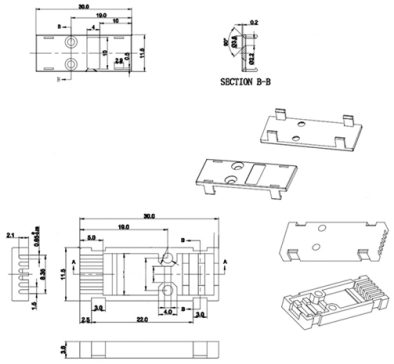
Data Center Energy Products Department



Overview

The energy secretary, Chris Wright, this week instructed grid operators to require data centers to use their backup power supplies if they need to ease strain on electrical system.

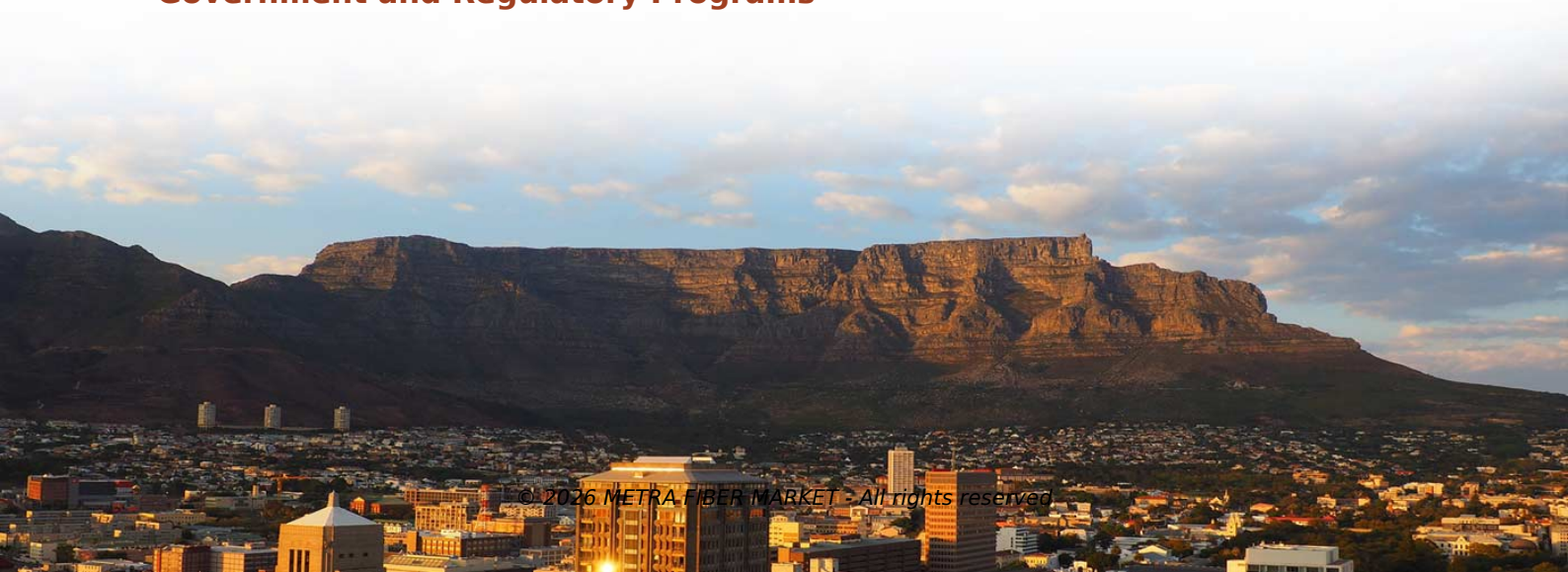
Key Takeaways

A Data Center Energy Products Department focuses on improving energy efficiency, sustainability, and power management in data centers through technology solutions, regulatory compliance, and operational best practices.

Role and Responsibilities

A Data Center Energy Products Department typically oversees the design, implementation, and management of energy-efficient solutions for data centers. This includes monitoring energy consumption, optimizing cooling systems, integrating renewable energy sources, and ensuring compliance with energy regulations and sustainability standards. The department may also provide guidance on energy-efficient IT equipment, power distribution, and infrastructure upgrades to reduce operational costs and carbon footprint.

Government and Regulatory Programs



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In the European Union, data centers are subject to the Energy Efficiency Directive, which mandates monitoring and reporting of energy performance. The European Commission maintains a database to track energy consumption and environmental impact, and it is developing a Data Centre Energy Efficiency Package that includes a rating scheme and minimum performance standards. In the United States, the Department of Energy (DOE) supports energy efficiency through the Federal Energy Management Program (FEMP), offering resources, best practices, and technical assistance to improve data center energy performance.

