

## Kongres Container

# North American Government on Base Station Energy Management System



## Overview

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How does the federal government support energy storage technology?

The federal government has driven the technical development of energy storage technologies and incentivized developers through financial support of early demonstration projects, improving market rules, and a series of grant programs.

How can the federal government support long-duration energy storage?

The federal government could target research and funding to support longer-duration energy storage development, demonstration, and deployment. New utility-scale battery reuse and recycling policies could help enable a system that allows for long life, high performance, and the recovery of products and materials.

How can local governments regulate energy storage systems?

Internet guidance. Local governments could also post storage inspection and site-safety requirements on easy-to-find websites. The city of Palo Alto, California, posted a permitting and inspection process document for energy storage systems.

How do energy management systems work?

Coordination of multiple grid energy storage systems that vary in size and technology while interfacing with markets, utilities, and customers (see Figure 1) Therefore, energy management systems (EMSs) are often used to monitor and optimally control each energy storage system, as well as to interoperate multiple energy storage systems.

Should government support longer-duration energy storage development and demonstration?

Targeted federal financial support for longer-duration energy storage development and demonstration should be considered since longer-duration

storage may be important in a future electricity system powered by wind and solar generation. The key services storage offers in a high-renewables world are energy and reliability.

Why are large-scale energy storage deployments increasing?

Over the last decade, the number of large-scale energy storage deployments has been increasing dramatically. This growth has been driven by improvements in the cost and performance of energy storage technologies, the need to accommodate renewable energy generation, as well as incentives and government mandates.

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