

## Global PV Storage Insights

# Solar plus storage procurement cost comparison 2026



## Overview

---

Are solar-plus-storage projects economically viable?

Technology cost and utility rate structure are key drivers of economic viability of solar and storage systems. This paper explores the economics of solar-plus-storage projects for commercial-scale, behind-the-meter applications. It provides insight into the near-term and future solar-plus-storage market opportunities across the U.S.

Will the solar-plus-storage market grow?

At the lowest technology cost point modeled, solar-plus-storage is economical in 10 of the 17 locations and in all of the 16 building types modeled. This suggests that the solar-plus-storage market will grow significantly if solar and storage costs continue to decline as expected in the future.

Will increasing utility rates increase solar-plus-storage savings?

This suggests that, similar to falling technology costs, increasing utility rates will result in a larger number of solar-plus-storage systems, larger system sizes, and increased savings from each system. On average, savings were highest for projects that combined both solar and storage (see Fig. 13 ).

Where are solar-plus-storage systems most cost-effective?

The highest potential for savings was found in California, New York, New Mexico, and Alaska. Across all scenarios modeled, solar-plus-storage systems were most often cost-effective in San Francisco, Anaheim, and Los Angeles. These locations have both good solar resource and relatively high demand rates.

Are lithium-ion batteries a viable alternative to a solar-plus-storage system?

Nottrott et al. optimized an idealized solar-plus-storage system to achieve a preset amount of load peak shaving and found that the system's NPV decreased significantly with forecasting data ( Nottrott et al., 2013 ). Basing

their model on 2011, they predicted lithium-ion batteries would be financially viable in the range of \$400-500/kWh.

Can distributed solar PV paired with battery energy storage be used in commercial buildings?

This work focuses on the emerging market for distributed solar PV paired with battery energy storage (“solar-plus-storage”) in commercial buildings across the United States.

## Solar plus storage procurement cost comparison 2026



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

Q RTE SG& A SOC USD VDC WAC WDC  
 alternating current battery energy storage  
 system U.S. Bureau of Labor Statistics balance of  
 system capital expenditures direct current U.S. ...

### Utility-Scale PV-Plus-Battery , Electricity , 2024 , ATB

All cost values are presented in 2022 real U.S. dollars (USD). In general, our cost assumptions for utility-scale PV-plus-battery are rooted in the cost assumptions for the independent utility-scale PV and 4-hour battery storage technologies.



### Solar energy storage will be an \$8bn market in 2026

Distributed storage for solar systems will be worth \$8bn in 2026 as solar combines with storage in order to continue its remarkable growth, according to Lux Research.

### Solar-Plus-Storage: Fastest, Cheapest Way To Meet ...

U.S. power demand is surging as data centers plug in. The cheapest, fastest way to keep the lights on? Solar-plus-storage, not gas generation.



## Solar Installed System Cost Analysis , Solar Market ...

NREL analyzes the total costs associated with installing photovoltaic (PV) systems for residential rooftop, commercial rooftop, and utility-scale ground-mount systems.



## Solar Plus Storage Cost Assessment and Design ...

This is an executive summary of a study that evaluated the market applications and relative costs for paired solar plus storage systems, encompassing the multiple ...



## Solar Installed System Cost Analysis , Solar Market ...

Solar Installed System Cost Analysis NREL analyzes the total costs associated with installing photovoltaic (PV) systems for residential rooftop, commercial rooftop, and utility-scale ground-mount systems. This work has ...



## NOTICE1

In this Straw, Board Staff proposes to create two energy storage programs for Front-of-Meter and Behind-the-Meter energy storage incentives, both patterned after the solar-plus-storage ...



## Coal Cost Crossover 3.0: Local Renewables Plus Storage ...

This research shows all but one of the country's 210 coal plants are more expensive to operate than either new wind or new solar. If the IRA's new energy community tax credit is included in ...

## REPORT

R/kWh. Our analysis, based on implied solar and storage costs from these bids and bottom-up global cost estimates, shows that a solar-plus-storage system can deliver 24/7 clean power at ...



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

The National Renewable Energy Laboratory (NREL) has been modeling U.S. solar photovoltaic (PV) system costs since 2009. This year, our report benchmarks costs of U.S. PV for ...

## Standalone vs. Solar-Plus-Storage: What Is Best?

If you install solar-plus-storage, then you can charge the battery directly from your solar panels, meaning instead of shifting from using electricity (or storing it) during the lowest price period during the day, you're actually ...



