

Ukrainian communication base station hybrid energy assets



Overview

Is Ukraine making a 'strategic shift' toward Distributed Energy Resources?

Ukraine is making a “strategic shift” toward distributed energy resources. In the two and a half years since Russia invaded Ukraine, Ukraine’s energy system has been a regular target, with attacks on thermal and hydro assets, substations, and solar units.

Should Ukraine build a decentralized and diversified energy system?

The Ukrainian government (2023) recently declared that building a decentralized and diversified energy system—one that is more resilient against military attacks or natural disasters and can enhance energy security while facilitating the transition to renewable energy sources (RES)—will be a key priority.

Does Ukraine need a long-term energy system?

More than ever, Ukraine needs support to transition towards a long-term energy system that is resilient, flexible and secure. The EU has the expertise, the ability and the will to help make that happen. Ukraine's energy systems have suffered significant damage since the full-scale invasion of 2022.

Can a decentralised electricity system empower Ukraine?

Hence, in context of the report Empowering Ukraine Through a Decentralised Electricity System, a pioneering, detailed and bottom-up approach was developed to create a new high-resolution dataset of capacity and generation potential for Ukraine.

How has Ukraine's energy system changed since the invasion of 2022?

Ukraine's energy systems have suffered significant damage since the full-scale invasion of 2022. As of spring 2024, two thirds of the country's dispatchable power generation capacity has fallen under occupation, been damaged or destroyed. This has been accompanied by a coordinated

destruction of the grid network.

How can Ukraine build a more resilient and modern power system?

The roadmap also lays out seven key policy recommendations for Ukraine to build a more resilient and modern power system by establishing a vision for decentralisation and by strengthening regulatory frameworks, coordination mechanisms, electricity markets and relevant technical requirements.

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