

# ***The Current Status and Development Trend of China and the United States Solar Photovoltaic Industry***

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**Abstract:** With the development of the times, the global photovoltaic industry is on the rise, with China and the United States making more significant progress in the solar photovoltaic industry. So far, China has become the largest producer and application country of photovoltaic modules in the world. However, the first batch of solar panels in China entered its old age, and it is expected that the first batch will be retired by 2025, even though a large number of components have been replaced through technological upgrades. For the solar energy market in the United States, according to predictions, the proportion of renewable energy that can be produced in the country will triple between 2019 and 2050. However, expanding the proportion of renewable energy and bringing more effective energy is a huge challenge for both China and the United States. In this article, we will study and analyze the current and future trends of the solar energy industry in both countries.

**Keywords:** Distributed photovoltaic, photovoltaic industry, photovoltaic status, future trends

## **1. Introduction**

The photovoltaic industry covers aspects such as the manufacturing of solar cells and the design of photovoltaic systems. In recent years, the current situation of China's photovoltaic industry is attracting attention. According to forecasts, in 2024, China's photovoltaic market will reach 204.7GW, and the photovoltaic assembly capacity has reached the world in the world. First, photovoltaic power generation also follows the growth, and the proportion of new energy power generation capacity in the country will continue. The Chinese government has released a series of policies to support the development of the photovoltaic industry as the main energy sources of the country. To increase the photovoltaic industry to 1.3TW in 2030. In recent years, the U.S. government has adopted a series of policies and implementation measures to develop the photovoltaic industry, such as improving the investment environment of the photovoltaic industry, unique policy support in various states, and implementing high benefits, high subsidies and tax reduction policies in the photovoltaic industry, etc. The government makes many outstanding results in the world in terms of policy and continuous innovation, but in the process of development, there are some disadvantages:

i: China has gradually moved from centralized to distributed photovoltaics in the past. What problems are China facing in photovoltaic power generation now? What is the solution?

ii: In 2025, the first batch of photovoltaic solar panels in China will be retired. After retirement, where will these discarded batteries go? What is the solution?

# The Development Of A Nation 2 United States In The Making

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