

Environmental protection requirements for energy storage projects





Overview

Some of the key requirements of NFPA 855 include: Energy storage systems must be installed in accordance with the manufacturer's instructions and applicable codes and standards. Systems must be designed to prevent thermal runaway and electrical shock. How do I develop a battery energy storage project?

The development of battery energy storage projects requires navigating a complex web of state and local permitting processes. Understanding these requirements alongside the battery energy storage system design process is essential for successful project execution.

What is a battery energy storage system (BESS)?

As the demand for renewable energy sources continues to rise, battery energy storage systems (BESS) have emerged as a critical component in the transition to a sustainable energy future. Westwood is at the forefront of environmental permitting in states across the nation, helping clients navigate the complexities of the permitting process.

How do state and local permitting processes affect battery energy storage projects?

State and local permitting are crucial steps in the development of battery energy storage projects. Each state has its own regulatory framework, and local jurisdictions may impose additional requirements. California, Minnesota, North Dakota, and Wisconsin are a few examples of states that have robust statewide permitting processes.

What is EPA's Bess guidance?

EPA has developed comprehensive guidance to help communities safely plan for installation and operation of BESS facilities as well as recommendations for incident response. This webpage includes information from first responder and industry guidance as well as background information on battery energy storage systems and resources.



Will Bess be included in the environmental permitting regulations?

Most recently, the UK Battery Strategy (published November 2023) stated that the government had committed to consulting on including BESS in the Environmental Permitting Regulations “at the earliest opportunity”. While the specifics are yet to be finalised, there are strong indications that BESS will soon be included under the EPR regime.

What is a battery energy storage system?

Battery energy storage systems (BESS) stabilize the electrical grid, ensuring a steady flow of power to homes and businesses regardless of fluctuations from varied energy sources or other disruptions. However, fires at some BESS installations have caused concern in communities considering BESS as a method to support their grids.



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[The Ultimate Guide to Energy Storage Regulations](#)

Stay ahead of the curve with our comprehensive guide to energy storage regulations, covering the latest codes, standards, and best practices.

Energy Storage: Considerations for Government Partners on ...

Flexibility in zoning, environmental review, and sound level considerations are necessary for the effective integration of energy storage systems in various locations and applications.



Environment , Science News

Environment See how aerosols loft through Earth's sky Aerosols, small particles in the atmosphere like salt and dust, may offset a third of human-caused climate warming, ...

[Battery Energy Storage: Blueprint for Safety](#)

Industry is Advancing Safety Standards Across the United States The battery energy storage industry advocates for the adoption and enforcement of the latest and most rigorous



safety ...



[What is Environmental Education? , US EPA](#)

What is Environmental Education? Environmental education is a process that allows individuals to explore environmental issues, engage in problem solving, and take action ...

Carbon Capture and Storage

Score well at merit review - These plans are scored according to criteria like quality (thoroughness, measurable outcomes), integration into the project (not being siloed), ...



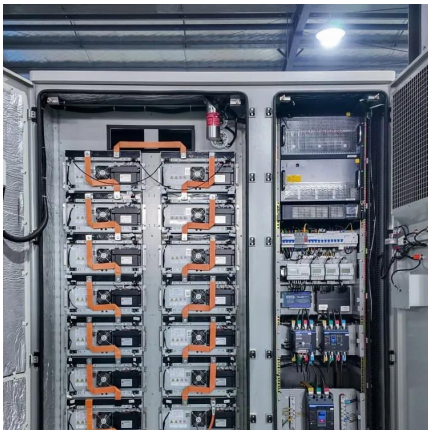
[How to Navigate State and Local Permitting for ...](#)

Navigating state and local permitting for battery energy storage projects is a complex but essential process. By understanding the ...



