

Will China develop solar photovoltaic power generation vigorously?

According to the national development strategy, China will develop solar photovoltaic power generation vigorously. Large-scale development of solar photovoltaic requires a lot of financial support, thus, how to achieve development goals with minimum cost is a meaningful study and can provide practical significance for policy studies.

What is the development of solar PV energy?

The development of solar PV energy throughout the world is presented in two levels, one is the expansion of solar PV projects and research and the other is the research and development (R&D) advancements (Gul et al., 2016).

What is the government doing to promote solar energy development?

A large number of policies and concomitant regulations in favor of solar energy have been released, and the government is trying to establish a policy system suitable to solar energy development. Instruct and intensify relevant research in science and technology.

Does technological progress influence the development and cost changes of solar PV?

This study has considered the role of technological progress in studying the development and cost changes of solar PV power, and it also takes into account the restraints of potential affecting factors such as the resource potential, GDP growth, emission regulation schemes, and grid absorptive capacity.

How will the development path affect solar PV power development?

The development path maintains a relatively slow rising trend before 2040, and it shows a fluctuation trend from 2041 to 2048 with an average annual new increased capacity of 108GW. The GDP growth rate and investment ratio are potential factors affecting the construction cost, but they show limited impact on the solar PV power development.

What is the development plan for solar PV in China?

This development plan is basically in accordance with the current status of solar PV application in China as large-scale PV (LS-PV), BIPV & BAPV, and rural electrification constitute the major market of solar PV, as shown in Fig. 1.

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