

# 50MW Montenegrin PV Solar Photovoltaic Power Plant





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Montenegro is a small country located in Southeastern Europe with a population of just over 600,000 people. Despite its size, the country is quickly becoming a leader in renewable energy production, particularly in the area of photovoltaic (PV) technology.

Montenegro's abundant sunshine and mountainous terrain make it an ideal location for solar energy production. The country receives an average of 2,500 hours of sunlight per year, making it one of the sunniest places in Europe. This has allowed Montenegro to harness the power of the sun through the installation of PV panels across the country.

One of the largest PV projects in Montenegro is the Briska Gora solar park, located near the town of Ulcinj. This 250 MW facility is expected to produce over 400 GWh of electricity per year, which is enough to power 100,000 homes. The project is a joint effort between Montenegro's government and private investors, who see the potential for solar energy to reduce the country's reliance on fossil fuels and create a more sustainable energy future.

In addition to large-scale projects like Briska Gora, Montenegro is also promoting the use of PV technology on a smaller scale. The country offers incentives for homeowners and businesses to install solar panels on their properties, including tax breaks and subsidies for the cost of equipment. This has led to a growth in the number of rooftop solar installations across Montenegro, further increasing the country's solar energy capacity.

Montenegro's commitment to renewable energy extends beyond just solar power. The country has set a goal to generate 33% of its electricity from renewable sources by 2020, with plans to increase that to 36.5% by 2030. This includes not only solar energy but also wind, hydropower, and biomass.

### Keypoints

A project for the construction of a network solar power plant (SPP) in Montenegro for the sale of electricity to a centralized network without intermediate storage is being considered. The implementation of the Project is planned to stimulate the development of solar energy in Montenegro and the transition to non-hydrocarbon renewable green energy sources.

The main scenario for the implementation of the Project is with the use of Chinese-made solar panels, with subsidies from EKO FOND MONTENEGRO, with a standard tariff (about \$110 per MWh).

### Italy-Montenegro Grid Connection

### Key Data

GROSS REVENUE

\$0

EBITDA

\$0

BUSINESS TYPE

Renewable Energy

REAL ESTATE

TBD

COUNTRY

Montenegro

BUSINESS ID

L#20240651

Planned installed capacity	50 MW	
The area of land for construction	600 000 sq.m. (60 ha)	
Type of installation of solar panels	Fixed	
Type of solar panels	Multicrystalline	
Number of solar panels	90909	
Maximum declared power of the panels	550 Wp	
Maximum capacity of solar power plants	50000.5 KWp	
Inverters	10 central inverters in a block with a transformer (110 kV)	
Maximum inverter power	5060 kW	
Inverter Specifications	Total power Sng (kVA)	N/A
	Specified voltage Ung (kV)	N/A
	Указанный ток Ing (A) Impp	N/A
	Пусковой ток Io (A)	N/A
	Generator power factor (cos a)	1
	Nominal frequency (Hz)	50
Efficiency of solar panels	22,70%	
Installation angle of solar panels	42	
Total energy output	70 200 MWh/year	
Specific energy generation	1404 kWh/year	
Unit cost (excluding VAT 7% and subsidies 20%)	505 EUR / 1 kW peak	
Total cost (excluding VAT 7% and subsidies 20%)	25 250 000 EUR	
Project IRR	25%	
Investor's IRR		
Investor's NPV (Net Cash Flow)	82 302 799 EUR	
The total cost of energy produced over 30 years (at a tariff of 110 euros / 1 MWh)	231 660 000 EUR	
Total income for 30 years (excluding VAT and income tax) EBITDA	206 410 000 EUR	

## Map data

Per year ▾

Direct normal irradiation	DNI	<b>1508.5</b> kWh/m <sup>2</sup> ▾
Global horizontal irradiation	GHI	<b>1476.3</b> kWh/m <sup>2</sup> ▾
Diffuse horizontal irradiation	DIF	<b>604.0</b> kWh/m <sup>2</sup> ▾
Global tilted irradiation at optimum angle	GTI opta	<b>1735.6</b> kWh/m <sup>2</sup> ▾
Optimum tilt of PV modules	OPTA	<b>36 / 180</b> °
Air temperature	TEMP	<b>14.8</b> °C ▾
Terrain elevation	ELE	<b>183</b> m ▾

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