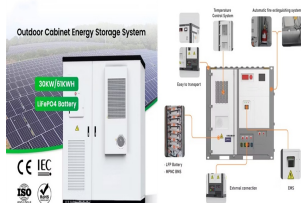
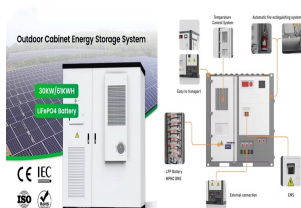


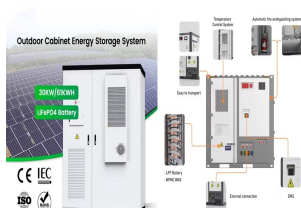
SUMMARY OF U S ENERGY STORAGE POLICIES



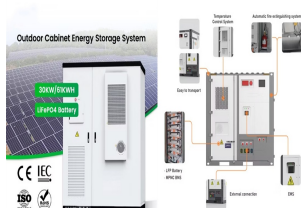
What are the different types of energy storage policy? Approximately 16 states have adopted some form of energy storage policy, which broadly fall into the following categories: procurement targets, regulatory adaption, demonstration programs, financial incentives, and consumer protections. Below we give an overview of each of these energy storage policy categories.



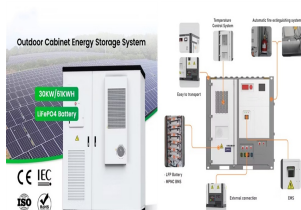
How effective is energy storage policymaking? Yet the most effective approaches to energy storage policymaking are far from clear. This report, published jointly by Sandia National Laboratories and the Clean Energy States Alliance, summarizes findings from a 2022 survey of states leading in decarbonization goals and programs.



What is a storage policy? All of the states with a storage policy in place have a renewable portfolio standard or a nonbinding renewable energy goal. Regulatory changes can broaden competitive access to storage such as by updating resource planning requirements or permitting storage through rate proceedings.

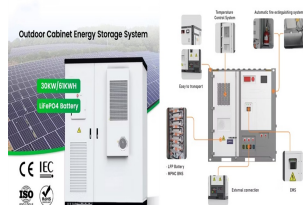


Does state energy storage policy support decarbonization? The report highlights best practices, identifies barriers, and underscores the urgent need to expand state energy storage policymaking to support decarbonization in the US. This report and webinar were developed on behalf of the Energy Storage Technology Advancement Partnership (ESTAP).

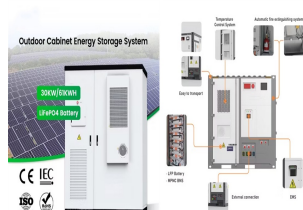


What is the US energy storage monitor? Delivered quarterly, the US Energy Storage Monitor from the American Clean Power Association (ACP) and Wood Mackenzie Power & Renewables provides the clean power industry with exclusive insights through comprehensive research on energy storage markets, deployments, policies, regulations and financing in the United States.

SUMMARY OF U S ENERGY STORAGE POLICIES



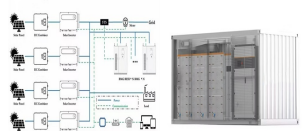
What is the Maryland energy storage program? The new law requires the Maryland Public Service Commission to establish the Maryland Energy Storage Program by July 1, 2025 and provides for incentives for the development of energy storage. Procurement targets are beneficial in that they provide supportive signals for investors and reduce regulatory uncertainty.



storage policy that has emerged out of legislation has positioned California as the most mature energy storage market in the U.S. The key pieces of storage-focused legislation in California include: ??? AB 2514 ("Energy Storage Systems") (2010) o AB 2514 was the first state law in the U.S. establishing a mandate for energy storage systems.



GTM Research/ESA | U.S. Energy Storage Monitor: Q3 2016 8 U.S. Utility Energy Storage Pipeline Grew 57 Percent to 10.7 GW in Q2 2016 Source: GTM Research U.S. Utility-Scale Energy Storage Pipeline by Market Over Time(MW) 10,747 0 2,000 4,000 6,000 8,000 10,000 12,000 Q3 2015 Q4 2015 Q1 2016 Q2 2016 Total Utility-Scale Energy Storage Pipeline (MW)



comprehensive analysis outlining energy storage requirements to meet U.S. policy goals is lacking. Such an analysis should consider the role of energy storage in meeting the country's clean energy goals; its role in enhancing resilience; and should also include energy storage type, function, and duration, as well



Secretary of Energy. U.S. Department of Energy. A MESSAGE FROM THE SECRETARY. 1 . Executive Order 14008, "Tackling the Climate Crisis at Home and Abroad," January 27, 2021. The Biden Administration has laid out a bold agenda to . address the climate crisis and build a clean and equitable energy economy that achieves carbon-pollution-free

SUMMARY OF U S ENERGY STORAGE POLICIES



Comparing energy storage policies and business models of China and foreign countries, and analyzing the energy storage development shortcomings in China, has essential reference significance for developing the energy storage industry in China. etc., in Europe, the United States, and Australia, and analyzes the pre-meter and post-meter



We compile this information into this report, which is intended to provide the most comprehensive, timely analysis of energy storage in the U.S. The U.S. Energy Storage Monitor is offered quarterly in two versions??? the executive summary and the full report.



