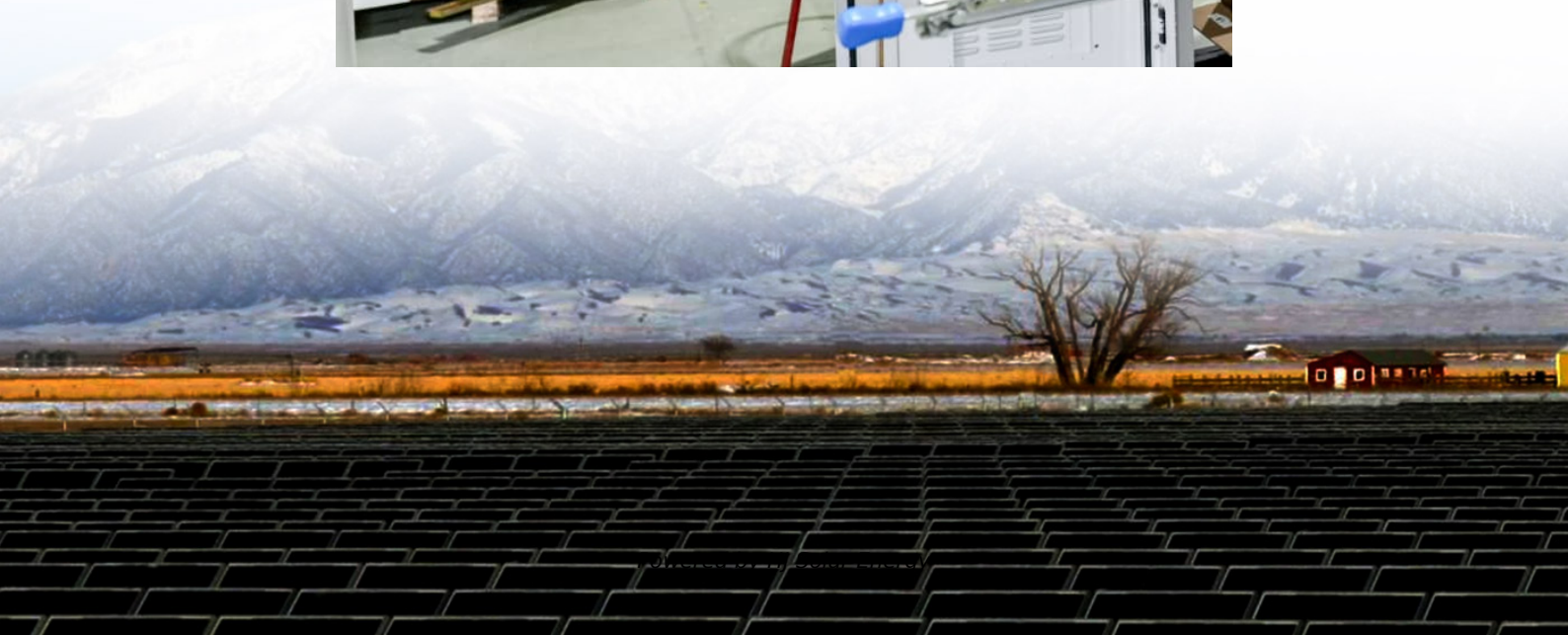


# **Policies for energy storage asset attributes**





## Overview

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The regulatory framework governing the role of energy storage as a transmission grid asset was developed in the years following the enactment of the Energy Policy Act of 2005, which laid the legal .

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on,or generating asset,or as a dynamic load. Therefore,storage assets are usually classified as a function of the service they provide. For storage assets providing environmental or public health considerations. This section will describe a few of the many energy storage performance attributes that.

Falling costs of storage technologies and improved performance and safety characteristics, particularly for lithium-ion battery energy storage, have made energy storage a compelling and increasingly cost-effective alternative to conventional flexibility options such as retrofitting thermal power.

PNNL works as a trusted broker in assessing barriers and opportunities for energy storage assets to bolster the electric grid. Our expertise includes evaluating life-cycle costs and performance, optimal sizing and siting of energy storage systems, and modeling operational strategies and.

States seek to maximize the benefits of ES while reducing uncertainty and risk. Respondents identified a number of priority applications: Enabling higher levels of solar PV interconnected with the grid, and the use of solar coupled with storage for interconnection upgrade mitigation. Procurement. Is energy storage a distinct asset class within the electric grid system?

The authors support defining energy storage as a distinct asset class within the electric grid system, supported with effective regulatory and financial policies for development and deployment within a storage-based smart grid system in which storage is placed in a central role.

Should energy storage be a central asset class?



Therefore, energy storage as a distinct asset class in a central role will increase the value of storage investments while enhancing the operation of the smart grid. To further this goal, storage requires policy support.

Are energy storage systems a poorly defined asset class?

