



# What are the appearance requirements for energy storage equipment





## Overview

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Outdoor ESS systems require approval and work permit from the local authority having jurisdiction (LAHJ). Mobile systems shall require a product specific approval from the LAHJ. This approval document is called a Certificate of Approval (COA). To obtain a COA, the applicant (i.e. a battery unit manufacturer or their authorized agent) must.

An increased number of electrical energy storage systems (EESS) utilizing stationary storage batteries are appearing on the market to help meet the energy needs of society—most notably storage of power generated from renewable resources or the electric grid for use during power outages or peak.

The International Codes (I-Codes), including the IFC, are national standards on which New York's Uniform Code are based. Throughout 2023, 2024, and into 2025, the Code Council is updating New York's Uniform Code to align with the current I-Codes, updated in 2024 as part of a triennial update.

This document offers a curated overview of the relevant codes and standards (C+S) governing the safe deployment of utility-scale battery energy storage systems in the United States. It emphasizes the key technical frameworks that shape project design, permitting, and operation, including safety.

place for storage. The DG Hub focuses on facilitating the development of clear solar and storage permitting processes, sharing best practices through workshops and summits, and providing technical assistance tools such as the NY Solar Map & Portal and the mbudsman program. Sustainable CUNY is an.

One of three key components of that initiative involves codes, standards and regulations (CSR) impacting the timely deployment of safe energy storage systems (ESS). A CSR working group has been monitoring the development of standards



and model codes and providing input as appropriate to those.



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### [Energy Storage System \(ESS\) Equipment Approval and ...](#)

Certificate of Approval (COA): If the application meets all applicable NYC requirements, a Citywide COA will be issued authorizing the use of the product throughout ...

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### [New York Battery Energy Storage System Guidebook for ...](#)

Guidance for AHJs: Generally, AHJs should expect to see UL 9540A reports for any project that exceeds 600 kWh capacity. It is important to understand that the UL 9540A test is not a ...

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### [New Residential Energy Storage Code Requirements](#)

Find out about options for residential energy storage system siting, size limits, fire detection options, and vehicle impact protections.

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### [U.S. Codes and Standards for Battery Energy Storage Systems](#)

This document offers a curated overview of the relevant codes and standards (C+S) governing the safe deployment of utility-scale battery energy storage systems in the United States.



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### [New Residential Energy Storage Code Requirements](#)

Siting and Size Limits  
Fire Detection  
Vehicle Impact Protection  
Join The Storage Fire Detection Working Group  
You have four options for siting ESS in a residential setting: an enclosed utility closet, basement, storage or utility space within a dwelling unit with finished or noncombustible walls or ceilings; inside a garage or accessory structure; on the exterior wall of the home; and on ground mounts. Inside dwelling units, ESS shall...  
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(4) For a site installation, the site plan must show access to energy storage equipment and site buildings for firefighting in accordance with the Fire Code and for maintenance.

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## Energy Storage System

Construction Document Approval: All ESS applications must be filed as a 'GC' work type with Electric Energy Storage Equipment (EESSE) subcategory, and be reviewed ...



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### April 2025 Edition

Establishes standards, requirements and procedures for the design, installation, operation and maintenance of outdoor stationary energy storage systems that use various types of battery ...

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### Design and Installation of Electrical Energy Storage Systems

Currently, these systems are not required by codes covering residential construction, but when used, the EES itself and its installation must be safe and remain safe.

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### ESS Compliance Guide 6-21-16 naI

Until existing model codes and standards are updated or new ones developed and then adopted, one seeking to deploy energy storage technologies or needing to verify an installation's safety ...

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## storage design?

Every design must account for various parameters such as desired storage capacity, discharge rates, and efficiency levels. Capacity refers to the amount of energy that ...

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