

# The current situation of solar thermal power generation abroad

What is the future of solar energy?

The Future of Solar Energy considers only the two widely recognized classes of technologies for converting solar energy into electricity -- photovoltaics (PV) and concentrated solar power (CSP), sometimes called solar thermal) -- in their current and plausible future forms.

Is solar energy a future energy resource?

The utilization of renewable energy as a future energy resource is drawing significant attention worldwide. The contribution of solar energy (including concentrating solar power (CSP) and solar photovoltaic (PV) power) to global electricity production, as one form of renewable energy sources, is generally still low, at 3.6%.

What is the contribution of solar energy to global electricity production?

While the contribution of solar energy to global electricity production remains generally low at 3.6%, it has firmly established itself among other renewable energy technologies, comprising nearly 31% of the total installed renewable energy capacity in 2022 (IRENA, 2023).

When will solar power become a global trend?

New solar capacity added between now and 2030 will account for 80% of the growth in renewable power globally by the end of this decade. Adoption accelerates due to declining costs, shorter permitting timelines and widespread social acceptance.

What are the emerging solar thermal technologies?

These emerging solar thermal technologies are: Electrical heat storage (including hot water tanks and compact heat stores, both residential scale and district heating scale) using the power from solar photovoltaics (on-site and/or off-site).

How will global solar manufacturing capacity change in 2024?

Global solar manufacturing capacity is expected to reach over 1 100 GW by the end of 2024, more than double projected PV demand. This oversupply has caused module prices to more than halve since early 2023, leading to negative net margins for integrated solar PV manufacturers in 2024.

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A schematic diagram showing the main components of a central receiver power plant in which water is 527  
Solar thermal power generation Incident solar energy  $C_{e.tr}$  l receive  $Y \sim I$  Heliostats &quot; ~ Turbine

Alternator @ Condenser 1 ~&quot;~ Pump ...

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