

# Sunshine Mate Solar Photovoltaic Power Generation

What is solar photovoltaic (PV) power generation?

Solar photovoltaic (PV) power generation is the process of converting energy from the sun into electricity using solar panels. Solar panels, also called PV panels, are combined into arrays in a PV system. PV systems can also be installed in grid-connected or off-grid (stand-alone) configurations.

Is solar PV a competitive source of new power generation capacity?

Solar PV is emerging as one of the most competitive sources of new power generation capacity after a decade of dramatic cost declines. A decline of 74% in total installed costs was observed between 2010 and 2018 (Figure 10).

Are solar PV installations eligible for government rebates?

Once accredited with the Clean Energy Council, solar PV installations are eligible for government rebates such as Small-scale Technology Certificates and feed-in tariffs.

Should solar PV be more powerful than wind?

In the context of total installed capacity by 2050, much greater capacity expansion would be needed for solar PV (8 519 gigawatts [GW]) as compared to wind (6 044 GW).<sup>2</sup> Alongside wind energy, solar PV would lead the way in the transformation of the global electricity sector.

Will solar PV be 1.5°C compatible?

Consequently, they miss the large mitigation potential of solar PV and describe the 1.5°C-compatible scenarios that rely on a technology mix that will most likely be more expensive and over-reliant on far less mature technologies.

Is solar PV a strategic renewable technology?

This report clearly points out that solar PV is one of the strategic renewable technologies needed to realise the global energy transformation in line with the Paris climate goals. The technology is available now, could be deployed quickly at a large scale and is cost-competitive.



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