Comparison of energy storage policies across the country

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.

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.

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.

How much energy storage will Maine have by 2021?
Maine also set its goal in 2021 to achieve 400 MWof installed storage capacity by 2030,with an interim target of 300 MW by 2025. New York originally set a goal to procure 3 GW of energy storage by 2030,but New York Governor Kathy Hochul most recently announced plans to double that goal to reach 6 GW by 2030.

What is Virginia's energy storage goal?
Virginia's target was enacted by law in 2020,which set a 3,100 MWenergy storage goal by 2035. A law enacted in 2021 directed the Illinois Commerce Commission to establish storage procurement targets for all utilities serving more than 200,000 customers to achieve by 2032.

Can storage be a non-wires alternative?
Storage can play a significant role in achieving these goals by serving as a "non-wires alternative" that can provide added reliability and grid services as renewable resources such as wind and solar replace fossil fuel baseload resources.

About this Report This report was prepared by the Applied Economics Clinic on behalf of the Clean Energy States Alliance. The purpose of this report is to help states in conducting benefit ...

State of Energy Policy 2024 is a first-of-its-kind publication from the IEA, which explores how the global energy policy landscape has evolved ...

According to the Energy Storage Association (ESA), public regulatory commissions (and the utilities that they

regulate) across the U.S. generally fall into four categories when assessing ...

Abstract: This paper provides a critical study of current Australian and leading international policies aimed at supporting electrical energy storage for stationary power applications with a ...

This article compares the energy storage policies of China, the United States, and the European Union, exploring how they are shaping the ...

A variety of studies and disparate data sets track state energy storage policies, but these datasets do not cover all BTM-related storage policy. Moreover, these databases do not align policies ...

The deployment of grid-scale electricity storage, including battery energy storage systems (BESS), has accelerated with the transition toward a decarbonised and flexible ...

The governments in the GCC region could collaborate with energy storage developers to introduce favorable regulations and provide capital investments to support the development of ...

Perspective What drives the solar energy transition? The effect of policies, incentives and behavior in a cross-country comparison

In this review, we compare contemporaneous markets, regulations and policies that are shaping the deployment and adoption of advanced energy storage technologies ...

about inputs, assumptions, valuation and methods. In the case of energy storage, a relatively new technology for most state energy This report is intended to help state energy officials and ...

In March 2020, utilities across the United States serviced nearly 2.4 million net metering customers (US Energy Information Administration, 2020), a 13-fold increase from ...

Abstract Aquifer thermal energy storage (ATES) represents a promising solution for heating and cooling, ofering lower greenhouse gas emissions and primary energy consumption than ...

A new report by NREL compares behind-the-meter battery storage across all fifty states. This first-of-its-kind BTM storage policy stack includes 11 parent policy categories, ...

This paper focuses on the role of electricity storage in energy systems with high shares of renewable sources. The study encompasses a model comparison approach where ...

The report then evaluates policies in Maryland and across the country to provide a wide range of options that could be enacted to increase the use of energy storage in Maryland in the short term.

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Following our analysis of energy storage policies in Germany and China, we will analyze and summarize US energy storage policies. Federal government ...

Sandia National Laboratories Energy storage projects and policies across the United States are rapidly evolving and expanding. A publicly accessible central archive is increasingly essential ...

Abstract Today"s energy transition is marked by two key processes: the maturation of the renewable electricity system, and the ...

The Electricity Advisory Committee (EAC) submitted its last five-year energy storage plan in 2016.1 That report summarized a review of the U.S. Department of Energy"s (DOE) energy ...

Major Highlights of Energy Storage Policy Setting up or procuring energy storage through competitive bidding process shall be governed under Section 62 or 63 of the Electricity Act ...

To help identify how current BTM storage state policies vary, this research developed a first-of-its-kind BTM storage policy stack that included 11 parent policies and 31 child policies across the ...

The development of energy storage technology has been classified into electromechanical, mechanical, electromagnetic, thermodynamics, chemical, and hybrid ...

Thus, it is unclear which BTM storage policies are adopted across the country, what should comprise a complete storage policy framework or stack, or how states policies compare with ...

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.

All of these challenges require using some sort of storage device to develop viable power system operation solutions. There are different types of storage systems with ...

The economics of co-deploying energy storage under current market mechanism is inferior, but it can be effectively improved when energy storage participates in ...

Wisconsin: Webinar series included introductory information on energy storage, energy storage economics, programs, policies, and carbon impacts of energy storage, engineering details, ...

A 2025 policy comparison of energy storage development across China, the United States, and the European Union. Includes regulatory trends, market impacts, and commercial storage ...

Comparison of energy storage policies across the country

Around 16 states have implemented some form of policy directed at energy storage, which broadly fall into five categories: procurement targets, regulatory adaptation, ...

The results demonstrate the effectiveness of AI-powered policy analysis in building quantitative and objective policy evaluation systems. In addition, the findings highlight the ability of the ...

A variety of studies and disparate data sets track state energy storage policies, but these datasets do not cover all BTM-related storage policy. Moreover, these databases do ...

The published tables begin with broad cross-cutting policy frameworks, followed by more detailed policies by sector: power, industry, buildings, and transport. Some regional policies have been ...

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