



# 25 kWh data center energy storage

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The U.S. Environmental Protection Agency (EPA) provides data center storage ...

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The Federal Energy Management Program (FEMP) provides acquisition guidance for data center storage, a product category covered by ENERGY STAR efficiency requirements. Federal laws and requirements mandate that agencies purchase ENERGY STAR-qualified products or FEMP-designated products in all product categories covered by these programs and in any acquisition actions that are not specifically exempted by law.

FEMP's acquisition guidance and associated ENERGY STAR efficiency requirements for data center storage are technology neutral, meaning that one technology is not favored over another. However, ENERGY STAR's requirements are limited to products that satisfy definition of qualifying products in the ENERGY STAR data center storage specifications.

All other data storage center types are excluded, including but not limited to personal/portable data storage products; computer servers; blade storage products; direct attached storage products; storage products capable of object based storage; storage devices in the following categories of the taxonomy: near-online, removable media library, virtual media library, and products that are covered under other ENERGY STAR product specifications.

This acquisition guidance was updated in December 2022.

One watt-hour of energy savings at the storage level results in roughly 1.9 watt-hours of facility-level energy savings. These additional savings stem from reducing energy waste in the power infrastructure (e.g., power distribution unit, uninterruptible power supply) and reducing 24/7 energy needed to cool the waste heat produced by data storage.



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The U.S. Environmental Protection Agency (EPA) provides data center storage efficiency levels and product specification information on its ENERGY STAR website. Manufacturers meeting these requirements are allowed to display the ENERGY STAR label on complying models. Get a list of ENERGY STAR certified data center storage.

FEMP has calculated that the required ENERGY STAR-qualified data center storage saves money if priced no more than \$110 (in 2021 dollars) above the less efficient model. The best available model saves up to \$133. Table 1 compares three types of product purchases and calculates the lifetime cost savings of purchasing efficient models. Federal purchasers can assume products that meet ENERGY STAR efficiency requirements are life cycle cost-effective.

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