

# **U s photovoltaic energy storage policy**





## Overview

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— Today the Solar Energy Industries Association (SEIA) is unveiling a new policy agenda that details the critical actions that local, state, and federal leaders must take to strengthen the reliability of America’s electric grid with solar and storage technologies. As the Trump Administration.

The US PV market is undergoing major policy changes, with the most significant shift stemming from the anti-dumping and countervailing duties (AD/CVD) on PV modules and cells from Southeast Asia, which are reshaping the non-China PV supply chain. In December 2024, the US Department of Commerce.

As the United States grapples with shifting political winds, developers in the distributed solar and storage market are facing a potential policy storm. The confluence of an uncertain future for the Inflation Reduction Act (IRA), escalating import tariffs and evolving state-level responses threaten.

The Solar Energy Industries Association (SEIA) has unveiled a new policy agenda calling for US grid reforms, domestic supply chain investment, and wider solar and storage deployment to meet surging US power demand. From pv magazine USA SEIA has a new policy agenda centered on electric reliability.

For solar-plus-storage—the pairing of solar photovoltaic (PV) and energy storage technologies—NREL researchers study and quantify the unique economic and grid benefits reaped by distributed and utility-scale systems.



Much of NREL's current energy storage research is informing solar-plus-storage.

A policy explainer that explores how energy storage policies play a pivotal role in facilitating the transition to clean energy, with insights into effective policy frameworks for maximizing the integration of renewable resources into grid operations. A toolkit that offers comprehensive solutions. Is energy storage a viable option for utility-scale solar energy systems?

Energy storage has become an increasingly common component of utility-scale solar energy systems in the United States. Much of NREL's analysis for this market segment focuses on the grid impacts of solar-plus-storage systems, though costs and benefits are also frequently considered.

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.

Does the energy storage strategic plan address new policy actions?

This SRM does not address new policy actions, nor does it specify budgets and resources for future activities. This Energy Storage SRM responds to the Energy Storage Strategic Plan periodic update requirement of the Better Energy Storage Technology (BEST) section of the Energy Policy Act of 2020 (42 U.S.C. § 17232 (b) (5)).

What is Virginia's energy storage goal?

Virginia's target was enacted by law in 2020, which set a 3,100 MW energy 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.

Why is DOE investing in energy storage?

The underlying motivation for DOE's strategic investment in energy storage is to ensure that the American people will have access to energy storage innovations that enable resilient, flexible, affordable, and secure energy systems and supply, for everyone, everywhere.



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### [U.S. Solar Photovoltaic System and Energy Storage Cost](#)

Acknowledgments Because our Q1 2023 benchmarking methods required more direct input from the photovoltaic (PV) and storage industries, this year we engaged with more expert ...

### [Energy Storage Strategy and Roadmap, Department ...](#)

The Department of Energy's (DOE) Energy Storage Strategy and Roadmap (SRM) represents a significantly expanded strategic revision on the original ...



### **pv magazine USA: pv magazine USA, the leading solar and energy storage**

pv magazine USA, the leading solar and energy storage trade media platform. Industry news covering market trends, technological advancements, expert commentary, and ...

### [Solar-Plus-Storage Analysis, Solar Market Research ...](#)

NREL employs a variety of analysis approaches to understand the factors that influence solar-plus-storage deployment and how solar-plus ...



### U.S. Solar Photovoltaic System and Energy Storage Cost ...

T1 - U.S. Solar Photovoltaic System and Energy Storage Cost Benchmarks, With Minimum Sustainable Price Analysis: Q1 2022 N2 - NREL's bottom-up cost models can be used to ...



### [Solar Energy in the United States: 2024 in Review](#)

Solar energy has continued to grow rapidly across the United States in 2024, cementing its position as a crucial component of the nation's ...



### Summer 2023 Solar Industry Update

The United States installed 5.7 GWac (6.1 GWdc) of PV in Q1 2023--and the largest Q1 on record; a significant portion was in Texas, Florida, and California. 34% of U.S. ...





## [Battery Energy Storage Systems Report](#)

This information was prepared as an account of work sponsored by an agency of the U.S. Government. Neither the U.S. Government nor any agency thereof, nor any of their employees, ...



## **State by State: A Roadmap Through the Current US Energy ...**

The installation of utility-scale storage in the United States has primarily been concentrated in California and Texas due to supportive state policies and significant solar and ...

