

50MW モンテネグロ 太陽光発電所



MERGERSCORP

50MW

モンテネグロは南東ヨーロッパに位置する人口60万人強の小国である。

国土の広さにもかかわらず、同国は再生可能エネルギー生産、特に太陽光発電（PV）技術の分野で急速にリーダー的存在になりつつある。

モンテネグロの豊富な日照量と山がちな地形は、太陽エネルギー生産に理想的な場所である。

年間平均日照時間は2,500時間で、ヨーロッパで最も日照時間の長い国のひとつである。

これにより、モンテネグロは国中に太陽光発電パネルを設置し、太陽の力を利用できるようになった。

モンテネグロ最大の太陽光発電プロジェクトのひとつが、ウルチニ（Ulcinj）近郊にあるブリスカ・ゴラ（Briska Gora）ソーラーパークだ。

この250MWの施設では、年間400GWh以上の発電が見込まれており、これは10万世帯分の電力に相当する。

このプロジェクトはモンテネグロ政府と民間投資家の共同作業であり、モンテネグロ政府は、化石燃料への依存を減らし、より持続可能なエネルギーの未来を創造するための太陽エネルギーの可能性を見出している。

Briska

Goraのような大規模プロジェクトに加え、モンテネグロは小規模なPV技術の利用も推進している。

同国では、住宅所有者や企業が所有地にソーラーパネルを設置する際に、税制優遇措置や設備費用の補助金などのインセンティブを提供している。

このため、モンテネグロ全土で屋根上太陽光発電設備が増加し、同国の太陽光発電容量はさらに増加している。

モンテネグロの再生可能エネルギーへの取り組みは、太陽光発電だけにとどまらない。

同国は、2020年までに電力の33%を再生可能エネルギーで賄うという目標を掲げており、2030年までにそれを36.5%まで引き上げる計画だ。

これには太陽エネルギーだけでなく、風力、水力、バイオマスも含まれる。

キーポイント

モンテネグロで、中間貯蔵なしで集中型ネットワークに売電するネットワーク型太陽光発電所（SPP）の建設プロジェクトが検討されている。

TARGET PRICE

\$0

GROSS REVENUE

\$0

EBITDA

\$0

BUSINESS TYPE

再生可能エネルギー

COUNTRY

モンテネグロ

BUSINESS ID

L#20240651

プロジェクトの実施は、モンテネグロにおける太陽エネルギーの開発と、非炭化水素の再生可能グリーンエネルギー源への移行を促進する計画である。

プロジェクトの主な実施シナリオは、中国製のソーラーパネルを使用し、EKO FOND MONTENEGROから補助金を受け、標準的な料金（1MWhあたり約110ドル）を設定することである。

イタリア-モンテネグロ送電網接続

主要データ

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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