

# Solar and wind power concentrated power generation system

What is wind power-photovoltaic-concentrating solar power cluster?

Wind Power-Photovoltaic-Concentrating Solar Power Cluster In CSP, wind power and PV power cluster, according to the local power characteristics and climate complementation, the establishment of wind and photovoltaic power cluster can effectively realize the complementary of wind and solar energy [29 ].

How will a wind power-photovoltaic-concentrating solar power cluster affect the grid?

A wind power-photovoltaic-concentrating solar power (Wind-PV-CSP) generation cluster will still have a certain impact on the grid, because the integration of a variety of renewable energy brings more complex uncertainty.

Are wind power and photovoltaic power generation complementary in time?

Thus, wind power and photovoltaic power generation are complementary in time. In the hybrid power generation cluster, integrated energy complementary power generation can effectively improve the new energy consumption capacity of power system [30 ].

Why do we need CSP power stations in wind power generation?

The introduction of CSP power stations in wind power generation means to improve the absorption capacity of wind power generation by means of energy complementarity and balance the output fluctuations of the system.

What is a new power generating system?

This paper proposes a new power generating system that combines wind power (WP), photovoltaic (PV), trough concentrating solar power (CSP) with a supercritical carbon dioxide (S-CO<sub>2</sub>) Brayton power cycle, a thermal energy storage (TES), and an electric heater (EH) subsystem.

What is concentrated solar power (CSP) & thermal energy storage (TES)?

Concentrated solar power (CSP) is a promising technology to generate electricity from solar energy. Thermal energy storage (TES) is a crucial element in CSP plants for storing surplus heat from the solar field and utilizing it when needed.



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Web: <https://publishers-right.eu/contact-us/>

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346

