



Top 5 Reasons Hybrid Power Plants Are Growing

Overview

Hybrid power plants generally consist of solar, wind, or other renewable energy generation sources co-located with energy storage facilities. At the end of 2021, there were more than 8,000 MW of wind or solar generation connected to storage. Nationwide, hybrid projects make up 32% of all planned capacity and 90% of that is solar + storage.



1

Growing Interest in Hybrid Power Plants Nationwide

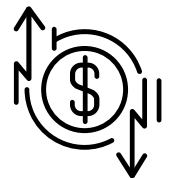
- Falling battery prices/growth of renewables is driving interest
- 133% increase in operational capacity from 2020 to 2021
- 286+ GW of solar + storage projects proposed in the U.S.



2

Solar + Storage Hybrids Prices are Dropping Nationwide

- 2017 PPA Prices = \$40-\$95 per MWh-PV
- 2021 PPA Prices = \$30-\$75 per MWh-PV



3

Tax Credits and Other Benefits are Driving Solar Hybrid Plants

- Hybrid plants can benefit from construction cost savings and tax credits
- Developing and siting renewables and battery storage projects together is cost-effective



4

Hybrid Power Plants Create "Mini-Grids" in Remote Locations

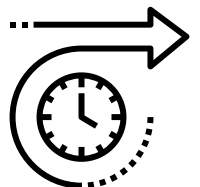
- Hybrids act as stand alone power systems to generate, store and provide clean energy in locations that lack infrastructure and have limited access to the electric grid



5

Where next? Priority Areas for Hybrid Power Research

- Ongoing work and research are focused on developing rules and establishing how best to value hybrid resources in the marketplace



American Clean Power, <https://cleanpoweriq.cleanpower.org/app/>, 2021 Annual Report

Seel, Jo, and Will Gorman. Batteries Included - Eta-Publications.lbl.gov. Lawrence Berkeley National Laboratory, Apr. 2022, https://eta-publications.lbl.gov/sites/default/files/hybrid_top_10_fact_sheet.pdf.