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# 兆瓦黑山光伏太阳能发电





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黑山是位于欧洲东南部的一个小国，人口仅 60 多万。

尽管幅员辽阔，但该国正迅速成为可再生能源生产的领头羊，尤其是在光伏（PV）技术领域。

黑山日照充足，多山的地形使其成为太阳能生产的理想之地。该国每年平均日照时间达 2,500 小时，是欧洲阳光最充足的地方之一。

这使得黑山能够通过在全国各地安装光伏板来利用太阳能。

黑山最大的光伏项目之一是位于乌尔齐尼镇附近的 Briska Gora 太阳能园区。这个 250 兆瓦的设施预计每年可生产超过 400 千兆瓦时的电力，足以为 100,000 个家庭供电。

该项目是黑山政府和私人投资者的共同努力成果，他们看到了太阳能在减少该国对化石燃料的依赖和创造更加可持续的能源未来方面的潜力。

除了像 Briska Gora 这样的大型项目外，黑山还在小规模推广使用光伏技术。

该国为房主和企业在其房产上安装太阳能电池板提供激励措施，包括税收减免和设备成本补贴。

这导致黑山全国屋顶太阳能装置数量增加，进一步提高了该国的太阳能发电能力。

黑山对可再生能源的承诺不仅限于太阳能。该国设定的目标是，到 2020 年，33% 的电力来自可再生能源，并计划到 2030 年将这一比例提高到 36.5%。

这不仅包括太阳能，还包括风能、水电和生物质能。

### 要点

目前正在考虑在黑山建设一个网络太阳能发电厂

(SPP)，向集中式电网出售电力，无需中间存储。

该项目的实施计划将促进黑山太阳能的发展，并向非碳氢化合物可再生绿色能源过渡。

项目实施的主要方案是使用中国制造的太阳能电池板，由 EKO FOND MONTENEGRO 提供补贴，采用标准电价（每兆瓦时约 110 美元）。

意大利-黑山电网连接

### 关键数据

#### TARGET PRICE

\$0

#### GROSS REVENUE

\$0

#### EBITDA

\$0

#### BUSINESS TYPE

发电厂

#### REAL ESTATE

TBD

#### COUNTRY

黑山共和国

#### 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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