

How has China's high-speed rail impacted the energy consumption structure?

The rapid development of China's high-speed rail has greatly driven the optimization of the energy consumption structure in the rail sector, which has changed from coal-based in the past to electricity-based currently. Electricity consumption exceeded oil consumption for the first time in 2006 and became the largest fuel consumed by rails.

Can solar energy be used in China's Railway?

China's railway has been experiencing rapid growth recently. The achievement of solar energy for the increasing electricity consumption in the rail sector attracts significant attentions. In this paper, the available solar energy on the covered land and trackside land in the rail itself is assessed for further utilization.

How many electrified railways will China have in 2035?

With economic growth, the scale of electrified railways around the world is expanding. Especially in China, it is estimated that by 2035, the Chinese national railway network will reach approximately 200,000 km, of which the proportion of electrified railways will reach 90% .

How much electricity does a rail system use?

In rail energy use, electricity constitutes 47%, amounting to 290 TWh. the global rail network is expected to expand to 2.1 million kilometers by 2050. Among these, China will account for a larger share of electrified rail developments with nearly half of the railway constructions between 2019 and 2050 .

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