

# Wind power generation upstream and downstream industry chain

What are upstream firms in the wind energy industry?

Upstream firms include wind power towers, wind power motors, wind power spindles, wind power mold, and other equipment manufacturers, responsible for wind power generation equipment manufacturing. Current studies of the wind energy industry mainly focus on energy transformation or policy guidance.

What is a wind power industry chain?

The development of the wind power industry has led to the formation of an industry chain where its components form a complete and dynamic cycle. i.e. the upstream enterprises provide products and services to the downstream enterprises; while the upstream enterprises obtain feedback information from the downstream enterprises.

What is the CD between midstream and downstream of China's Wind power industry?

From 2010 to 2019, the CD between the midstream and downstream of China's wind power industry chain is between 0.9 and 1. Except for the running-in phase in 2011, the coupling is at a good level and above in all other years, and the impact between the midstream and downstream subsystems is greater.

What is the coupling development trend of China's Wind power industry chain?

Fig. 2. The coupling development trend of upstream and midstream wind power industry chain from 2010 to 2019. 4.3.2. "Midstream-downstream" coupling coordination degree evaluation From 2010 to 2019, the CD between the midstream and downstream of China's wind power industry chain is between 0.9 and 1.

What is the development of upstream wind power?

The development of upstream wind power mainly focuses on the transaction statistics of wind turbines, including the transaction amount, capacity, main body, and share of wind turbines.

Who are the upstream stakeholders in wind power supply chain?

The upstream is the supply chain for wind turbines. There are seven key stakeholders, including central government, R&D institutions, patent owners, components and parts manufacturers, wind turbine manufacturers, wind farm investors and local governments ( Table 1 ). Table 1. Upstream stakeholders in China's wind power supply chain.



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