

Is China's solar PV power optimal development path based on a dynamic programming approach?

3. Literature review

<div class="df_qntext">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.

<div class="df_qntext">What is the development path of a solar PV system?

The development path is highly dependent on the algorithm and seems a little strange. Furthermore, the result may be changed accordingly when the target is changed, such as by setting the maximum solar PV generation capacity as the development goal. In addition, a lot of work is needed to enhance the accuracy of the predicted parameters.

<div class="df_qntext">Is China's solar PV power optimal development path based on a dynamic programming approach?

This study constructs an energy-economy-environment integrated model by way of a dynamic programming approach to explore China's solar PV power optimal development path during the period 2018-2050 from the perspective of minimum cost.

<div class="df_qntext">Which factors influence the location choice of solar fields?

This research aims to determine which factors influence the location choice of solar fields. This is done through a literature review and a logistic regression analysis. In the literature review, three categories of factors have been determined: environmental, technical, and socio-economic.

<div class="df_qntext">Can a realistic constraint predict solar PV power development path?

Several realistic constraints are set to predict solar PV power development path. The factors that may have potential impacts on the development path are analyzed. In recent years, China's solar photovoltaic (PV) power has developed rapidly and has been given priority in the national energy strategy.

<div class="df_qntext">What are the development targets for solar power?

In this work we set the development targets for solar power at 150GW, 350GW, and 1300GW for 2020, 2030, and 2050, respectively. These targets have been derived from the studies on China's long-term power development.¹

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off-grid and temporary power solutions across diverse sectors. The market, ...

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This study constructs an energy-economy-environment integrated model by way of a dynamic programming approach to explore China's solar PV power optimal development path during ...

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