 2025:** Toward the end of the survey, specific energy consumption for 2025 will be requested. We recognize that gathering this information might necessitate reference to internal records or consultation with your financial and/or operational personnel. Your best estimates are acceptable.
- **Confidentiality:** All responses will be treated with strict confidentiality and reported exclusively in aggregate form, precluding the identification of individual respondents or facilities.
- **Time Commitment:** The survey is structured to require approximately 15 minutes to

complete.

- **Saving Your Progress:** To accommodate interruptions, respondents may utilize the provided survey link to resume their session. Your progress will be saved automatically.
- **Navigation:** Please utilize the 'Back' and 'Next' buttons within the survey rather than your browser's back button to avoid session interruptions.

Thank you for participating in this voluntary data collection.

Please click the 'Next' button below to begin.

1.1b. Let's start with a few questions to better understand the facility that you are reporting about. We understand that you may be familiar with different data center facilities; however, we'd like you to focus your responses on just one data center facility with which you are familiar.

1.2-1.7. Please use the fields below to enter the company name, address, and data center facility information. Ensure the information accurately identifies the specific data center facility for which you intend to report.

Ensure all fields are accurate. Providing correct information is vital for the survey.

Company Name

Data Center Facility Name

Street Address

City

State

ZIP

Confirm 1.2-1.7. Please confirm the following information is correct.

`#{q://QID60/ChoiceTextEntryValue/1}`

`#{q://QID60/ChoiceTextEntryValue/2}`

`#{q://QID60/ChoiceTextEntryValue/3}`

`#{q://QID60/ChoiceTextEntryValue/4}`, `#{q://QID60/`

`ChoiceTextEntryValue/5}` `#{q://QID60/ChoiceTextEntryValue/6}`

If you need to make any changes, please click the "Back" button. Otherwise, click "Next."

1.9. What is your job function or title, as it pertains to this data center facility?

Please provide the title that **best** describes your primary responsibilities at `#{e://Field/Data%20Center%20Facility}`. This may include corporate-level titles if your role involves direct oversight or management of this facility.

Section 2: Basic Characteristics

2.8. Which of the following business models apply to the data center operations you are reporting for at $\{e://Field/Data\%20Center\%20Facility\}$? Please select all that apply.

Select all options that accurately describe the significant functions or business models of this data center facility. You will be asked to identify the primary one in the next question.

- Enterprise / Private Cloud Data Center (e.g., private cloud infrastructure, internal needs of single organization)
- Public Cloud Data Center (e.g., hosting computing services; IaaS, PaaS, or SaaS providers)
- Hyperscale Data Center (e.g. large-scale facilities designed for massive computation and storage, search engine support of a global internet company)
- High-Performance Computing (HPC) / AI Data Center (e.g. AI training, intensive machine learning workloads)
- Edge Computing / Local Access Data Center (e.g., content delivery networks, IoT processing)
- Cryptocurrency Mining Data Center
- Government Data Center
- Other (please specify)

2.9. Of the business models you selected in the previous question, which single option **best** describes the data center operations you are reporting for at $\{e://Field/Data\%20Center\%20Facility\}$?

Please select the single option that **best** describes the predominant business model of this data center.

- » Enterprise / Private Cloud Data Center (e.g., private cloud infrastructure, internal needs of single organization)
- » Public Cloud Data Center (e.g., hosting computing services; IaaS, PaaS, or SaaS providers)
- » Hyperscale Data Center (e.g. large-scale facilities designed for massive computation and storage, search engine support of a global internet company)
- » High-Performance Computing (HPC) / AI Data Center (e.g. AI training, intensive machine learning workloads)
- » Edge Computing / Local Access Data Center (e.g., content delivery networks, IoT processing)
- » Cryptocurrency Mining Data Center
- » Government Data Center
- » Other (please specify)

Section 4: IT Infrastructure

4.1. The next questions are about IT infrastructure at the data center facility.

Does this data center facility formally track or calculate Power Usage Effectiveness (PUE)?

