

How many solar power plants were installed in Ukraine in 2023? As of early 2023, renewable energy capacity stood at 8.7 GW. Despite the war's challenges, in 2023, DTEK Networks connected over 1,400 new RES facilities to the system, commissioning 182.3 MW of wind and approximately 500 MW of solar power plants. In 2023, Ukrainian businesses invested around USD 150 mln in solar energy. Does Ukraine have a solar power plant? Ukraine's annual solar energy volume is higher than that of Germany, one of the industry leaders. From 2015 to 2023, solar energy capacity increased nearly fivefold. As of 2023, solar power plants account for about 75% of "green" energy production in Ukraine (excluding large hydropower plants). How many wind power plants are there in Ukraine? Before the full-scale invasion, Ukraine had 34 wind power plants with 699 wind turbines generating electricity at an average capacity of 3.5 MW. In 2023, the most significant new power plant commissioned was DTEK's Tiligul wind power plant in the Mykolaiv region, with a generating capacity of 78 MW. Why is nuclear energy important in Ukraine? Globally, among 33 countries, Ukraine ranks sixth in nuclear power generation, seventh in the number of nuclear reactors, and fifth in Europe. This highlights the importance and efficiency of nuclear energy in the country's energy sector, as well as its critical role in ensuring a stable and reliable energy supply. Why should Ukraine invest in bioenergy? Investing in bioenergy also supports economic growth, energy independence, and efficient use of agricultural resources. Ukraine's hydropower sector has suffered significant losses due to military aggression, totaling approximately USD 3 bln. Around 45% of hydropower capacities were destroyed. In 2023, the Kakhovka HPP was destroyed. How much solar insolation is needed in Ukraine? Solar insolation in Ukraine ranges from 1,500 to 2,500 kWh/m<sup>2</sup>, making the entire country suitable for solar power plant deployment. The southern regions of the country are optimal for operation. Approximately half of all solar power plants are concentrated in six regions: Ivano-Frankivsk, Dnipropetrovsk, Vinnytsia, Khmelnytskyi, Kyiv, and Mykolaiv. Ukraine launches solar PV and wind power auctions as part of Dec 31, 2023; Ukraine takes a major step toward a sustainable and resilient energy future with the launch of two renewable energy auctions. The solar PV auction under the premium communication base station wind and solar complementary communication The wind-solar-diesel hybrid power supply system of the communication base station is composed of a wind turbine, a solar cell module, an integrated controller for hybrid energy Renewable energy Oct 22, 2023; Alternative energy Given Ukraine's high average wind speed, significant solar energy potential, and increasing volume of agricultural waste, the country's renewable energy sector has substantial growth potential. GENERAL PROCUREMENT NOTICE Sep 25, 2023; The project aims to provide transportable off-grid solar power stations to serve as backup renewable energy source during blackouts for the following public Kyivstar, Vodafone Ukraine and lifecell launched SPP pilot projects Dec 19, 2023; This year, Kyivstar, Vodafone Ukraine, and lifecell launched pilot projects to install solar power plants (SPPs) at their base stations. Forbes writes about this with reference to the Deployment of communication base stations and wind-solar complementary A technology for communication base stations and energy-saving systems, applied in the field of energy-saving

