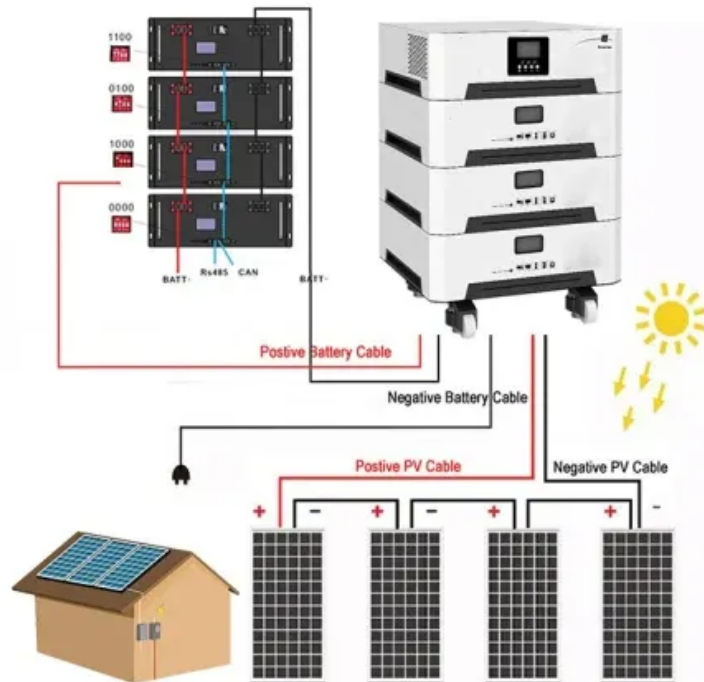


SolarMax Energy Systems

Ukraine container power generation



Overview

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.

What kind of energy does Ukraine need?

Ukraine heavily depends on imported oil, coal and natural gas. Before the war, Ukraine's energy needs were met through a mix of domestic production and imports. According to the International Energy Agency (IEA), Ukraine's total energy supply in 2022 comprised coal (21.7%), nuclear (26.5%), natural gas (25.1%) and oil (18.6%).

Should Ukraine embrace decentralisation and microgrids?

As Ukraine rebuilds its energy infrastructure, embracing decentralisation and microgrids is crucial for enhancing energy security, resilience and independence. However, overcoming legislative and regulatory barriers is

essential for unlocking the full potential of these technologies.

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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The researchers created high-resolution maps of Ukraine's various regions, showing the areas in which power generation from solar and wind energy is most favourable.

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