

# 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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