

Solar Small-Scale On-Site Energy China





Overview

Does China have more utility-scale solar?

China has more utility-scale solar than any other country. The 277 GW of utility-scale solar capacity installed in China in 2024 alone is more than twice as much as the 121 GW of utility-scale solar capacity installed in the United States at the end of 2024.

How big is China's solar power pipeline?

China is advancing a nearly 1.3 terawatt (TW) pipeline of utility-scale solar and wind capacity, leading the global effort in renewable energy buildout. This is in addition to China's already operating 1.4 TW of solar and wind capacity, nearly 26% of which (357 gigawatts (GW)) came online in 2024.

How big is China's solar capacity?

About 161 GW (23%) of prospective capacity is in announced phases, while 261 GW (37%) is in pre-construction phases. China's construction capacity exceeds 40%, as 287 GW has broken ground. This is roughly four times the global average for capacity under construction (9%). ¹ All solar capacities are reported in MWac.

What is a utility-scale solar project?

Note: NEA considers utility-scale solar to include projects of at least six megawatts of installed alternating current capacity. Utility-scale solar power capacity in China reached more than 880 gigawatts (GW) in 2024, according to China's National Energy Administration. China has more utility-scale solar than any other country.



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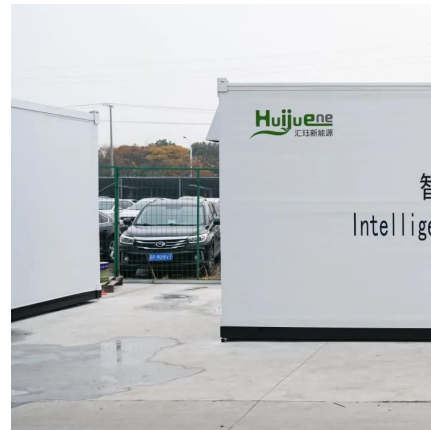


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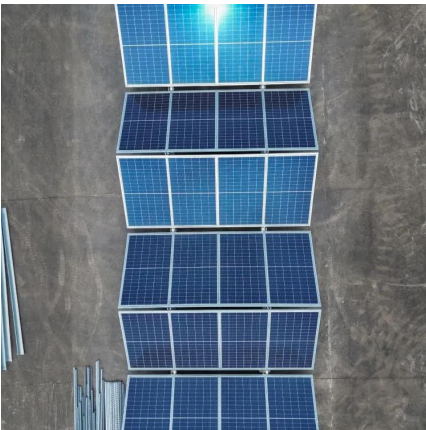
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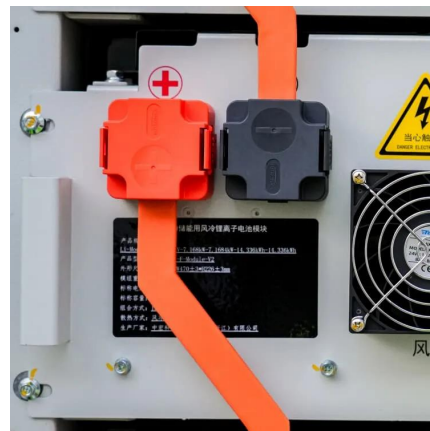
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