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Development route of the wind power industry in China

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Abstract

Wind power is one of the world's major renewable energy sources, and its utilization provides an important contribution in helping solve the energy problems of many countries. After nearly 40 years of development, China's wind power industry now not only manufactures its own massive six MW turbines but also has the largest capacity in the world with a national output of 50 million MW h in 2010 and set to rise by eight times of that amount by 2020. This paper investigates this development route by analyzing relevant academic literature, statistics, laws and regulations, policies and research and industry reports. The main drivers of the development in the industry are identified as technologies, turbines, wind farm construction, pricing mechanism and government support systems, each of which is also divided into different stages with distinctive features. A systematic review of these aspects provides academics and practitioners with a better understanding of the history of the wind power industry in China and reasons for its rapid development with a view to enhancing progress in wind power development both in China and the world generally.

Keywords

1. Renewable energy;
2. Wind power;
3. Development route;
4. China

風力發電產業在中國的發展路線

摘要

風力發電是世界上主要的可再生能源之一，它的利用率提供了幫助解決許多國家的能源問題做出了重要貢獻。經過近 40 多年的發展，中國的風力發電產業現在不僅生產自己龐大的 6 兆瓦風機，但也有世界上容量最大的 5000 萬兆瓦h在 2010 年的全國產量，並設置了八倍的數量在 2020 年的。本文通過分析相關的學術文獻，統計，法律，法規，政策及研究和行業報告研究了這一發展路線。在行業發展的主要驅動力被確定為技術，渦輪機，風力發電場建設，定價機制和政府的支持系統，其中每個也分為不同的階段具有鮮明的特點。這些方面的系統評價提供了學術界和實務界更好地了解風力發電產業在中國和其快速發展的原因，以期加強風電開發進度在中國和世界普遍的歷史。

關鍵詞

- 再生能源
- 風力發電
- 發展路線
- 中國

相關單字提示與說明：

1. Renewable
   可再生能源
2. Manufactures
   製成品
3. Investigate
   調查
4. Statistics
   統計
5. Regulations
   法規
6. industry reports
   行業報告
7. identified
   確定
8. pricing mechanism
   定價機制
9. practitioners
   從業人員
10. enhancing progress
    加強進度

句型分析：

1. Wind power is one of the world's major renewable energy sources
   風力發電是世界上主要的可再生能源之一

wind power 風力發電
one of the…之一
the world's 世界上
major renewable energy sources 主要的可再生能源

2. The main drivers of the development in the industry are identified as technologies
   在行業發展的主要驅動力被認定為技術

in the industry 在行業
The……of the development 發展的
main drivers 主要驅動力
are identified as 被認定為

3. each of which is also divided into different stages with distinctive features
   其中的每一個又分為不同的階段具有鮮明的特徵

each of which is 其中的每一個
also divided into 又分為
different stages 不同的階段
with distinctive features 具有鮮明的特徵