## **Policies and Regulations , US EPA**

This page describes the patchwork of federal, state, and local policies and regulations pertaining to renewable energy systems that impact project development.



## **SEIA unveils policy agenda to expand US solar, storage and grid ...**

The Solar Energy Industries Association (SEIA) has unveiled a new policy agenda calling for US grid reforms, domestic supply chain investment, and wider solar and ...



## States Energy Storage Policy: Best Practices for Decarbonization

This report highlights best practices, identifies barriers, and underscores the urgent need to expand state energy storage policymaking to support decarbonization in the US.



## [U.S. Solar Photovoltaic System and Energy Storage Cost](#)

This work was authored in part by the National Renewable Energy Laboratory, operated by Alliance for Sustainable Energy, LLC, for the U.S. Department of Energy (DOE) under Contract ...

## Solar and Storage Industry Releases Policy Agenda to ...

WASHINGTON, D.C. -- Today the Solar Energy Industries Association (SEIA) is unveiling a new policy agenda that details the critical actions that local, state, and federal ...



## Solar and storage 2025: US policy risks and the new global ...

In 2025, uncertainties surrounding the US energy storage market are increasing because energy storage-related stimulus policies may be canceled or temporarily suspended ...



### [U.S. Solar Photovoltaic System and Energy Storage Cost](#)

U.S. Solar Photovoltaic System and Energy Storage Cost Benchmarks, With Minimum Sustainable Price Analysis: Q1 2022 Vignesh Ramasamy,1 Jarett Zuboy,1 Eric ...



### **Summer 2024 Solar Industry Update**

U.S. PV Deployment EIA reported that the United States installed 15.6 GWac of solar capacity in Q1/Q2 2024 (SEIA reported 21.4 GWdc)--a 55% increase from the record ...

### [Trump's renewable crackdown threatens US battery ...](#)

Industry prospects this year remain bright, with the U.S. Energy Information Administration projecting that 81 percent of U.S. grid installations ...



### [Solar Energy in the United States: 2024 in Review](#)

Solar energy has continued to grow rapidly across the United States in 2024, cementing its position as a crucial component of the nation's renewable energy strategy. ...



## [Utility-Scale Solar, Energy Markets & Policy](#)

Berkeley Lab's "Utility-Scale Solar, 2024 Edition" presents analysis of empirical plant-level data from the U.S. fleet of ground-mounted photovoltaic (PV), ...



## [Solar Photovoltaic System Cost Benchmarks](#)

The U.S. Department of Energy's solar office and its national laboratory partners analyze cost data for U.S. solar photovoltaic systems to develop cost ...

## **Solar, battery storage to lead new U.S. generating capacity ...**

Battery storage. In 2025, capacity growth from battery storage could set a record as we expect 18.2 GW of utility-scale battery storage to be added to the grid. U.S. battery storage already ...



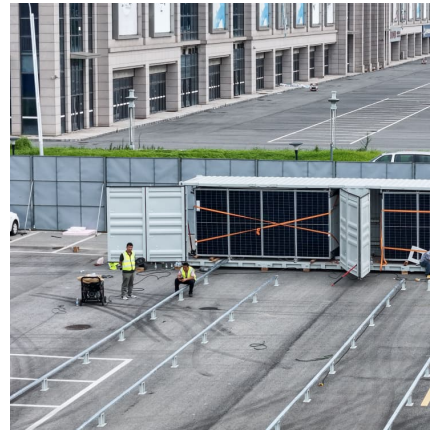
## **Fall 2024 Solar Industry Update**

The United States installed approximately 14.1 GWh (4.3 GWac) of energy storage onto the electric grid in Q1/Q2 2024--its largest first half on record. Though thin-film PV represented ...



## Impact of federal policy on U.S. solar and storage markets

This article examines the key federal policy risks that lie ahead, their potential economic implications, and strategies that industry players can employ to mitigate adverse ...



## [Major trends that shaped U.S. solar energy in 2024](#)

Throughout the year, pv magazine USA provides cutting-edge news and analysis for the U.S. solar industry, from residential solar through ...

## Energy Storage - SEIA

About Energy storage is crucial to the future of American energy security With the support from policymakers, storage can help America keep the lights on. The U.S. energy storage industry ...



## U.S. Solar Photovoltaic System and Energy Storage Cost ...

NREL has been modeling U.S. photovoltaic (PV) system costs since 2009. This report benchmarks costs of U.S. solar PV for residential, commercial, and utility-scale systems, with ...



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