


# Moldova has several hydrogen energy sites with a total capacity of 1.2MW

What is the main source of energy in the Republic of Moldova? In the reference scenario, natural gas, primarily imported from the Russian Federation, remains the main component of the Republic of Moldova's generation mix accounting for over 30% and followed by oil. Will the Republic of Moldova rely on fossil fuels? In this case, the Republic of Moldova will remain dependent on the import of fossil fuels, despite its vast renewable energy potential. In such case the vulnerabilities of the energy system of the Republic of Moldova are expected to continue over the long run. Why is Moldova a low energy country? The Republic of Moldova's low energy self-sufficiency, covering only about 21% of its energy needs domestically, makes it heavily reliant on imports, particularly from the Russian Federation for natural gas and Romania for oil products. How much electricity does Moldova consume? The total electricity consumption in Moldova was 3.8 TWh in , which was up 10% from its level in , with the majority of consumption from the residential sector (45%). Residential consumption grew by 14% between and , which is considerably less than the global average growth for the same period, which was over 20%. How important is Moldova's cross-border power system? Geographically positioned between Romania and Ukraine, the cross-border power system of the Republic of Moldova is critical for regional energy security and regional integration with the European and Moldova-Ukraine energy markets. Does Moldova have a power grid? Moldova's electricity grid was predominantly built in the time of the Soviet Union, making it relatively old and inefficient. It is synchronously interconnected with Ukraine's Integrated Power System (IPS) and, in turn, Russia's Unified Power System (UPS) in the northern and south-eastern parts of the grid. Low Carbon Hydrogen Economy in Moldova Due to the low installed capacity of renewables in Moldova, its small size, and its reliance on oil imports for energy demand, Moldova is unlikely to develop a hydrogen economy in the short to medium term. Situation of the today's Energy and Transport systems of While today's final energy mix in the Republic of Moldova still heavily depends on fossil fuels and biomass, more ambitious climate mitigation policies are expected to lead to greater energy efficiency. Hydrogen Energy in the Republic of Moldova Evaluating and identifying the energy potential of renewable sources (solar and wind) across different Moldovan regions and cross-border territories, aligning with European standards. ENERGY PROFILE Republic of Moldova Indicators of renewable resource potential 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 Hydrogen project development opportunities discussed at The Ministry of Energy is considering opportunities to develop hydrogen projects. As the European Hydrogen Strategy indicates, this fuel is a possible replacement for natural gas. Green Hydrogen Energy in the Republic of Moldova: Industry Participants also explored the possibilities of utilizing renewable energy sources in Moldova and the potential for repurposing existing energy infrastructure for hydrogen production. Status-quo of Hydrogen Utilisation in NG COM Member A possible near future development could be the signing of a memorandum between Romania and Republic of Moldova, involving technical cooperation for the future use of blended natural gas. Context of renewables in Moldova's electricity sector According to an analysis of technical potential for RE



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