

## SolarTech Power Solutions

# Ukrainian desert solar panels



- |   |                           |    |                           |
|---|---------------------------|----|---------------------------|
| 1 | PCS Module                | 6  | OPV2 side circuit breaker |
| 2 | Battery room              | 7  | High Volt Box             |
| 3 | Grid side circuit breaker | 8  | BAT side circuit breaker  |
| 4 | Load side circuit breaker | 9  | LCD display screen        |
| 5 | OPV1 side circuit breaker | 10 | MPPT                      |



## Overview

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How much solar power does Ukraine have in 2024?

Figures from the Solar Energy Association of Ukraine (SEAU) earlier this year showed that the country added around 850MW of solar PV capacity in 2024, the majority of which came from self-consumption systems installed by businesses. It's "become a trend", Semenyshyn says.

Can solar power plants help Ukrainian society?

"Solar power plants can help Ukrainian society," Sokolovskyi says, by giving energy independence to private citizens and businesses. Moreover, support for critical infrastructure like hospitals, clinics and schools – the kind of work Semenyshyn's Repower Ukraine does – often comes from PV and energy storage combined.

Why are Ukrainian businesses turning to self-consumption solar PV systems?

Following three years of bombardments and damage to its energy infrastructure, Ukrainian businesses are turning to self-consumption solar PV systems to keep the lights on.

Are solar panels sustainable in the desert?

Desert environments pose significant challenges for solar installations due to frequent dust accumulation on panels, which can reduce energy yield by up to 30%. Natural dust mitigation strategies have emerged as sustainable solutions that complement the desert ecosystem while maintaining optimal panel performance.

Is Ukraine a good place to invest in solar power?

Ukraine has a range of incentives designed to encourage investment in solar power facilities. Since the country is one of the top locations for solar panel installation, this market holds a great deal of potential for any developer looking to enter the industry. Gudzovka has a peak capacity of 24.3 MW,

which is enough to power around 23,000 homes.

Can solar panels be installed in deserts?

Apart from environmental concerns, practical issues also hinder the deployment of solar panels in deserts. Sandstorms are prevalent in these regions; when dust accumulates on panel surfaces, it leads to a rapid decline in efficiency.

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