

SolarInnovate Energy Solutions

How many energy storage power stations are being built in North Macedonia



Overview

How does North Macedonia generate electricity?

North Macedonia has historically relied on hydropower for a significant portion of its electricity generation. The country has utilized its rivers to develop hydropower plants. There have been also efforts to harness wind energy, and several wind projects have been proposed or are under development.

What is the main source of energy in North-Macedonia?

In the year 2022, the primary source of energy in North-Macedonia, as reflected in the country's total energy supply, was oil, accounting for 45% of the total. This was followed by coal, which constituted 32% of the total energy supply. Coal accounted for 47% of electricity generation, followed by hydropower with 23% and natural gas (17%).

How to increase energy storage and system flexibility in Macedonia?

Furthermore, in order to increase the energy storage and system flexibility, among top priorities is the construction of pumped-storage hydro power plant Chebren. The objective is up to 2028 this power plant to be commissioned. The natural gas market in Macedonia is liberalized starting from 2015.

How many photovoltaic power plants will be built in Macedonia?

The first public announcement was intended for PV plants that will be built on land owned by the Republic of Northern Macedonia. The total installed capacity of photovoltaic power plants, for which a premium was awarded with this public announcement, is 35 MW, distributed to 11 photovoltaic power plants.

What if North Macedonia used its technical potential?

As we can see, if North Macedonia would use its entire technical potential, it would increase the generating power by 321%. North Macedonia has calculated a potential emission reduction of 30% by 2030. Greenhouse gas

emissions in N. Macedonia are in 2016 around 11Mtons of CO2 and in energy sector 7,66Mtons of CO2 equivalent.

How much electricity does Macedonia have?

In 2018, the electricity entered in the Macedonian power system from the neighboring countries was 4,145 GWh, while in 2019 it is increased to 4,733 GWh.

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