

What is Moldova's energy self-sufficiency?

Moldova's energy self-sufficiency is among the lowest in the world: only around 25% of its energy demand is covered by domestic production, consisting almost entirely of solid biomass and variable renewable energy sources.

Does Moldova have a potential for wind & solar PV?

Though it is estimated that Moldova has significant technical potential for wind and solar PV (IRENA, 2019), by the end of 2020, only 72.91 MW had been realised.

Is Moldova a member of the Energy Community?

In 2010, the Republic of Moldova (hereafter "Moldova") became a full-fledged member of the Energy Community, which implied a commitment to adopt core European Union (EU) energy legislation. This has been reflected in its National Energy Strategy (NES) for 2030 which has three key objectives:

Does Moldova have a good energy sector?

Moldova is also on the right path to developing a sound institutional structure in the energy sector, informed by better statistical data. The National Bureau of Statistics (NBS) is commended for its efforts to improve energy data collection and reporting.

What is the energy supply of Republic of Moldova?

ENERGY PROFILE Republic of Moldova ENERGY PROFILE Total Energy Supply (TES) 2015 2020
 Non-renewable (TJ) 80 152 86 617 Renewable (TJ) 29 007 29 903 Total (TJ) 109 159 116 521 Renewable
 share (%) 27 26 Growth in TES 2015-20 2019-20 Non-renewable (%) +8.1 -3.8 Renewable (%) +3.1 +0.3
 Total (%) +6.7 -2.8 Primary energy trade 2015 2020

What drives the energy policy agenda of the Republic of Moldova (Moldova)?

The energy policy agenda of the Republic of Moldova (Moldova) is driven by several interrelated factors. The first key driver is high dependence on imports from limited sources and subsequent energy security considerations.

Specifically for Moldova, country factsheet has been elaborated, including the information on solar resource and PV power potential country statistics, seasonal electricity generation variations, LCOE estimates and cross-correlation with the relevant socio-economic indicators.

Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity (kWh/kWp/yr). The bar chart shows the proportion of a country's land area in each of these classes and the global distribution of land area across the classes (for comparison).

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Wind Solar Hydro Biomas Energy, in GWh Technical potential for e-RES - Energy RES contribute approximately 3% to Moldova's electricity consumption, with wind, solar and hydropower being the main sources. Biomass is the most developed renewable sector, primarily used for heating purposes, and the country has a technical potential of 65,029 GWh for

A 168 MW cap on the development of renewable energy capacity (mainly wind and solar PV plants), which was put in place in 2018, was updated in December 2021 for the period up to 2025, raising the maximum capacity to be supported by promotion mechanisms tentatively to 460 MW. The country plans to install an additional 400 MW.

The Republic of Moldova has committed to increase by the year 2030 the share of electric energy produced from renewables sources up to 30% from the consumption of electric energy. The target is...

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Moldova wants to increase the share of renewable energy production to a minimum of 30 percent of electricity consumption by 2030. Additionally, Moldovan authorities have proposed reducing greenhouse gas emissions by approximately 70 percent by 2030 compared to 1990 levels.

By 2050, the Republic of Moldova has set itself the target that greenhouse gas emissions will be fully offset by the absorption of greenhouse gases. Renewable energy will thus help mitigate global warming.

Though it is estimated that Moldova has significant technical potential for wind and solar PV (IRENA, 2019), by the end of 2020, only 72.91 MW had been realised. All power systems have inherent flexibility which allows lower shares of variable renewable energy (VRE), namely wind and solar PV, to be integrated without any noticeable impact on ...

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