### LEVELIZED COST OF ENERGY+

Subsidized levelized cost for each Value Snapshot reflects: (1) average cost structure for storage, solar and wind capital costs, (2) charging costs based on local wholesale prices or utility tariff ...

## European Market Outlook for Battery EU solar Storage 2025

...

Welcome to our European Market Outlook for Battery Storage 2025-2029. Though the battery energy storage revolution continued to unfold across Europe in 2024, setting yet another ...



### 25-26 TPP PD

Total amounts also account for the clean firm and long duration storage procurement requirements per the Mid-Term Reliability (MTR) Decision (D.21-06-035) adjusted for such ...

## Solar & Energy Storage Summit 2026 , Wood Mackenzie

Join Wood Mackenzie's expert team of solar and energy storage research analysts and consultants in Denver, CO from 29-30 April 2026 as they engage in powerful conversations with solar and energy storage developers, utilities, ...



## Plummeting Solar+Storage Auction Prices in India ...

Plummeting costs of solar and battery storage in India along with technological improvements are opening new opportunities for clean and low-cost power generation. Recent energy storage auctions in India reveal record-low prices, ...

## Solar-Plus-Storage Market Poised To Reach \$8 Billion In 2026

The report says solar-plus-storage is a key necessity for solar to overcome limitations like intermittency and the lack of power after dark.



## SOLAR + STORAGE: A GUIDE FOR LOCAL GOVERNMENTS

Since storage is a developing technology, local governments may encounter challenges in deploying storage. The energy landscape is constantly changing, and policy processes must ...

## California's Energy Storage Procurement Study (Draf

The historical evaluation in our report is not intended to be--nor would it be correctly interpreted as-- a prudency review of any individual energy storage resource ...



## Rooftop Solar EPC Market , Global Market Analysis Report

EPC companies focusing on integrated solar-plus-storage solutions, digital design tools, and cost-efficient installation models will be best positioned to capture value in ...

## ATTACHMENT E: END USES AND MULTIPLE ...

The storage resources included in our historical analysis are predominantly standalone lithium-ion batteries with durations of up to 4 hours, so we supplement our discussion based on industry ...



## [U.S. energy storage monitor](#)

About this report The U.S. energy storage monitor is a quarterly publication of Wood Mackenzie Power & Renewables and the American Clean Power Association. Each quarter, we gather ...



## Cost-effectiveness of solar power plants from 2026 ...

Profitability of solar power plants 2026 the most profitable year for investing in solar power plants. Detailed analysis of electricity price growth and new market rules.



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

Figure ES-3, Figure ES-4, and Figure ES-5 compare our MSP and MMP benchmarks--in total system cost terms--for PV-plus-storage systems in the residential, commercial, and utility ...

## CPUC Issues Net-Qualifying Capacity Values to Be ...

On September 10, 2021, Energy Division staff issued the ELCCs to be used for wind, solar, battery storage, and storage paired with renewables, for the 2023 and 2024 procurement requirements.



## Solar-plus-storage economics: What works where, and why?

The results of this study can be used by building owners, policy makers, industry, and utilities to identify the most economical applications of behind-the-meter solar-plus-storage ...

## 25-26 Proposed TPP RESOLVE Analysis Slide Deck\_FINAL

Total amounts also account for the clean firm and long duration storage procurement requirements per the Mid-Term Reliability (MTR) Decision (D.21-06-035) adjusted for such ...

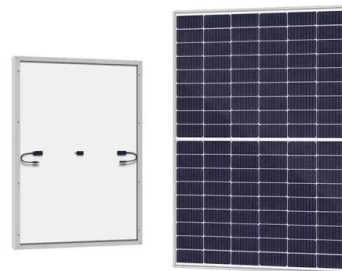


## Southern's Unit Secures PSC Approval for Five Solar Facilities

3 ???· The integration of solar plus storage, the growing corporate interest in renewable subscriptions and the aggressive long-term procurement targets all point to a transformative ...

## Storage Futures , Energy Systems Analysis , NREL

In this multiyear study, analysts leveraged NREL energy storage projects, data, and tools to explore the role and impact of relevant and emerging energy storage technologies in the U.S. power sector across a range of ...



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

Based on our bottom-up modeling, the Q1 2021 PV and energy storage cost benchmarks are: \$2.65 per watt DC (WDC) (or \$3.05/WAC) for residential PV systems, 1.56/WDC (or ...

## Contact Us

---

For catalog requests, pricing, or partnerships, please visit:  
<https://naturesnursery.co.za>