

# RUSSIA ENERGY BOX

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How is energy used in Russia? Total energy supply (TES) includes all the energy produced in or imported to a country, minus that which is exported or stored. It represents all the energy required to supply end users in the country.



What is Russia's energy strategy? Russia's energy strategy prioritizes self-sufficiency in gasoline, so it tends to export minimal volumes. However, Russian refiners produced roughly double the diesel needed to satisfy domestic demand, and typically exported half their annual production, much of it to European markets.



How much electricity does Russia generate? Russia generated 44% of its electricity from natural gas, followed by 20% from nuclear, 19% from hydroelectric, and 15% from coal. Oil, other renewables, and other sources each represented less than 1% of Russia's electricity generation in 2021 and 2022.<sup>48</sup>



Is Russian hydro resource base economically feasible? Gross theoretical potential of the Russian hydro resource base is 2,295 TWh per year, of which 852 TWh is regarded as economically feasible. Most of this potential is located in Siberia and the Far East.



Which oil refinery supports Russia's domestic market? The Omsk refinery supports Russia's domestic market with an installed refining capacity of over 441,000 b/d of crude oil and a light petroleum product yield of 80%. Gazprom Russia's second-largest oil producer and third-largest refiner by capacity.<sup>21</sup>



How many hydropower plants are there in Russia? Hydropower accounts for about 20% of Russia's total electric power production. The country has 102 hydropower plants in operation, with RusHydro the world's second-largest hydroelectric power producer. Hydro generation (including

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pumped-storage output) in 2020 was 196 TWh, which represents 4.4% of world hydro electricity generation.

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The following entities were designated for "carrying on business in a sector of strategic significance to the Government of Russia. Red Box Energy Services Pte Ltd. EKO Shipping LLC, LLC Novatek Murmansk, LLC Modern ???



Overview. Russia was the world's second-highest dry natural gas producer and exporter, the third-highest crude oil and condensate producer, and the third-highest coal exporter in 2022. 1 Following Russia's full-scale invasion of Ukraine in 2022, a number of countries imposed sanctions on Russia, including targeted measures on Russia's energy sector. 2 In ???



Two and a half years into Russia's war in Ukraine, the Western effort to wean Europe off of Russian oil and gas and isolate the Kremlin has stalled. The E.U.'s much lauded energy transition



Singapore has refused to renew the visa of the US-born chief executive of heavy-duty shipping company Red Box Energy Services after the company was designated by the US Treasury for breaching

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The US blacklisted Red Box and its two heavylift vessels, the 28,900-dwt Audax and 28,800-dwt Puganax (both built 2016), in May, saying that it carried LNG modules for Russia's Arctic LNG 2 project.



Russia is using energy to enhance its influence in Central Asia and achieved notable successes in 2023, including building generating capacities, increasing electricity and hydrocarbon supplies to the region, and developing its transit potential to China. In this Q& A, the author discusses the different facets of Russia's strengthening energy



Amidst a perfect storm of conditions leading to increased gas prices and greater demand, Russia is leveraging its role as a major energy supplier to put pressure on Europe. As Benjamin Schmitt notes below, the crisis has been brewing due to "a colder-than-normal spring, calmer-than-normal summer (leading to a drop in electricity production from EU wind turbines), and an ???



Chinese investments in Russian Arctic energy projects are facing complications due to sanctions on Russia. Because of assembly requirements at Murmansk, a third Train 1 module shipped almost concurrently onboard the Red Box Energy Services vessel Audax via the Northern Sea Route, arriving in early February 2022 (fig. 9).



The Russian Energy Week Forum serves as a platform for them to work together in finding solutions for these issues, topics that are priorities for the development of the Russian and international fuel and energy industry. I wish all of the participants a productive discussion touching on all of the industry's strategically crucial topics."

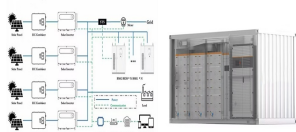
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energy since the outlook for gas demand in Europe ??? by far its most important export customer ??? is both sluggish and uncertain. China is looking for supplies of raw materials, in particular energy, to fuel its industrial development. Nevertheless, the Sino-Russian energy 2 Russia, China and the geopolitics of energy in Central Asia



The ASEAN Centre for Energy (ACE) participated in the 6 th Russian Energy Week (REW) and the 5 th Meeting of Network of ASEAN-Russia Think Tank (NARTT), contributing valuable insights into global energy transition strategies.. 6 th Russian Energy Week (REW) on 11-13 October 2023 . During the panel session titled "Scenarios of Global Energy ???



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Russia has consistently targeted Ukraine's energy facilities, forcing companies to constantly rebuild and go weeks without power. Clean energy has begun to replace damaged coal and gas power



The Russian Ministry of Energy has implemented measures to monitor and control oil production on a weekly basis, ensuring its production is reasonably close to OPEC+ agreed levels. Technically, the government ???

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Because of the Russian Federation's role as a key oil and gas exporter, the Russian energy sector is of key importance to the country's economic success, as well as to world energy markets. Reforms are essential to enable Russia's energy sector to keep pace with domestic energy demand growth in a period of strong GDP growth, while yet



In 2020-2021, in response to the COVID 19 pandemic, Russia has committed at least USD 5.18 billion to supporting different energy types through new or amended policies, according to official government sources and other publicly available information. These public money commitments include: At least USD 5.18 billion for unconditional fossil fuels through 14 policies (7 quantified ???



Audax transporting Novatek's LNG modules across the Arctic. (Source: Red Box Energy Services) Two ice-capable heavy lift vessels, Audax and Pugnax, departed China with new modules for Arctic LNG 2. The continued delivery of equipment highlights the challenge Western officials face in stopping Novatek from completing its latest project through sanctions.



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As part of its expanding sanctions against Russia, the Biden Administration on March 8, 2022, issued Executive Order 14066 ("EO 14066," see here) to bar imports into the United States of Russian crude oil, petroleum; petroleum distillates, liquefied natural gas, coal or coal products. EO 14066 also prohibits any new investment by U.S. persons in the Russian ???

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APPLICATION SCENARIOS



Around two years after the U.S. and Europe imposed sanctions on Russian energy, following the Russian invasion of Ukraine, Russia is still evading international sanctions by using shadow tankers



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