Technology and Solutions

The department often collaborates with technology providers to implement sustainable power solutions, such as renewable energy integration, battery energy storage systems (BESS), and microgrids to create localized energy ecosystems. It also evaluates cooling strategies, including chilled air or water systems, to reduce energy consumption while maintaining optimal operating conditions for servers and IT equipment. Advanced analytics and monitoring tools are used to track energy usage and identify efficiency opportunities.

Strategic Goals

Key objectives include: Reducing energy consumption and operational costsAchieving carbon neutrality and sustainability targetsEnhancing reliability and resilience of power supplySupporting regulatory compliance and reporting obligationsPromoting innovation in energy-efficient technologies and infrastructure Resources and SupportDepartments may provide training, webinars, and case studies to share best practices, as well as decision-making tools to guide energy efficiency projects. They also facilitate partnerships with organizations committed to reducing energy intensity and improving sustainability in data center operations.

In summary, a Data Center Energy Products Department serves as a central hub for energy management, sustainability initiatives, and technology deployment, ensuring that data centers operate efficiently, meet regulatory requirements, and contribute to broader environmental goals.

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Article Content

Energy Dept. Orders Data Centers to Tap Backup Power

The energy secretary, Chris Wright, this week instructed grid operators to require data centers to use their backup power supplies if they need to ease strain on electrical system.

Energy performance of data centres

A European database, prepared by the Commission, collects and publishes data, which is relevant for the energy performance and water footprint of data centres

Energy Efficiency in Data Centers | Department of Energy

Data centers offer a tremendous opportunity for energy and cost savings. FEMP helps agencies construct and maintain energy-efficient data centers by providing

Data Center Energy Solutions

At Hitachi Energy, our goal is to provide smart, safe and sustainable services and power solutions throughout the complete life cycle of the data center.

Data Centers and Their Energy Consumption: Frequently Asked

For use within the federal government, the U.S. Department of Energy has published guidance on how to optimize energy use in its data centers. Another nonbinding program, Energy

Data Center Power Solutions I Siemens Energy

Reliable and sustainable power generation solutions for efficient data centers, including gas turbines, green hydrogen, transmission, and batteries.

Data Center Power Demand | MIT Energy Initiative

A single hyperscale data center can consume as much electricity as 50,000 homes. To address this complex challenge, the MIT Energy Initiative brings together MIT faculty members and scientists to

Data Centers and Their Energy Consumption: Frequently Asked

Currently, there are no legally binding energy standards that apply explicitly to operation of data centers in the private sector. For use within the federal government, the U.S. Department of

Data Center Energy Practitioner (DCEP) Training | Center of Expertise ...

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Data centers are energy-intensive, and opportunities exist to reduce energy use, but significant knowledge, training, and skills are required to perform accurate data center energy assessments.

Home | Center of Expertise for Data Center Efficiency

We offer a variety of training opportunities to harness knowledge of energy efficiency opportunities in your data center - including live webinars, on-demand courses, and certification programs.

Bloom Energy (BE) Faces Fresh AI Data Center Power Competition

Bloom Energy (NYSE:BE) faces fresh competition in AI data center power as Chevron and Microsoft roll out natural gas turbine projects. A new U.S. Department of Energy program is financing next ...

Energy Department Seeks Proposals for AI Data Centers, Energy

WASHINGTON — The U.S. Department of Energy (DOE) today issued a Request for Application (RFA) and is seeking proposals from U.S. companies to build and power AI data centers

Alternative Fuels and Feedstocks Office

The U.S. Department of Energy''s Alternative Fuels and Feedstocks Office (AFFO) enables research, development, and demonstration (RD&D) to accelerate technology commercialization for the

DOE: Data centers consumed 4.4% of US power in 2023, could hit

After years of efficiency improvements and the shift to cloud keeping data center power usage relatively stable, the industry is set to see its consumption soar. A Congressionally-mandated

Navitas to Showcase Breakthrough GaN and SiC Based Solutions for

TORRANCE, CA – May 18th, 2026 — Navitas Semiconductor (Nasdaq: NVTS), a leader in GaNFast™ gallium nitride (GaN) and GeneSiC™ silicon carbide (SiC) power semiconductors, will showcase its

US data centers'' energy use amid the artificial intelligence boom | Pew ...

Data centers accounted for 4% of total U.S. electricity use in 2024. Their energy demand is expected to more than double by 2030.

How Do All-Electric Cars Work?

How Do All-Electric Cars Work? All-electric vehicles, also referred to as battery electric vehicles (BEVs), have an electric motor instead of an internal combustion engine. The vehicle uses a large traction

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PJM Emergency Order: Heat Wave Threatens Record Demand (2026 ...

The Department of Energy issued two emergency orders allowing PJM to curtail data centers and waive power plant pollution limits as a severe heat wave pushes electricity demand

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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