



# Photovoltaic energy storage system scale ranking list

Are solar photovoltaic system and energy storage cost benchmarks a unique fingerprint?

Dive into the research topics of 'U.S. Solar Photovoltaic System and Energy Storage Cost Benchmarks: Q1 2021'. Together they form a unique fingerprint. Ramasamy,V.,Feldman,D.,Desai,J.,&Margolis,R. (2021).

Who are the 11 references for solar photovoltaics with energy storage?

11 References Ardani,Kristen,Eric O'Shaughnessy,Ran Fu,Chris McClurg,Joshua Huneycutt,and Robert Margolis. 2017. Installed Cost Benchmark and Deployment Barriers for Residential Solar Photovoltaics with Energy Storage: Q1 2016

How much does an energy storage system cost?

The modeled \$/kWh costs for 600-kW Li-ion energy storage systems vary from \$469/kWh (4-hour duration) to \$2,167/kWh (0.5-hour duration). The battery cost accounts for 41% of total system cost in the 4-hour system, but only 11% in the 0.5-hour system.

What is the cost of a stand-alone energy storage system?

19 The total cost of a stand-alone utility-scale energy storage system with a power rating of P(kW) and storage duration H(hrs) can also be represented using the following linear equation: Total System Cost =  $\$311.28 * P + \$300.24 * P * H$  with an R squared value of 99.8. 40

What is the battery size of a utility-scale Li-ion energy storage system?

Utility-Scale Li-ion Energy Storage System: Model Inputs and Assumptions

| Model Component            | Modeled Value                            | Description                                    | Source    |
|----------------------------|--|--|-----------|
| Battery total size         | 60 MWDC 240 MWh usable 312 MWh nameplate | Baseline case to match a 100-MW PV system      | NREL 2021 |
| Battery size per container | 5 MWh per 40-ft container                | Assumption to compute the number of containers |           |

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