

Can Ukraine reduce reliance on fossil fuels?

By embracing energy efficiency improvements and electrification, Ukraine could dampen demand growth and achieve a significant decrease in energy intensity, of up to 60% by 2050. Decarbonization efforts across all sectors would be essential in reducing reliance on fossil fuels.

Does Ukraine need a new energy system?

The war in Ukraine, which has caused immense suffering and resulted in the destruction of critical infrastructure, demands urgent action to rebuild the country and its energy system. Today, Ukraine heavily depends on fossil fuels, which accounted for some 70% of its primary energy supply in 2020.

How important is Ukraine's energy sector?

Ukraine's air defences provided some protection, but the scale of the attack and the resulting disruption highlighted once again the vital strategic importance of Ukraine's energy sector, as well as the ever-present risks to the country's energy supply.

Where can we find Ukraine 4km solar resource data?

Ukraine 4-km solar resource data, available on the RE Data Explorer platform. Illustration by Billy Roberts, NREL. While U.S. technical support to Ukraine might not get the same level of attention as its defense support, these data sets are crucial for Ukrainians to envision and enact a clean energy transition for their country in a systemic way.

Is Russia targeting Ukraine's energy system?

Ukraine's energy system has been regularly targeted by Russia since its full-scale invasion in 2022, with attacks intensifying since the spring of 2024. The targeting of energy infrastructure has had wide-ranging consequences for the provision of energy to Ukrainian households and other consumers.

Will Ukraine become self-sufficient in terms of primary energy?

The report envisions a scenario of shift towards domestic renewables and low-emission technologies, which would make Ukraine self-sufficient in terms of primary energy, reaching 98% by mid-century. This transformation would not only contribute to energy security but also mitigate the impact of regional and global energy crises on Ukraine.

In partnership with USAID, the U.S. Department of Energy's National Renewable Energy Laboratory (NREL) is supporting deployment of renewable-generation-based ...

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In a world where renewable energy capacity grew by 50% globally last year, Ukraine has the space, skills, permitting regime and weather conditions to produce almost 19,000 TWh of solar and wind power a year - seven times more than Europe's current demand.

By prioritizing renewable energy solutions, Ukraine can not only rebuild its war-torn infrastructure and ensure its energy security, but also emerge as a global leader in the clean energy transition, inspiring a future powered by sustainability and peace, for itself and the world.

Ukraine's Energy Strategy until 2050 outlines investment opportunities amounting to US\$383 billion, with its focus on clean energy production and system resilience. Private sector involvement is being encouraged in renewable energy projects, smart grids and energy-efficient technologies.

This report describes the urgent challenges facing Ukraine's energy sector and outlines tangible actions that can be taken by Ukraine and its partners to address its immediate energy security vulnerabilities ahead of the winter, while bolstering long-term resilience.

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A transformative year for Ukraine's energy landscape. In the context of the ongoing conflict, the energy sector has become Ukraine's second-most critical sector, after defense. The government, together with donors and businesses, is pushing to deploy distributed generation, with a strategic focus on renewables and gas peakers.

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On August 13, 2024, the Cabinet Ministers of Ukraine (CMU) adopted important resolutions which will accelerate the deployment of renewable energy sources (RES) and distributed generation in Ukraine, namely:

1. National Renewable Energy Action Plan until 2030, which aims to increase the share of renewable energy



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to 27.1% of the gross final ...

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By embracing energy efficiency improvements and electrification, Ukraine could dampen demand growth and achieve a significant decrease in energy intensity, of up to 60% by 2050. Decarbonization efforts ...

6 · This roadmap from the IEA, Empowering Ukraine through a Decentralised Energy System, outlines a pathway to rebuild and modernise Ukraine's power sector amid ongoing attacks on its energy infrastructure. Since Russia's full-scale invasion of Ukraine in February 2022, nearly two-thirds of Ukraine's dispatchable power capacity has been occupied, ...

5 · The report finds that what are known as distributed energy resources can play a pivotal role in achieving Ukraine's 2030 energy goals. Though there are many uncertainties, it could meet these objectives by adding 24 GW of solar, 11 GW of wind and 6 GW of energy storage capacity this decade while maintaining surviving generation assets, based on new IEA modelling.

In partnership with USAID, the U.S. Department of Energy's National Renewable Energy Laboratory (NREL) is supporting deployment of renewable-generation-based microgrids that will enable Ukraine to increase its energy independence and resilience by integrating more renewables into its energy mix.

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