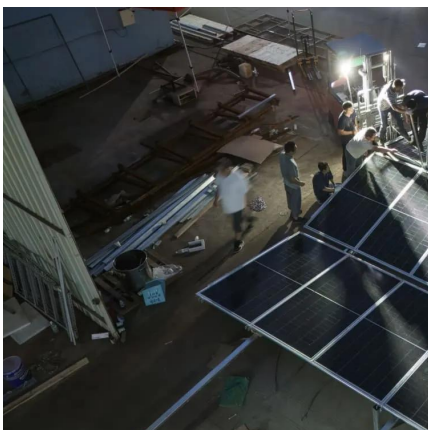
Solar

The Small Renewable Energy Projects (Solar) Permit by Rule (Solar PBR) regulation, 9VAC15-60, establishes criteria, procedures and permit requirements as required under the Code of ...



[NYCEDC Advances Green Economy Action Plan with ...](#)

The facility will serve as a large-scale battery energy storage system capable of charging from, and discharging into, the New York power ...



How do new environmental permitting regulations affect the ...

New environmental permitting regulations are poised to significantly impact the deployment of battery energy storage systems (BESS) by introducing new compliance ...



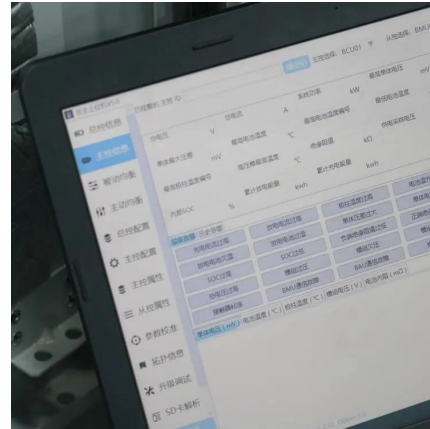
[DOE Reduces Regulatory Hurdles For Energy Storage, ...](#)

DOE is simplifying the environmental review process for certain energy storage systems such as battery systems, transmission line upgrades, and solar photovoltaic systems.



Energy Infrastructure Siting and Permitting Commission ...

Under the Healey-Driscoll Administration's proposal, energy infrastructure projects (both clean energy and fossil fuel-based projects) that submit applications to the EFSB would ...

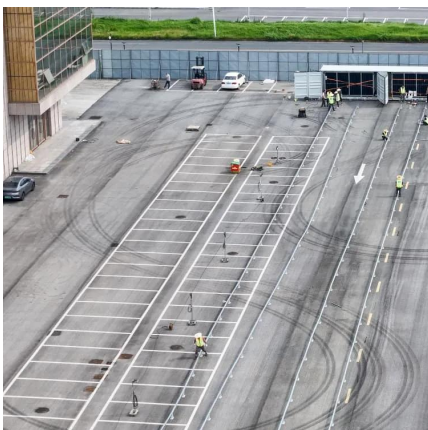


[New Regulations for Battery Energy Storage Solutions](#)

This change could mean that operators will be required to obtain environmental permits for BESS sites, ensuring these installations meet certain environmental management ...

[Environmental Information for Massachusetts , US EPA](#)

Collection of environmental info links for MassachusettsAir in Massachusetts Real-time information about today's air quality forecast in Massachusetts's cities and counties on ...



Battery Storage Industry Unveils National Blueprint for ...

To that end, the energy storage industry has developed a three-part strategy that includes policy recommendations and safety requirements ...



80MW/160MWh! Tender for ESS of Ziyang Virtual Power Plant ...

Polaris Energy Storage Network learned that on April 27, the tender announcement for the first batch of energy storage equipment for the Green Demonstration ...



Addressing Permitting Challenges for Battery Energy ...

Battery energy storage systems (BESS) enhance solar and wind energy projects, but the permitting process is arduous due to the technology's ...



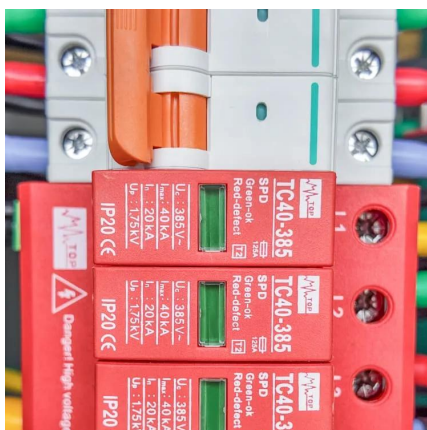
Considerations for Government Partners on Energy Storage ...

