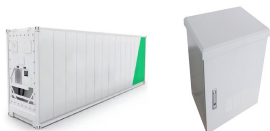
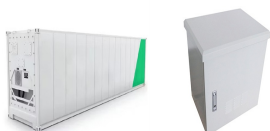


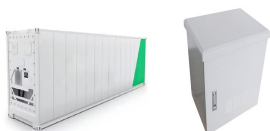
REQUIREMENTS FOR THE ENERGY STORAGE INDUSTRY



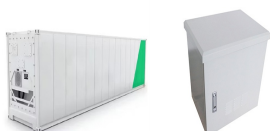
Does industry need energy storage standards? As cited in the DOE OE ES Program Plan, ???Industry requires specifications of standards for characterizing the performance of energy storage under grid conditions and for modeling behavior. Discussions with industry professionals indicate a significant need for standards ????? [1, p. 30].



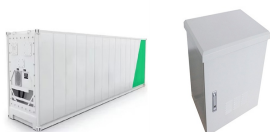
What does the European Commission say about energy storage? The Commission adopted in March 2023 a list of recommendations to ensure greater deployment of energy storage, accompanied by a staff working document, providing an outlook of the EU???s current regulatory, market, and financing framework for storage and identifies barriers, opportunities and best practices for its development and deployment.



Should energy storage safety test information be disseminated? Another long-term benefit of disseminating safety test information could be baselining minimum safety metrics related to gas evolution and related risk limits for creation of a pass/fail criteria for energy storage safety testing and certification processes, including UL 9540A.



How much energy storage capacity does the EU need? These studies point to more than 200 GW and 600 GW of energy storage capacity by 2030 and 2050 respectively (from roughly 60 GW in 2022, mainly in the form of pumped hydro storage). The EU needs a strong, sustainable, and resilient industrial value chain for energy-storage technologies.



What is energy storage R&D? Under this strategic driver, a portion of DOE-funded energy storage research and development (R&D) is directed to actively work with industry to fill energy storage Codes & Standards (C&S) gaps. A key aspect of developing energy storage C&S is access to leading battery scientists and their R&D insights.

REQUIREMENTS FOR THE ENERGY STORAGE INDUSTRY



Is energy storage a future power grid? For the past decade, industry, utilities, regulators, and the U.S. Department of Energy (DOE) have viewed energy storage as an important element of future power grids, and that as technology matures and costs decline, adoption will increase.



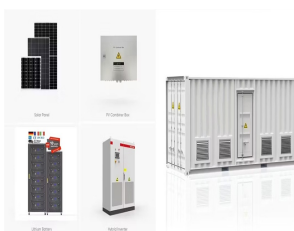
The German Energy Agency (Deutsche Energie-Agentur GmbH ??? "dena") (50% of dena's shares are held by the German state, the rest by private entities) is researching storage use in its study "Optimised use of battery ???



706.1 - "This article applies to all energy storage systems having a capacity greater than 3.6 MJ (1 kWh) that may be stand-alone or interactive with other electric power production sources. These systems are primarily intended ???



In Michigan and Indiana, the energy storage industry helped advance new laws requiring compliance with NFPA 855. In Maryland and New York, the energy storage industry supported new regulations that enforced the ???



Notice 2023-38, posted last week (12 May), spells out the degree to which a battery energy storage system (BESS) being deployed needs to be manufactured in the US to qualify for the 10% uplift to the new standalone ???

REQUIREMENTS FOR THE ENERGY STORAGE INDUSTRY



This document provides an overview of current codes and standards (C+S) applicable to U.S. installations of utility-scale battery energy storage systems. This overview highlights the most impactful documents and is not intended to ???



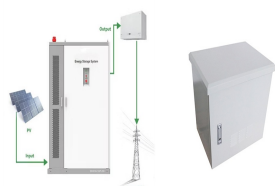
Discover the ultimate Guide to Energy Storage Battery Certifications, covering essential safety standards, global compliance requirements, and the key certifications needed for energy storage systems in ???



Concerning utility-scale energy storage, there is a pressing need for its deployment. Additionally, the crucial role played by grid-side energy storage installations, dominated by standalone and shared energy storage, is ???



The Clean Energy Council's Battery Assurance Program includes a list of lithium-based batteries (energy storage devices) that meet industry best practice requirements. The list provides consumers with independent information on ???



In the realm of the U.S. energy storage market, the spotlight is on large-sized energy storage, renowned for its impressive economic viability and diverse profitability models, offering substantial potential. There are two ???

REQUIREMENTS FOR THE ENERGY STORAGE INDUSTRY



Market Impact: Required for energy storage systems entering the U.S. and Canada. UL 9540A (Energy Storage Fire Propagation Test) Purpose: Evaluates thermal runaway risks and fire propagation behavior in large-scale ???



A more rapid adoption of wall-mounted home energy storage would make size and thus energy density a prime concern, thereby pushing up the market share of NMC batteries. The rapid adoption of home energy storage ???