

# Solar power generation participates in carbon trading

How does carbon trading affect power plants?

Acceptance of CT by power plant operators and their electricity generation decisions under carbon trading will affect the proportion of thermal power integrated into the grid, thus disturbing grid stability and, in certain situations, causing price fluctuations.

What are carbon trading mechanisms?

Carbon trading (CT) mechanisms involve government-mandated regulations within specific regions and time frames, restricting carbon emissions from power generation activities to prescribed levels.

How do carbon prices affect thermal power production?

In scenarios where total market demand exceeds supply, elevated carbon prices challenge thermal power producers in balancing emission reduction costs with profitability, consequently leading to a reduction in newly installed capacity for traditional energy generation.

Why is the global solar PV product trade important?

The global solar PV product trade plays an important role in facilitating PV product production and utilization and in mitigating climate change. Traded solar cells and modules in 2017 could generate 2325.25 TWh of electricity over their 30-year lifetimes.

How can China's power sector transition to low-carbon development?

To accomplish the substantial task of reducing carbon dioxide and promote socioeconomic sustainable development, substantial efforts towards the development of renewable energy generation industries are imperative for China's power sector to transition towards low-carbon development.

How does carbon quota affect energy production costs?

In the interconnected model of the CT and electricity markets, traditional energy generation enterprises, exemplified by thermal power plants, experience significant influence on production costs due to carbon quota.



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