Next, we identify the limits to energy storage systems as a poorly defined asset class within the electric grid value chain, and demonstrate how creating a new asset class for storage will both enhance the value of storage and also provide significant benefits to the operation of the smart grid.

What is an energy storage asset class?

DNV KEMA,<sup>3</sup> an energy and environmental consulting firm, provides an excellent starting point by proposing the following definition for an energy storage asset class : 1. Has the ability to store (receive and supply back) a definable amount of energy (joules or gigajoules) to an electrical network or electrical grid 2.

Should energy storage be a separate asset?

Regulatory, economic and other challenges that inhibit further development and deployment of energy storage in the power grid can best be surmounted through the classification of storage as a distinct asset. The marketplace would be sufficiently receptive and responsive for storage to realize its most efficient value.

What are the benefits of a new energy storage asset class?

Another key benefit of the new storage asset class is that more revenue leads to more investment. Because energy storage is no longer restricted to supplementing other asset classes, it can derive revenue from the services it provides to each.



## Policies for energy storage asset attributes

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Grid-scale energy storage has been growing in the power sector for over a decade, spurred by variable wholesale energy prices, technology ...

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Disseminate comprehensive information on storage technology status, experience, and realizable contributions to grid resilience, emergency response, renewable ...



### Energy Storage Evaluation Tools: How do you value energy ...

Acknowledgment Special thanks to Dr. Imre Gyuk, the program manager for the U.S. Department of Energy Office of Electricity Energy Storage program, for guidance and supporting the energy ...



### Storage as Transmission

Project Background: The unique characteristics of energy storage allow these assets to provide many potential services to grid operators. During normal operation, storage ...



### Foundations for OT Cybersecurity: Asset Inventory Guidance for ...

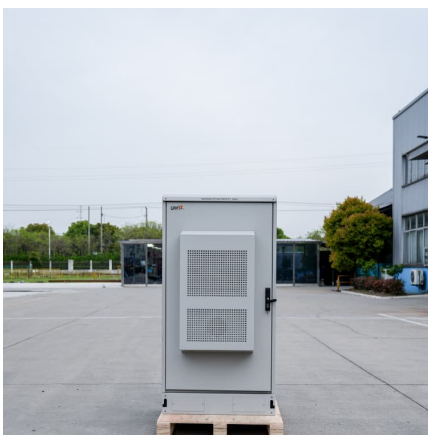
taxonomy. This process includes defining scope and objectives for the inventory, identifying assets, collecting attributes, creating a taxonomy, managing data, and implementing ...





### Energy Storage Policy

Utility ownership of energy storage. Largely determined by competitive status of state. Where utilities are allowed to own storage, utility resource planning becomes a priority. Some states ...



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The authors support defining energy storage as a distinct asset class within the electric grid system, supported with effective regulatory and financial policies for development ...

### Energy Policy

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The EAC commends DOE for pursuing departmental coordination through the Energy Storage Grand Challenge. The ESGC is an important initiative and it comes at an important time. ...



### **National Hydropower Association 2021 Pumped Storage Report**

Executive Summary This is the third Pumped Storage Report White Paper prepared by the National Hydropower Association's Pumped Storage Development Council (Council). The first ...

### **AssetAttribute , Field Service Developer Guide , Salesforce ...**

Stores asset attributes to track and analyze asset conditions to improve their uptime. This object is available in API version 57.0 and later.





## Energy Storage Policy

In addition to the state survey, we also surveyed six energy storage development companies and one industry consultant, to compare their policy priorities with those of the state energy agencies.

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Energy storage assets fall under various policies and regulatory frameworks that influence their development, deployment, and operation. 1. Federal incentives, 2. State-specific ...



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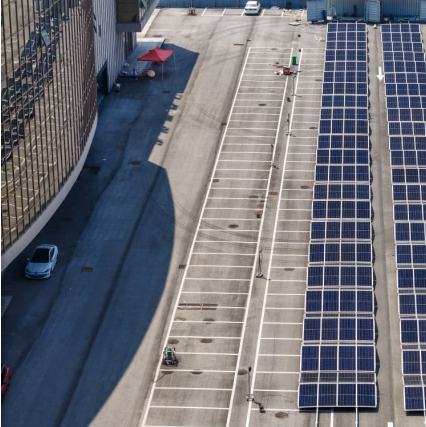
### **ENERGY ATTRIBUTE CERTIFICATES**

Requiring EAC registries to add new attributes, including sub-hourly (or hourly) timestamps, grid carbon intensity snapshots, tags for all CFE and storage, and tags for verified social and ...



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The authors support defining energy storage as a distinct asset class within the electric grid system, supported with effective regulatory and financial policies for ...



### **Compensation Mechanisms for Long**

ed electrical load from transportation and other sectors. However, the current regulatory, policy, and market-driven compensation and business models are not well suited for incentivizing ...

### **Energy storage asset policy**

However, studies have shown that using a single energy storage asset for more than one function, sometimes across multiple markets, amplifies grid benefits, increases storage ...



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