Ensuring safety and compliance with relevant codes and standards, such as the International Fire Code, NFPA 1 Fire Code, NFPA 855, UL 9540, and UL 9540A, is crucial in the manufacturing, ...



Battery Energy Storage Systems (BESS) Provisions

Both battery energy storage system projects will be required to meet all municipal planning approvals and by-laws (zoning, noise, fire, building code, etc.). Public ...





[U.S. Environmental Protection Agency . US EPA](https://www.epa.gov/)

Website of the U.S. Environmental Protection Agency (EPA). EPA's mission is to protect human health and the environment.

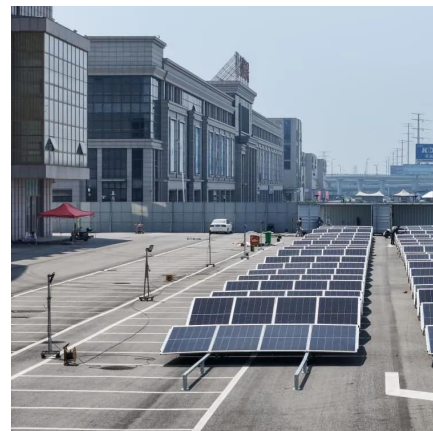


How to Navigate State and Local Permitting for Battery Energy Storage

Navigating state and local permitting for battery energy storage projects is a complex but essential process. By understanding the requirements and leveraging our ...

EPA Administrator Lee Zeldin Announces EPA's "Powering the ...

WASHINGTON - On February 4, 2025, U.S. Environmental Protection Agency (EPA) Administrator Lee Zeldin announced the agency's Powering the Great American Comeback ...



What approvals are required for energy storage projects?

Environmental permitting serves as a critical component in the review process for energy storage projects. A multitude of environmental considerations must be taken into ...



Environmental Justice Strategic Plan

The goals, objectives, priority actions, and metrics identified in this EJ Strategic Plan are rooted in the agency's historic commitment to environmental justice, as demonstrated by over 32 years ...



Siting and Safety Best Practices for Battery Energy Storage ...

The following document summarizes safety and siting recommendations for large battery energy storage systems (BESS), defined as 600 kWh and higher, as provided by the New York State ...



Permitting Utility-Scale Battery Energy Storage Projects: Lessons ...

The increasing mandates and incentives for the rapid deployment of energy storage are resulting in a boom in the deployment of utility-scale battery energy storage ...



What approvals are required for energy storage projects?

Environmental permitting serves as a critical component in the review process for energy storage projects. A multitude of environmental ...



Battery Energy Storage Systems: Main Considerations for Safe

This webpage includes information from first responder and industry guidance as well as background information on battery energy storage systems (challenges & fires), BESS ...



Legal Issues on the Construction of Energy Storage Projects for ...

With energy storage playing a fundamental role in China's high-quality development of green energy, this book relies on scholarly research to delve into the subject of energy storage ...

EPA in Florida , US EPA

Portal for news and information about EPA's efforts in Florida and Hot Topics, Environmental Information, Events, Public Notices and Press Releases, Recent News, Federal ...



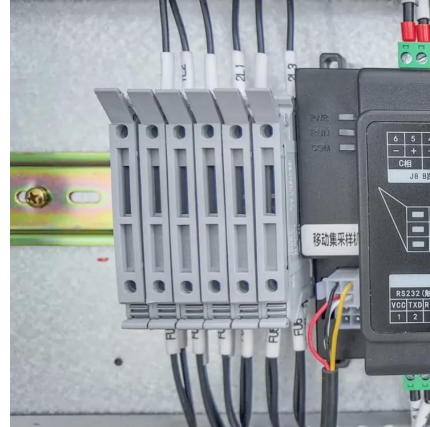
Energy Storage

Renewable Energy Certainty Act The Renewable Energy Certainty Act (Act) codified as Public Utilities Article (PUA) §7-219., Annotated Code of Maryland makes changes to various ...



Federal Environmental Requirements for Construction

This guide provides information on federal environmental requirements for construction projects. It is written primarily for owners of construction projects and for general contractors who ...



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