

## SolarTech Power Solutions

# Ukraine Odessa Microgrid Energy Storage System



## Overview

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The largest energy storage system in Ukraine, with a capacity of 200 MW, has become operational. The project was built by DTEK in partnership with the American company Fluence Energy B.V. How can microgrids improve energy security in Ukraine?

**Grid monitoring and control:** Microgrids are equipped with advanced monitoring and control systems that can detect anomalies and quickly restore power, helping to identify and mitigate the effects of attacks. Several Ukrainian cities are already taking steps to implement decentralized energy solutions:.

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.

Why is Ukraine investing €140 million in energy storage?

The €140 million total investment aims to enhance power grid stability, bolstering Ukraine's energy security and independence. The project will be the biggest operational energy storage portfolio in Eastern Europe at the time of commissioning.

What is a microgrid & how does it work?

**Grid resilience:** Microgrids incorporate renewable energy sources, energy storage systems and advanced control systems, making them more resilient to outages caused by physical attacks, including rocket attacks.

How can microgrids improve energy security?

Microgrids can enhance the resilience and security of power systems, protecting them from various threats, including terrorist attacks. These small-

scale, localized energy systems can operate independently or in conjunction with the main grid. Microgrids can contribute to energy security in several ways:.

What are the benefits of a microgrid?

Energy storage: Microgrids can include energy storage systems, providing a buffer against sudden disruptions. Grid monitoring and control: Microgrids are equipped with advanced monitoring and control systems that can detect anomalies and quickly restore power, helping to identify and mitigate the effects of attacks.

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