

50MW 몬테네그로 태양광 발전소





50MW

몬테네그로는 남동부 유럽에 위치한 인구 60만 명이 조금 넘는 작은 나라입니다. 이 나라는 작은 규모에도 불구하고 재생 에너지 생산, 특히 태양광(PV) 기술 분야에서 빠르게 선두주자로 발돋움하고 있습니다.

몬테네그로는 일조량이 풍부하고 산악 지형이 많아 태양광 에너지 생산에 이상적인 장소입니다. 이 나라는 연평균 2,500시간의 햇빛을 받아 유럽에서 가장 햇볕이 잘 드는 곳 중 하나입니다. 이를 통해 몬테네그로는 전국에 태양광 패널을 설치하여 태양의 힘을 활용할 수 있게 되었습니다.

몬테네그로에서 가장 큰 태양광 발전 프로젝트 중 하나는 울치니 마을 근처에 위치한 브리СКА 고라 태양광 발전소입니다. 250MW 규모의 이 시설은 연간 400GWh 이상의 전력을 생산할 것으로 예상되며, 이는 10만 가구에 전력을 공급할 수 있는 양입니다. 이 프로젝트는 몬테네그로의 화석 연료 의존도를 낮추고 보다 지속 가능한 에너지 미래를 만들기 위해 태양광 에너지의 잠재력을 보고 있는 몬테네그로 정부와 민간 투자자들의 공동 노력의 결과물입니다.

몬테네그로는 브리СКА 고라와 같은 대규모 프로젝트 외에도 소규모 태양광 기술 사용을 장려하고 있습니다. 이 나라는 주택 소유주와 기업이 건물에 태양광 패널을 설치하는 경우 세금 감면과 장비 비용 보조금 등 인센티브를 제공합니다. 이로 인해 몬테네그로 전역에 옥상 태양광 설치가 증가하여 몬테네그로의 태양광 에너지 용량이 더욱 증가했습니다.

몬테네그로의 재생 에너지에 대한 노력은 태양광 발전 그 이상으로 확장됩니다. 2020년까지 전체 전력의 33%를 재생 에너지로 생산한다는 목표를 세웠으며, 2030년까지 이를 36.5%로 늘릴 계획입니다. 여기에는 태양 에너지뿐만 아니라 풍력, 수력, 바이오매스도 포함됩니다.

키포인트

몬테네그로에 중간 저장소 없이 중앙 집중식 네트워크에 전기를 판매하는 네트워크 태양광 발전소(SPP) 건설 프로젝트가 검토되고 있습니다. 이 프로젝트의 시행은 몬테네그로의 태양 에너지 개발과 비탄화수소 재생 가능 녹색 에너지원으로서의 전환을 촉진하기 위해 계획되었습니다.

프로젝트 실행의 주요 시나리오는 중국산 태양광 패널을 사용하는 것으로, EKO FOND MONTENEGRO의 보조금과 함께 표준 관세(MWh당 약 110달러)가 적용됩니다.

이탈리아-몬테네그로 그리드 연결

주요 데이터

TARGET PRICE

\$0

GROSS REVENUE

\$0

EBITDA

\$0

BUSINESS TYPE

재생 에너지

REAL ESTATE

미정

COUNTRY

몬테네그로

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

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