



# The cost of electricity generation from large solar power plants

These benchmarks help measure progress toward goals for reducing solar electricity costs and guide SETO research and development programs. Read more to find out how these cost benchmarks are ...

Solar photovoltaic systems (\$800-\$1,000/kW) and onshore wind projects (\$1,200-\$1,500/kW) are also among the lower-cost power generation options primarily due to the simpler ...

Solar, wind, and hydropower are based on the projected levelized cost of energy, which includes capital expenditures and operating costs, while natural gas, coal, and nuclear are based on ...

The average cost per unit of energy generated across the lifetime of a new power plant. This data is expressed in US dollars per kilowatt-hour. It is adjusted for inflation but does not account for ...

The U.S. Energy Information Administration (EIA) publishes the following information regarding the cost to build different types of electricity generators in the United States.

Renewables continue to prove themselves as the most cost-competitive source of new electricity generation. On an LCOE basis, 91% of newly commissioned utility-scale renewable capacity ...

To accurately reflect the changing cost of new electric power generators in the Annual Energy Outlook 2025 (AEO2025), EIA commissioned Sargent & Lundy (S&L) to evaluate the overnight capital cost ...

It presents the plant-level costs of generating electricity for both baseload electricity generated from fossil fuel and nuclear power stations, and a range of renewable generation - ...

Overview  
Cost factors  
Cost metrics  
Global studies  
Regional studies  
See also  
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Notes  
While calculating costs, several internal cost factors have to be considered. Note the use of "costs," which is not the actual selling price, since this can be affected by a variety of factors such as subsidies and taxes:  
o Capital costs tend to be low for gas and oil power stations; moderate for onshore wind turbines and solar PV (photovoltaics); higher for coal plants and higher still for waste-to-energy, wave and tidal, solar thermal, ...

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As costs for solar and wind technologies have decreased, the capital costs of renewable energy generation facilities have begun to converge with the least expensive conventional generation ...



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