SolarTech Power Solutions

Russian industrial energy storage vehicle

Overview

Russian hydrogen industry exists more than 100 years and is one of the biggest in the world. In 2021 Russia produced more than 5 mln tons of hydrogen (the 5th place in the world after China, US, EU-27, India).

Will Russian energy storage firm Renera invest in EV batteries?

June 23, 2023: Russian energy storage firm Renera says a special investment contract providing incentives and financial backing for domestic production of batteries for EVs and stationary storage systems was signed at the St Petersburg International Economic Forum on June 16.

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)).

Does Russia use electrolyzers?

Even though most of the hydrogen in Russia is traditionally produced by SMR, power generation companies, oil and gas refineries also use electrolyzers (for

example, Moscow Oil Refinery of GazpromNeft or Stavrolen of LUKOIL).

What problems constrain Russian modern electrolyzers development?

Main problems that constrain Russian modern electrolyzers development are the absence of domestic polymer membranes (traditionally, soviet alkaline electrolyzers used asbestos-cardboard membranes), the absence of liquid cooling systems that prevent electrolyzers' low-potential heat using.

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