

## **PDEOZE PowerContainer**

# **Ukraine s 1GW energy storage power station**



## Overview

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DTEK, Ukraine's biggest private energy company, has begun final commissioning of the country's largest battery energy storage project, the company announced on July 10 at the Ukraine Recovery Conference (URC) in Rome. 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 Ukraine's energy source?

Half of Ukraine's installed capacity came from thermal power plants (TPPs), with the remainder distributed between nuclear power plants (NPPs), hydropower and pumped storage plants (HPPs), and renewable energy sources such as wind, solar, and biomass. Ukraine's energy generation by type and share in the system. Source: Energy Community.

How much electricity will Kyiv's power plant store?

Together, they will store up to 400 MWh of electricity - enough to supply two hours of power to 600,000 homes (equivalent to roughly half the households in Kyiv).

How much energy did Ukraine produce before the invasion?

An FT report, published at the beginning of June, stated that Ukraine's energy production prior to the full-scale invasion was 55 GW and dropped below 20 GW in recent months, citing Ukrainian officials.

How much power does Ukraine have?

For context, a single GW is enough to power approximately 750,000 homes simultaneously in the US. Ukraine lost nine times that within three months. Pre-war capacity Before Russia launched its full-scale invasion in February 2022,

Ukraine had 56 GW of installed capacity – sometimes called nameplate capacity – and 36 GW of actual capacity.

Do Ukrainian businesses use gas turbines?

For electricity only, businesses in Ukraine are also installing gas turbine power plants and gas piston power plants, Orlova added. Kudrytskyi explained that companies also use generators – both gas and diesel – to provide backup energy.

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Fluence Energy, in partnership with DTEK Group, has successfully completed Ukraine's largest battery-based energy storage project, with a capacity of 200 MW, in under six months. This project consists of six ...

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