

SolarInnovate Energy Solutions

Solar energy in Moldova



Overview

Moldova expanded its solar capacity to 344 MW by September 2024, up from 185 MW in 2023, according to the National Center for Sustainable Energy (CNED). How many MW of wind and solar energy is installed in Moldova?

, deployment of wind and solar energy in Moldova has been very slow. As of 2022, only 97.9 MW of renewable capacity for electricity generation was installed. Figure 1. Installed electricity generation capacity by type. 4 MW / 13% Non-renewable: 441.4 MW / 79% Renewable Energy Potential The Republic of Moldova features great potential.

What is Moldova's energy consumption?

Transport sector is the second-largest energy consumer (around 0.7 Mtoe) and the main driver in oil consumption growth. Renewables represent 20% of Moldova's energy mix, consisting almost fully of solid biofuels (19% in 2018). 6% of electricity generation comes from renewable sources (hydro, wind, solar PV).

What is the main energy source in Moldova?

Natural gas accounts for more than half of Moldova's total primary energy supply (53% in 2018), oil roughly a quarter (23% in 2018) and solid biomass one-fifth (19% in 2018). Most natural gas is used for electricity and heat generation, 3 whereas oil is the most important energy source for final consumers.

Where does Moldova get its electricity from?

Moldavskaya GRES (MGRES) in the separatist region of Transnistria supplies the vast majority of the remaining 80 percent of electricity. Moldova also imports electricity from Ukraine and Romania. For years Moldova's natural gas consumption almost exclusively relied on Russian gas imports.

Does Moldova rely on Russian energy?

With few natural energy resources, Moldova imports almost all of its energy supplies from Russia and Ukraine. Moldova's dependence on Russian energy is underscored by a more than \$6 billion debt to Russian natural gas supplier Gazprom, largely the result of unreimbursed natural gas consumption in the breakaway region of Transnistria.

What was Moldova's primary energy supply in 2018?

The primary energy supply in 2018 was about half natural gas, a quarter oil, and solid biomass at one-fifth. Renewable energy has expanded rapidly, and Moldova is seeking to diversify its energy sources and cease purchasing from Russia.

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Solar power plants from UAB Solet and SRL Oguzenergy launched in Moldova

Aug 5, 2025 · Six institutions located in Moldova, including lyceums, a cultural center and hospitals, have already started using solar power plants installed by UAB Solet and SRL ...

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Moldova Joins International Solar Alliance as 107th Member, ...

Aug 19, 2025 · "With Moldova's membership, we take another step forward in advancing our mission to make solar energy accessible, affordable, and sustainable worldwide," the alliance ...

Moldova targets 30% renewable electricity consumption by ...

Sep 5, 2024 · Iqony Sustainable Energy's Bacioi village solar plant has a capacity of 1MW. Image: Iqony Sustainable Energy. The government of Moldova has set a target to account for at least ...



Situation of the today's Energy and Transport systems of ...

3 days ago · Status quo implies that natural gas fired power plants will dominate the mix until 2040. However, to attain net-zero by 2050, the renewable energy capacity in the Republic of ...

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