

# Promotion of solar photovoltaic and thermal equipment in China

Since entering the 21st century, the global photovoltaic (PV) power generation capacity has increased rapidly. Capacity additions grew from 7.2 gigawatts (GW) installed in 2009 to 16.6 GW in 2010. In 2011, the total PV installed capacity in the world increased to 68GW, and exceeded 100 GW in 2012 [1], [2]. China's domestic market started to increase obviously ...

The exhibition includes photovoltaic production equipment, materials, photovoltaic cells, photovoltaic application products and components, as well as photovoltaic engineering and systems, solar energy and green buildings, smart grid and ...

From 2015 to 2018, the CO<sub>2</sub> emission reduction of China's solar photovoltaic industry is divided into 37.73, 37.75, 62.07 and 169.88, and the total CO<sub>2</sub> emission reduction is 307.43. It can be seen that the solar photovoltaic industry has played an important role in China's energy conservation and emission reduction. Unit: Megaton (Mt).

Solar photovoltaic for China, U.S., Japan and German from 2011 to 2019 [16]. ...

China has been the largest PV products manufacturer in the world since 2007, with 320% more production than its domestic demand. New installations of PV products in 2012 reached 5 GW, which makes ...

Solar photovoltaic (PV) technology has developed rapidly in the past decades and is essential in electricity generation. In this study, we demonstrate the ...

The renewable energy usage constituted around 8% of the total energy consumption in China in 2011. Chinese government has an agenda to increase the renewable energy proportion to 15% in 2020, with solar energy playing an important role [6]. This work provides a comprehensive review of the solar energy resources and the status of development ...

Likewise, the global installed capacity trend of solar thermal technology is given in Fig. 2 which indicates that the present global installed capacity of solar thermal technology is about 6500 MW (Solar Energy Data, 2020). Thus these trends indicate that the technique of cogeneration of electrical and heat energy with solar photovoltaic thermal (PVT) technology ...

Buildings account for a significant proportion of total energy consumption. The integration of renewable energy sources is essential to reducing energy demand and achieve sustainable building design. The use of ...

For example, China's solar energy industry still lacks clear photovoltaic and solar thermal industry

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development planning; the public sector research and testing and certification platform still needs to be established; the supply chain of solar photovoltaic power generation system equipments and applications should be further developed and ...

As indicated in the case of interactions between China's wind energy industrial policy and wind power generation policy (Zhang et al. 2013, pp. 342-353), there should also be a natural affinity between the country's solar PV manufacturing policy and solar power generation policy, in which the improved competitiveness and capabilities of the manufacturers of solar ...

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