

Russian energy storage equipment transformation project





Overview

Why is compressed hydrogen storage important in Russia?

In view of the widespread use of compressed hydrogen storage in Russia, the ease of its compression and the absence of the need for additional serious infrastructure for hydrogen reduction, the possibility of long storage time of hydrogen, it is this method that will be the most widespread in the country.

How is hydrogen transported and stored in Russia?

Smaller amounts of hydrogen are delivered to the customers in a compressed state and stored in steel cylinders or reservoirs. Currently, Russian companies and organizations process development in hydrogen transportation and storage in compressed (up to 700 bars, including polymer reservoirs), liquid and bound states.

What technology is used for hydrogen production in Russia?

The main technology for hydrogen production in Russia remains SMR: by using this technology more than 95 % of hydrogen is produced. At the same time, electrolyzers are present in many industries (oil refineries, power generation, hydrometeorology, microelectronics, food industry etc.).

How big is Russia's hydrogen industry?

The Russian hydrogen industry has existed for more than 100 years and is one of the biggest in the world. In 2021, hydrogen production of Russia exceeded 5 mln tons (the 5th place in the world after China (25 mln tons), USA and EU-27 (10 mln tons each), and India (6 mln tons)).



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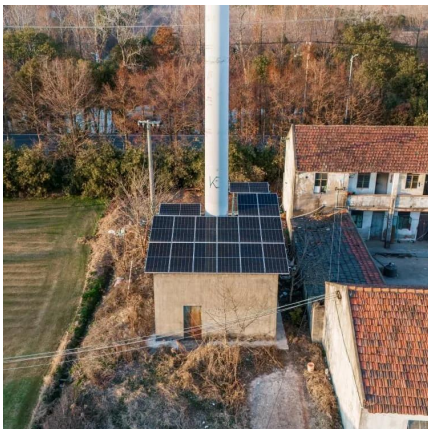


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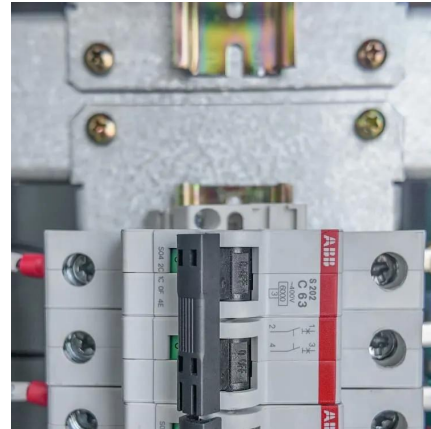


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The Russia energy storage system market is currently experiencing steady growth driven by increasing energy consumption, renewable energy integration, and grid modernization efforts.

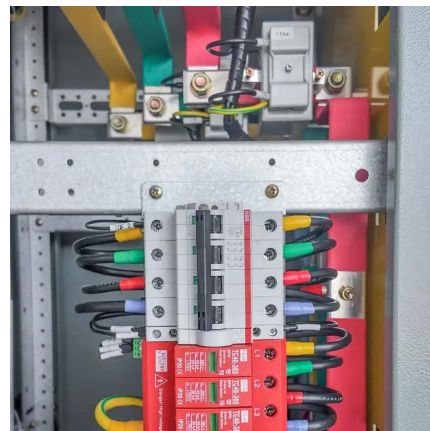


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