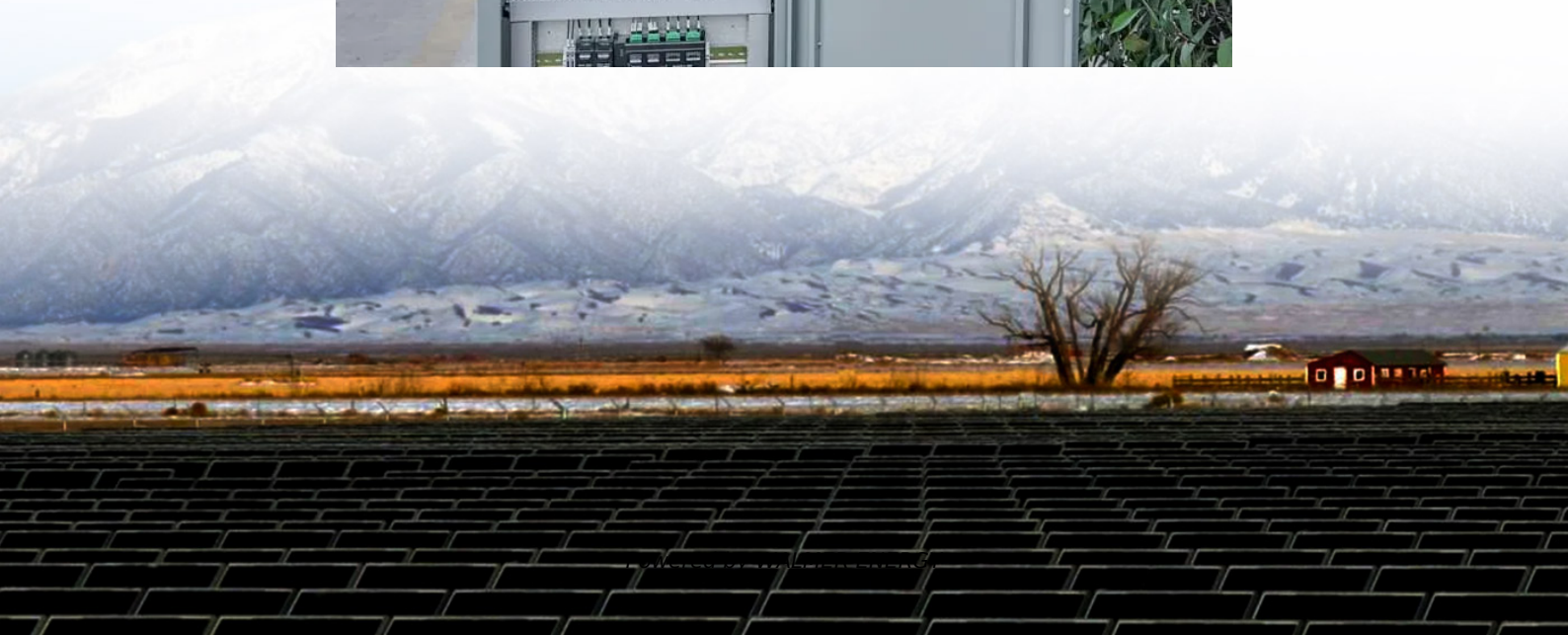


Expanding the solar energy system





Overview

With the increasing proportion of variable renewable energy characterized by fluctuation and the promotion of the “Clean Heating” policy, the problem of seasonal energy imbalance of the system has be.

Is our solar system expanding?

In other words, our solar system – our sun, our Earth and its family of nine planets – is not expanding. Earth is located 150 million kilometers – about 93 million miles – or 8 light-minutes from the sun. It’s thought to have been located at this distance from the sun since our solar system was born, some four-and-a-half billion years ago.

What is the capacity of solar power generators in China?

Among them, the total capacity of wind power generators is 365,000 MW and the total capacity of solar power generators is 393,000 MW. Renewable energy will become the main body of installed capacity of generators in China [3]. However, the uncertainty of renewable energy makes it difficult for the system to achieve full-time energy balance.

What is the capacity of wind and solar power in Xinjiang?

The hourly capacity factors for wind and solar power in Xinjiang province are calculated according to the NASA database [40]. In Xinjiang energy system, the total capacity of traditional thermal, wind and PV units is up to 60,599.6 MW, 26,140.5 MW and 14,672.2 MW respectively in 2022.

Can CSP be used in energy system planning model?

As illustrated above, conventional planning model of energy system with CSP do not attempt to model every day or hour of the whole year in a sequential manner, but rather simulate the operation within the typical days, due to computational infeasibility to incorporate the traditional CSP model into system planning model on 8760-h simulation basis.



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