

What is Ukraine's main source of electricity?

Nuclear power is Ukraine's main source of electricity generation, totaling 52 TWh in 2023, and coal was the second-largest source, at 22 TWh (Table 1 and Figure 6). Ukraine has reported that half of its power-generating capacity has been disrupted due to Russian attacks on energy infrastructure, which resumed March 2024.

What does the IEA report say about Ukraine's energy security?

This analysis builds on the IEA's September 2024 report, *Ukraine's Energy Security and the Coming Winter*. It provides an update on the latest developments through October 2025 and proposes key actions that Ukraine and its partners can take to address urgent energy security vulnerabilities this winter and bolster longer-term energy resilience.

Did Russia attack Ukraine's energy system in 2022?

Hrynychuk, 28, opened the bakery 10 months after Russia launched its full-scale invasion in 2022. That winter was the first year Russia targeted Ukraine's energy system. Hrynychuk says they barely know what it is to work under "normal" conditions, but have never faced the challenges they do now.

Is Russia targeting Ukraine's energy infrastructure?

Russia has targeted Ukraine's energy infrastructure during each winter of its full-scale invasion, which began in February 2022. But this winter's campaign has proved larger, more sustained and more effective, according to Ukrainian officials. "Now their strategy is more aggressive and precise," Stupak said.

Ukrainians have learned to live without light or heating amid freezing winter temperatures as Russia strikes critical infrastructure, with daily life governed by rolling power blackouts.

As Ukraine prepares for the upcoming winter, it is crucial to develop a resilient next-generation electricity system. A resilient electricity supply is certainly critical for humanitarian reasons ...

Since Russia's invasion in February 2022, Ukraine has accelerated integration of its energy trade and infrastructure with Europe, moving away from its historical ties with Russia. This ...

While businesses were prepared for electricity cuts due to Russian missile and drone attacks on Ukraine's energy infrastructure, no one expected such a brutal winter.

Three Ukrainian nuclear power plants have mostly resumed electricity generation after a brief capacity reduction after Russian shelling. During the first week of December, electricity imports ...

Russia's winter strikes have focused on Ukraine's energy infrastructure. LONDON -- The cacophony of war has become familiar to the residents of Ukraine's major cities after nearly four ...

Russia carried out another combined overnight attack on Ukraine, using strategic aviation, cruise missiles, and

strike drones. Destruction, injuries, and large-scale emergency power outages ...

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The problem is that electricity generated by these surviving capacities cannot be evenly distributed across all of Ukraine. Due to the nature of any energy system in any country, uniform ...

These figures are based on primary energy consumption, given by the "substitution method". See our explainer on the different metrics used to measure energy for more information. How much energy ...

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