# Solar power roof around the world

Covering the world"s rooftops with solar panels could provide 65% of global electricity, according to the findings of new research from the University of Sussex.

Start exploring solar potential by clicking on the map. Select sites, draw rectangles or polygons by clicking the respective map controls. Calculate energy production for selected sites. The Global Solar ...

The study examined satellite data to determine the total suitable roof area around the planet which could be used for rooftop solar panels.

Our new paper in Nature Communications presents a global assessment of how many rooftop solar panels we"d need to generate enough renewable energy for the whole world - and where we"d need ...

A new modeling study indicates that if every roof around the world were outfitted with solar panels, it could result in a cooling effect of up to 0.13°C by the year 2050.

Covering rooftops across the planet with solar panels could deliver 65 per cent of current global power consumption and almost completely replace fossil fuel-based electricity, and it could ...

Here we map the global rooftop area at 1-km resolution, quantifying 286,393 km 2 of rooftops worldwide through geospatial data mining and artificial intelligence techniques.

The worldwide growth of photovoltaics is extremely dynamic and varies strongly by country. In April 2022, the total global solar power capacity reached 1 TW, increasing to 2 TW in 2024. The top ...

With 118 GW of new rooftop solar installations worldwide in 2022, the equivalent of 36 million more homes globally is powered by solar. Global solar smashes annual installation record for ...

Map of solar roof locations around the World. Search for solar roofs on any building around the World.

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