Monaco wind and solar energy

Onshore wind: Potential wind power density (W/m2) is shown in the seven classes used by NREL, measured at a height of 100m. The bar chart shows the distribution of the country"s land area in each of these classes compared to the global distribution of wind resources. Areas in the third class or above are considered to be a good wind resource.

The Company"s mission is to seek investment and development opportunities in renewable energy production projects abroad. In line with this objective, Monaco Energies Renouvelables has just acquired eight photovoltaic parks, with a total production capacity of 39 MWpeak, located in seven Departments in the south of France.

Renewable energy here is the sum of hydropower, wind, solar, geothermal, modern biomass and wave and tidal energy. Traditional biomass - the burning of charcoal, crop waste, and other organic matter - is not included. This can be an important energy source in lower-income settings.

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The wind farms will be completed in the coming months, and the turbines should be connected to the public grid in France, then officially launched between December 2020 and June 2021. With 10 solar facilities and three new wind farms, M.E.R. has secured control of 75 MW of renewable energy, equating to 25% of the Principality's consumption.

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The Government is constantly exploring opportunities to develop new types of renewable energy in Monaco, for example wind power adapted to the urban environment, or wave energy. While their potential in Monaco remains to be proven, perhaps we will see new systems in future as research and development progresses here and around the world!

In Monaco, it is possible to capture the energy of the sun in two ways: using photovoltaic panels, which



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transform sunlight into electricity, and with thermal panels, which use the energy produced by the sun"s rays to heat water.

Green electricity purchased in the Principality of Monaco accounts for around 75% of total consumption. Green electricity is any electricity produced from a renewable energy source. This currently includes: solar energy (including photovoltaic and thermal), wind energy, tidal energy, wave energy, hydroelectric energy, geothermal energy and biomass.

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From seawater heat pumps to solar power, these are resources that are not easily depleted within our lifetime and Monaco looks to become a more green country. Renewable energy allows for better energy efficiency and reduces greenhouse gas emissions, which in turn helps with combating changing weather patterns.

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