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Solar power is gradually taking over the energy industry, with global solar capacity growing to about one and a half terawatts (TW) at the end of 2023. Part of this growth is undoubtedly due to solar panel costs dropping by 82% since 2010.

Most of the current capacity isn't from residential solar panels but from commercial solar farms. With more incentives, lower costs, and better technology, solar farms are spreading across the world.

We've used the most accurate and up-to-date information we could find, from a combination of official websites (where available), the NS Energy Business solar project database, and other sources like NASA.

It's a hugely impressive site with nearly seven million solar panels working to deliver clean energy. China also has big ambitions for the Golmud Solar Park—it hopes to reach 16 GW within the next five to six years.

Bhadla, the second largest solar farm in the world, has a capacity of 2.7GW. The site covers 14,000 acres, or 56 km²—equivalent to 3% of the entire surface area of London or just under the size of Manhattan (59.1 km²).

It also benefits from near-perfect conditions, with the Rajasthan region getting 7.57kWh per m² per day of solar irradiation on average—300 sunny days per year is perfect for a solar farm.

Ordinarily known for its vast oil reserves, the United Arab Emirates' also boasts the third biggest solar farm in the world. The Mohammed bin Rashid Al Maktoum Solar Park (MBR) sits in designated areas 52,881 acres (214km²) in size, putting the UAE firmly in the spotlight.

Despite being bigger than the second and third-largest solar farms, MBR hasn't yet reached the same power output. MBR plans to expand its current capacity of 2.62GW to around 5GW by 2030, possibly earlier.

It already provides power to 270,000 homes and offsets roughly 1.4 million tonnes of CO₂ emissions yearly. That's good, but with the UAE having one of the highest emissions per capita globally, much more remains to be done.



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