Each state has also introduced corresponding incentive policies for energy storage. A series of energy storage systems launched by U.S. states in the second quarter of 2019 Policies and measures. 3. China's energy storage policy: a late start but rapid progress. China's energy storage industry started late, but developed rapidly.

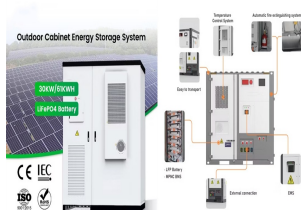


Policy that is specific to the U.S. energy industry over the last several decades has focused on three major goals: 1) ensuring a secure supply of energy; 2) keeping energy costs low; and 3) ???



NREL's Storage Futures Study (SFS) explores how energy storage technology advancement could impact utility-scale storage deployment and distributed storage adoption, as well as future power system infrastructure investment and operations. The first paper in this series, The Four Phases of Storage Deployment: A Framework for the Expanding Role of Storage in the U.S. ???

SUMMARY OF U S ENERGY STORAGE POLICIES



UI-ASSIST US-India Collaborative For Smart Distribution System With Storage Agency and Scheme wise summary 12 Table 2: Key policies and regulations related to / affecting smart Grid 13 Table 4: Key policies/regulations and their highlights 22. Executive Summary 1. 7 Smart Grid and Energy Storage in India 1 Executive Summary India



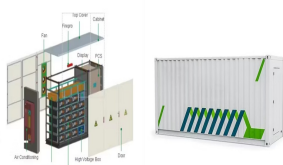
Sani et al. (2020) mentioned that the US had made a lot of efforts in developing energy storage, and the US regulators had invested in creating many energy storage pilots, providing \$100 million



DOE OE GLOBAL ENERGY STORAGE DATABASE Page 2 of 11 STORAGE POLICY ASSESSMENT Arizona is an interesting state to follow given its unique approach toward both the tactical development of an energy storage marketplace and the creation of energy storage policies to drive and define such a marketplace. Among the group of approximately 15 states that

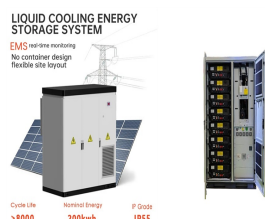


Vital Market Data and Industry Projections. Delivered quarterly, the U.S. Energy Storage Monitor from Wood Mackenzie Power & Renewables and the U.S. Energy Storage Association provides the industry's only comprehensive research on energy storage markets, deployments, policies, regulations and financing in the U.S. These in-depth reports provide energy industry ???



By Carla Frisch, Acting Executive Director and Principal Deputy Director, DOE's Office of Policy. By all accounts, 2021 was a year of momentous firsts and milestones for the U.S. Department of Energy (DOE) where we're working on behalf of Secretary Jennifer M. Granholm and the greater Biden-Harris Administration to tackle the climate crisis; create good ???

SUMMARY OF U S ENERGY STORAGE POLICIES



Energy Storage Systems(ESS) Policies and Guidelines ; Title Date View / Download; Operational Guidelines for Scheme for Viability Gap Funding for development of Battery Energy Storage Systems by Ministry of Power: 15/03/2024: View(399 KB)



This overview provides a summary of the different energy storage applications, focused mainly on the electricity system, in order to illustrate the many services that energy storage can provide. The forms are organised according to the segment of the energy system that benefits from a given service; this categorisation does not necessarily



The report, States Energy Storage Policy: Best Practices for Decarbonization, also summarizes findings from a 2022 survey of energy storage developers; and it provides a "deep dive" into key state energy storage policy priorities and the challenges being encountered by some of the leading states, in the form of a series of case studies. The



the U.S. and Canada, followed by a summary and overview of the existing plans in selected states. 1.1. Major Findings and Observations a. Policy Goals ??? The underlying rationales behind storage procurement are still unclear. Central to analyzing the energy storage policies and projects at the state level



Five-Year Energy Storage Plan: Recommendations for the U.S. Department of Energy Final???April 2021. 2 the transition of technologies from laboratory to market, and developing competitive domestic manufacturing of energy storage technologies at scale. The EAC has ???

SUMMARY OF U S ENERGY STORAGE POLICIES



The U.S. energy storage market set a first-quarter record for capacity installed in Q1 2024, with 1,265 megawatts (MW) deployed across all segments. Vice President of Markets and Policy Analysis at ACP. "A strong start to 2024 sets expectations high for the remainder of the year. A complimentary Executive Summary is available to the



Energy storage system policies: Way forward and opportunities for emerging economies Some of the countries that have been identified to have mature ESS policies are United States of America, United Kingdom, Germany, South Korea, Japan, China and Australia. Summary of the storage technology for renewable and green energy act of 2013, or



Solutions Research & Development. Storage technologies are becoming more efficient and economically viable. One study found that the economic value of energy storage in the U.S. is \$228B over a 10 year period. 27 Lithium-ion batteries are one of the fastest-growing energy storage technologies 30 due to their high energy density, high power, near 100% efficiency, ???



The bidding volume of energy storage systems (including energy storage batteries and battery systems) was 33.8GWh, and the average bid price of two-hour energy storage systems (excluding users) was ?1.33/Wh, which was 14% lower than the average price level of last year and 25% lower than that of January this year.