Wind power generation industry policy

Do wind power industry policies affect innovation performance of wind power enterprises?
The principal results of our study mainly conclude that: (1) Wind power industry policies have a significant positive effecton innovation performance of wind power enterprises and especially for the core technological innovation. (2) The effect of different types of policy instruments on enterprise innovation is significantly different.

How good is China's Wind power industry policy?
(II) The overall situation of China's wind power industry policy is good,and the wind power industry policy lacks relevant policies and policies for ordinary residents in terms of policy receptors. The measures are insufficient in technical support and talent construction.

How to evaluate wind power industrial policies quantitatively?
In this paper,based on 66 wind power industrial policies from 2010 to 2021 in China,the policy texts were coded and classified into policy tools. By combining the text mining technology with the Policy Modeling Consistency (PMC) index model,10 groups of evaluation index systemswere established to evaluate the industrial policies quantitatively.

How should the wind power industry be developed?
The wind power industry should be developed from multiple perspectives,focusing on the coordinated development of various fields. Demand-based policy tools should increase forecasting,supervision,and other policies to guide industrial development.

Do wind power policies influence wind power policy intensity?
However,most scholars use dummy variables in empirical analyses of WPD to represent wind power policies,and no scholarhas explored how wind power policies influence WPD from the perspective of policy intensity.

Why do we need a wind power policy?
The existing policy is mostly intended to promote development and enhance the scale of wind power generation and is less concerned with the quality of development. Second, specific content-, market-, and incentive-based policy tools are rare, and there is too much emphasis on supply-side construction.

This requires dispatchable generators to quickly adapt power output, and it imposes steep ramping gradients. Most conventional generators in today"s power systems are not designed and optimized for such operational mode, in particular nuclear and coal plants. But simultaneity in wind generation is also a problem for wind power plant operators.

This study used content analysis to quantify the policy intensity and preferences of each province"s wind

power industry based on the policy tools defined by the theory.

DOI: 10.1016/J.ENPOL.2012.06.067 Corpus ID: 154756244; China"s wind power industry: Policy support, technological achievements, and emerging challenges @article{Wang2012ChinasWP, title={China"s wind power industry: Policy support, technological achievements, and emerging challenges}, author={Zhongying Wang and Haiyan Qin and Joanna I. Lewis}, journal={Energy ...

Together with wind curtailment, other factors affecting the wind power industry were discussed. Wang and others [5] identified regulatory barriers, grid integration challenges, and challenges to continuous technological innovation as possible barriers.Another study, by applying the SWOT analysis, summarized a total of 19 factors affecting the wind power industry ...

Based on the wind power industry policies issued from 2010 to 2021, this paper evaluates the policies and provides theoretical support for the formulation, revision, and ...

of wind power between 1986 and 1990 (Organisation for Economic Co-Operation and Development (OECD), 2000). This agreement supported the local wind industry"s growth at a time when its overseas sales had fallen. The government set ambitious targets for utilities to install wind power, with two orders of 100 MW issued in 1985 and 1990, and a ...

Wind electricity generation in the UK. In 2020, the UK generated 75,610 gigawatt hours (GWh) of electricity from both offshore and onshore wind. This would be enough to power 8.4 trillion LED ...

This research examined China"s wind-industry policy pathway by looking at how the government selectively combined quantity-oriented policies, quality-oriented, and cost ...

The scale of wind power generation in China is increasing, and China has become the largest producer of wind power in the world. ... Wang et al. (2022) reported that the wind power industry policy ...

Wind energy is a virtually carbon-free and pollution-free electricity source, with global wind resources greatly exceeding electricity demand. Accordingly, the installed capacity of wind turbines ...

The ocean has provided rich resources and a wide development space for human activities [7].The offshore wind power refers to using wind resources from the sea to generate electricity through wind turbines for transmission to inland power grids [8].As a renewable, non-polluting, and cost-effective energy source [9], offshore wind power is ...

Vietnam has the most ambitious wind power development plan in ASEAN, with a tentative target of 11,800 MW of wind power capacity by 2025 (Vietnam Ministry of Industry and Trade, 2020). The targets of Thailand and the Philippines are about 3000 MW by 2036 (Climate Scorecard, 2020) and 2378 MW by 2030 (Philippines Department of Energy, 2011), ...

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This study examined China"s wind power policy from two aspects: text theme mining and PMC policy quantitative evaluation. The main conclusions are as follows. First, overall, China"s wind power policy themes are ...

Wind turbines use the energy of the wind to spin an electric generator, which produces electricity. Wind turbines are commonly located on hilltops or near the ocean. In some countries, wind turbines have also been built in the ocean, either floating on the surface or using giant pylons extending to the sea floor.

Abundant - Wind generation is a good energy source as it is efficient, reliable and abundant. Zero emissions - Wind turbines don"t produce greenhouse gas emissions during their operating life and are easy to remove, making wind ...

The larger the average power generation of WTs is, the higher the comprehensive capacity of WP generation in a country. With the development of the global WP industry, the average power generation of WTs in the world is constantly improving (as shown in Fig. 15). Among the major WP countries, Denmark, the United States and the United Kingdom ...

Industrial development cannot be separated from policy guidance and support. Scientific evaluation and analysis of wind power industrial policies can promote the sustainable and healthy ...

The scale of wind power generation in China is increasing, and China has become the largest producer of wind power in the world. This is mainly due to government policy support,...

In general, the variable that measures wind power development is power capacity (Yin and Powers, 2010, Delmas and Montes-Sancho, 2011, Menz and Vachon, 2006), wind power generation (Menz and Vachon, 2006) or wind power capacity/generation proportion in total power capacity/generation (Schmid, 2012, Carley, 2009). Since China is still in the early stage of ...

Wind power has played an important part in this success and will be key to achieving the EU"s renewable energy targets and reaching carbon neutral by 2050. ... The below key figures from Eurostat and WindEurope show a steady ...

The Danish government introduced two energy plans which made it become a world leader in wind power; the German government launched public policies to buy-back and support the development of offshore wind power to boost the growth of its wind power industry, the booming of the wind power industry in the United States cannot be separated from its tax ...

This paper intends to analyze the advantages and disadvantages of China"s wind power industry environment using different types of policies from the policy text, and then ...

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As a new and cost-effective renewable energy power generation technology, offshore wind power is getting more and more attention. The development of offshore wind power industry is affected by policy-making, technology management, resources and environment, market supply and demand, and the relationship among the influencing factors is complex. ...

Although subsidies for construction and electricity generation in the wind power industry were plentiful, the high construction cost and immature technology resulted in low profit in most power plants. The net revenue of wind power generation is shown in Fig. 10. After 2010, the "wind power curtailment" has further worsened their already ...

The wind industry must roughly triple its annual growth from a level of 117 GW in 2023 to at least 320 GW by 2030 to meet the COP28 targets, and steer us back on to the 1.5 degree pathway. The Global Wind Report provides a roadmap for ...

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