

# Usina de energia solar fotovoltaica montenegrina de 50 MW



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Montenegro é um pequeno país localizado no sudeste da Europa, com uma população de pouco mais de 600.000 pessoas. Apesar de seu tamanho, o país está se tornando rapidamente um líder na produção de energia renovável, especialmente na área de tecnologia fotovoltaica (PV).

O sol abundante e o terreno montanhoso de Montenegro o tornam um local ideal para a produção de energia solar. O país recebe uma média de 2.500 horas de luz solar por ano, o que o torna um dos lugares mais ensolarados da Europa. Isso permitiu que Montenegro aproveitasse a energia do sol por meio da instalação de painéis fotovoltaicos em todo o país.

Um dos maiores projetos fotovoltaicos em Montenegro é o parque solar Briska Gora, localizado próximo à cidade de Ulcinj. Espera-se que essa instalação de 250 MW produza mais de 400 GWh de eletricidade por ano, o que é suficiente para abastecer 100.000 residências. O projeto é um esforço conjunto entre o governo de Montenegro e investidores privados, que veem o potencial da energia solar para reduzir a dependência do país de combustíveis fósseis e criar um futuro energético mais sustentável.

Além de projetos de grande escala como Briska Gora, Montenegro também está promovendo o uso da tecnologia fotovoltaica em menor escala. O país oferece incentivos para que proprietários de casas e empresas instalem painéis solares em suas propriedades, incluindo isenções fiscais e subsídios para o custo dos equipamentos. Isso levou a um crescimento no número de instalações solares em telhados em Montenegro, aumentando ainda mais a capacidade de energia solar do país.

O compromisso de Montenegro com a energia renovável vai além da energia solar. O país estabeleceu uma meta de gerar 33% de sua eletricidade a partir de fontes renováveis até 2020, com planos de aumentar esse percentual para 36,5% até 2030. Isso inclui não apenas a energia solar, mas também a eólica, a hidrelétrica e a de biomassa.

### Pontos-chave

Está sendo considerado um projeto para a construção de uma usina de energia solar (SPP) em Montenegro para a venda de eletricidade a uma rede centralizada sem armazenamento intermediário. A implementação do projeto está planejada para estimular o desenvolvimento da energia solar em Montenegro e a transição para fontes de energia verde renovável sem hidrocarbonetos.

O principal cenário para a implementação do Projeto é o uso de painéis solares fabricados na China, com subsídios da EKO FOND MONTENEGRO, com uma tarifa padrão (cerca de US\$ 110 por MWh).

### Conexão de rede Itália-Montenegro

### Dados principais

GROSS REVENUE

\$ 0

EBITDA

\$ 0

BUSINESS TYPE

Energia renovável

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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