PUE is calculated by dividing the total facility energy by the IT equipment energy. Select 'Yes' if your facility regularly measures or estimates its PUE, even if it's only used for internal purposes or based on internal calculations.

- Yes
- No
- Don't know

4.2. This question is about how many servers are used in $\{\text{e://Field/Data%20Center%20Facility}\}$. Would you prefer to report data based on the number of **IT server racks** or the number of individual **servers**?

Please select the unit of measure you are most comfortable providing. If you report by racks, we will ask for both the approximate number of racks and the size of the racks. If you report by servers, we will ask for the approximate number of servers.

- Individual servers
- Server racks
- Don't Know
- I prefer not to say

4.3. How many $\{\text{q://qid33/choicegroup/selectedchoices}\}$ are there in $\{\text{e://Field/Data%20Center%20Facility}\}$?

- servers $\{\text{q://QID33/ChoiceGroup/SelectedChoices}\}$
- Don't Know
- I prefer not to say

4.4. Which category best describes the number of $\{\text{q://qid33/choicegroup/selectedchoices}\}$ in the data center facility?

- 1 to 10
- 11 to 50
- 51 to 250
- 351 to 1,000
- 1,001 to 5,000
- 5,001 to 20,000
- 20,001 to 100,000
- 100,001 or more
- Don't know
- I prefer not to say

4.4 (blank 4.2-4.3). Which category best describes the number of servers in the data center facility?

- 1 to 10
- 11 to 50
- 51 to 250
- 351 to 1,000
- 1,001 to 5,000
- 5,001 to 20,000
- 20,001 to 100,000
- 100,001 or more
- Don't know
- I prefer not to say

4.5. On average, how many individual servers are typically housed in one IT rack?

If rack sizes or server counts per rack vary significantly within your facility, please provide the most common or average values.

- servers servers
- Don't Know
- I prefer not to say

Section 5: Physical Infrastructure

5.1. The next questions are about physical infrastructure at the data center facility.

Which of the following types of cooling systems are used at this data center facility? Please select all that apply.

Consider systems directly responsible for dissipating heat from IT equipment or the data center environment. This excludes general building HVAC for typical office spaces and other non-data center related activities.

- Air-cooled systems (e.g., direct expansion (DX) units, Computer Room Air Conditioners (CRACs/CRAHs) with outdoor air-cooled condensers)
- Evaporative cooling systems (e.g., cooling towers, evaporative coolers)
- Chilled water systems with remote dry coolers (air-cooled)
- District chilled water from an off-site central plant or utility
- Liquid immersion cooling / direct-to-chip liquid cooling
- Direct free cooling / Economizer modes (using outside air)
- On-site absorption chillers (using heat for cooling)
- Other (please specify)
- Don't know

5.2. Which of the following core infrastructure characteristics are present at the data center facility?

Please select all that apply. Focus on the core infrastructure supporting the IT equipment. Do not include features exclusively for typical office spaces within the facility.

- Raised floor or hot/cold aisle containment (e.g., raised floors for cable management and cooling distribution)
- Waste heat recovery system
- Redundant cooling systems (N+1 or greater)
- Uninterruptible Power Supply (UPS) for IT equipment
- Multiple utility power feeds and/or geographically diverse substations
- On-site fuel storage for backup generators (more than 24 hours of supply) (e.g., diesel fuel tanks)
- Advanced environmental monitoring (e.g., temperature, humidity, airflow sensors at rack level)
- Data halls / IT rooms with separate humidity control
- Building Energy Management System (BEMS) or Data Center Infrastructure Management (DCIM) software
- Other (please specify)
- Don't know
- Refuse

Your feedback is valuable and helps us improve future data collection efforts.

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Question 7.8

7.8. Thank you for helping us learn about data center facilities. If you have any additional information about this data center facility or general thoughts about the survey, please enter them here.