

# **Russia St Petersburg Energy Storage New Energy**





## Overview

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How many integrated power systems are there in Russia?

The seven integrated power systems of Russia's unified power system. The geographically isolated energy systems are Chukotka Autonomous Okrug, Kamchatka Territory, Sakhalin, and Magadan Oblast, Norilsk energy Districts of Taimyr and Nikolaev, western energy systems of Sakha (Yakutia) [Image courtesy of eclareon, Reproduced from Ref. 30].

Can Russia become a leading EV manufacturer?

As shown by the ongoing mass scale electric bus adoption in Moscow, Russia's automotive industry has in EVs powered by electricity stored in Li-ion batteries the first real opportunity to emerge as a leading automotive manufacturer refocusing production from ICEs to battery electric vehicles, so far mostly produced in China.

Will Russia supply lithium for electric cars?

Russia, in other words, is trying to secure supply of strategically important lithium to manufacture batteries on the multi-gigawatt-hour scale required for mass producing electric vehicles (a 1 GWh storage capacity is enough to equip 20 000 electric cars with a 50 kWh battery pack each).

When did Russia start using nuclear power?

By 1935, the output of electricity in Russia had reached 13.5 billion kWh from 2 billion kWh in 1913. 11 After World War II, Russia pioneered the use of nuclear power with the world's first nuclear power plant (a 5 MW reactor) located in Obninsk, about 100 km southwest of Moscow, connected to the power grid in June 1954. 12



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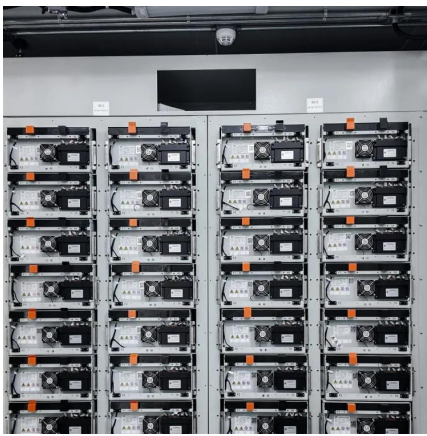
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