

How are trade barriers affecting solar power production?

It is clear that ongoing trade barriers in BAU have restrained the PV product trade and reduced global solar power generation potential, and higher trade barriers (TBS1 and TBS2) will inevitably worsen the loss.

Does carbon-electricity linkage affect grid parity of PV industry?

As China's carbon market is not involved in the PV power plants, and it is difficult to estimate the actual CEQ demand of coal-fired power plants, we estimate the impact of carbon-electricity linkage on grid parity of PV industry in the case of no free quota in carbon markets.

Is CEQ trading a good investment for PV power plants?

These results reveal that CEQ trading can create a new profit growth point for PV power plants, which is equivalent to reducing the LCOE of electricity consumption. Also, it is a powerful force to speed up the access to the grid parity of coal-fired power and PV power.

When will China's PV Grid parity formation happen without CEQ trading?

Our simulation results show that without CEQ trading, the time of China's PV grid parity formation is between 2024 and 2025, while the introduction of this trading can help the formation of this grid parity in PV industry about 2 years ahead of schedule, i.e. between 2022 and 2023.

How will the global PV power supply change?

The global annual PV power electricity supply will increase from 426.02 TWh to 13,934.96 TWh (with PV power installation capacity increasing from 95.54 GW to 243.25 GW), the proportion of which in the power-generation/supply mix will grow from 1.67% to 26.92% (Fig. 4).

How to develop PV Grid parity?

However, grid connection and land rent, which accounts for 20% of the total cost and will continuously increase, are the key factors to further reduce the LCOE of PV in the future. Therefore, to develop PV grid parity, the government should focus on solving the new cost growth problem of grid connection and land rent.

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