

Cost of solar energy per megawatt-hour





Overview

How much does a megawatt hour of electricity cost?

Back in 2010, a megawatt hour of electricity gleaned from solar photovoltaic cost a global average \$378 to generate. That's without the effect of any subsidies which may have been applicable in some areas.

How much does solar energy cost?

And ultra-supercritical coal is a type of coal plant that is more efficient than traditional coal plants: Energy coming from older plants is even more expensive. The base cost of solar energy is only \$23.52 per megawatt-hour, which is almost half the base cost of coal, \$43.80 per megawatt-hour. Is Solar the Cheapest Form of Energy?

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How much does a solar plant cost?

Utility scale solar projects had a range of \$38 to \$78 per MWh. A new combined-cycle natural gas plant, by contrast, had a cost of \$48 to \$109. But an existing gas plant had a cost range of \$24 to \$39 per MWh. Even existing coal plants are potentially competitive, having a range of \$31 to \$114 per MWh.

Does commercial solar cost a lot?

The solar price for commercial projects varies based on system size, location, energy needs, and available incentives. Unlike residential solar, commercial solar pricing benefits from economies of scale, resulting in a lower levelized cost of electricity (LCOE).



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Why MW Matters in Solar Economics When evaluating solar project feasibility, cost per megawatt (MW) has become the industry's universal yardstick. Imagine planning a 100MW solar farm - ...

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