



## Russian energy storage projects included in regulations

How much renewable power will Russia have by 2030? The power (excluding large hydro) is just 6% by 2030. In January 2022, a Russian Ministry of Energy official announced plans to attain a 12.5% share of renewable power in the electricity sector by 2030 (again, excluding large hydro).<sup>57</sup> These levels are insignificant when compared to Russia's technical potential. How long will Russia's energy strategy last? Russia would remain almost unchanged until 2030. In 2022, the Ministry of Energy announced plans to revise the energy strategy by mid-2023, extending its horizon to 2050.<sup>34</sup> Nevertheless, renewable energy's role in the forthcoming strategy remains unclear, as conflict with Ukraine, the United States. How many GW of electricity in Russia in 2022? Electricity generation capacity was 283 GW in 2021. See US Energy Information Agency, "Russia," January 17, 2022, <http://www.eia.doe.gov/country/russia/>. Renewables in Electricity Sector: Recent Trends. FIGURE 1. Installed renewable capacity in Russia and Foreign Countries" (in Russian), December 2021, <https://hydrex.ru/>. Does energy storage need a regulatory framework? Our review demonstrates that no jurisdiction currently provides a comprehensive regulatory framework for energy storage, with the majority of jurisdictions currently allowing storage to be defined as "generation" for the purposes of licensing and other regulatory requirements. What are the different types of energy storage projects? Energy storage may be used in a range of project types, including standalone, co-located, and behind-the-meter projects. Standalone energy storage projects are increasingly utility-scale installations. For example, a battery array can provide a range of services, including ancillary services, to the system operator or network owner. Does Russia need a hydrogen policy? It has without policies to support renewable power. Though at the center of Russia's hydrogen strategy prior to the invasion of Ukraine, hydrogen exports will face similar challenges as well as even greater technological obstacles, in that Russia's hydrogen technologies are even less mature. Currently, there is no specific regulation or programme to support energy storage in Russia. Russian Energy Ministry prepares bill on electrical storage Dec 5, 2021, <https://www.rg.ru/>; "Electrical energy storage systems are also used in a number of pilot projects (for example, the Burzyansky solar power plant with an 8 MWh electrical energy storage system, <https://www.rg.ru/>). Frequently asked questions on the energy financing Aug 17, 2021, <https://www.rg.ru/>; The prohibition in Article 3a of Council Regulation 833/2014 refers to all new investment across the Russian energy sector and also imposes restrictions on further investment. How is Russia's energy storage technology? Jun 13, 2021, <https://www.rg.ru/>; The Russian energy storage sector showcases a multitude of developments, driven by the nation's need to optimize its vast natural resources and improve energy security. Innovative technologies, Current Experience and Prospects for the Use of Energy Storage Apr 10, 2021, <https://www.rg.ru/>; Power systems around the world actively use electrical energy storage systems (ESS). Currently, Russia is developing normative and technical documentation with the Ministry of Energy. Russia's Renewable Energy: Prospects in an Era of Transition Feb 24, 2021, <https://www.rg.ru/>; Russia's government is seeking "technological sovereignty" in the energy sector and other areas, including in renewable power technologies. This means domestic production. Energy storage regulation Apr 24, 2021, <https://www.rg.ru/>; Energy storage has become an area of focus in many jurisdictions across the globe due to its potential to offer a wide range of benefits to electricity systems. This Expert Guide



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brings together analysis Russian renewable energy | 15 | Regulations and outcomesThe chapter presents Russian renewable-energy regulation in terms of existing and planned renewable energy projects. It discussed the results of the capacity auctions, followed by some CMS Guide to Energy Storage: Russia Sep 1, &#x2013;1. What electricity storage projects have been commissioned in your jurisdiction to date? There are two hydroelectric pumped storage power plants in operation in Russia: the Latest Battery Energy Storage System (BESS) Projects in Russia 5 days ago&#x2013;Search all the latest and upcoming battery energy storage system (BESS) projects, bids, RFPs, ICBs, tenders, government contracts, and awards in Russia with our Policy and Regulation for Energy Storage Systems in Energy Session Materials Policy and Regulation for Energy Storage Systems in Energy Markets. A Case Study of Russia Ref C5-10603\_2022 o This publication is free only for CIGRE members Russian Energy Ministry prepares bill on electrical storage Dec 5, &#x2013;"Electrical energy storage systems are also used in a number of pilot projects (for example, the Burzyansky solar power plant with an 8 MWh electrical energy storage system, How is Russia's energy storage technology? | NenPowerJun 13, &#x2013;The Russia n energy storage sector showcases a multitude of developments, driven by the nation's need to optimize its vast natural resources and improve energy security. Energy storage regulation Apr 24, &#x2013;Energy storage has become an area of focus in many jurisdictions across the globe due to its potential to offer a wide range of benefits to electricity systems. This Expert Guide Policy and Regulation for Energy Storage Systems in Energy Session Materials Policy and Regulation for Energy Storage Systems in Energy Markets. A Case Study of Russia Ref C5-10603\_2022 o This publication is free only for CIGRE members

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