A-Core Container

Russian container power generation has low emissions

Overview

How can Russia boost low-carbon electricity generation?

To boost low-carbon electricity generation, Russia can pursue the expansion of existing nuclear facilities. Nuclear power is a major clean energy source in the country and can be further developed. Lessons can be drawn from regions where low-carbon energy is widely adopted.

Does Russia have low-carbon electricity?

Over time, Russia has seen various trends in its low-carbon electricity generation. The late 1980s witnessed significant growth in nuclear power, but the early 1990s were marked by notable declines, reflecting substantial challenges during that period.

How is Russia promoting EVs in the transport sector?

In the transport sector, Russia has taken steps to promote the production and purchase of EVs. As part of its Transport Strategy Until 2030, Russia has also proposed measures to reduce transport emissions through low-carbon infrastructure and alternative fuels.

Are emissions from transport still on the rise in Russia?

Emissions from transport are still on the rise in Russia. Only 9% of freight transport travelled by road in 2018, however, which is a much lower share than that of most G20 countries.

Does Russia have a nuclear power market?

Since 2015, nuclear generation in Russia has increased by 10 percent, and hydro by 25 percent, though their market share declined slightly. Wind and solar combined accounted for less than 1 percent of Russia’s power mix in 2024, the second-lowest share in the G20.

What percentage of Russia's electricity is clean?

Clean power made up 36 percent of the mix, mainly from hydro (17 percent) and nuclear (18 percent). Russia’s carbon intensity of electricity generation was 449 gCO2/kWh in 2024, slightly below the global average of 473 gCO2/kWh. Per capita electricity demand in Russia was 8.3 MWh, more than double the global average.

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