



# Solar energy cost per kwh 2021

How much does solar power cost in 2021?

The global weighted average levelised cost of electricity (LCOE) of new utility-scale solar PV projects commissioned in 2021 fell by 13% year-on-year, from USD 0.055/kWh to USD 0.048/kWh. With only one concentrating solar power (CSP) plant commissioned in 2021, after two in 2020, deployment remains limited and year-to-year cost changes volatile.

Who are the authors of solar photovoltaic system cost benchmark 2021?

Feldman, David, Vignesh Ramasamy, Ran Fu, Ashwin Ramdas, Jal Desai, and Robert Margolis. 2021. U.S. Solar Photovoltaic System Cost Benchmark: Q1 2020. Golden, CO: National Renewable Energy Laboratory. NREL/TP-6A20-77324.

How much energy does a PV system use in 2021?

3 kW/6 kWh to the Q1 2021 benchmarked sized of 5 kW/12.5 kWh. Figure ES-3 shows approximately 6% and 3% reductions in residential PV-plus-storage benchmark between 2020 and 2021 for DC-coupled and AC-coupled cases respectively.

How much does solar cost per watt?

Using 5.8kW, or 5,800 watts, as our system size, and per the latest national averages from EnergySage, \$2.81 cost per watt, will land us at a ballpark figure of \$16,298 before federal, state, and local incentives are applied. The chart below from EnergySage demonstrates how the 2021 average solar prices in cost per watt vary by state in the U.S.

How much does a solar system cost?

This translates to a range of \$2.06- \$12.37/kW/year, and a benchmark value of \$3.44/kW/yr. for a 200-kW commercial rooftop system and \$1.17-\$7.02/kW/year, and a benchmark value of \$1.95/kW/yr. for a 100 MW utility-scale single-axis tracking system.

How much does a new wind project cost in 2021?

The global weighted average levelised cost of electricity (LCOE) of new onshore wind projects added in 2021 fell by 15%, year-on-year, to USD 0.033/kWh, while that of new utility-scale solar PV fell by 13% year-on-year to USD 0.048/kWh and that of offshore wind declined 13% to USD 0.075/kWh.



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