Centrale fotovoltaica montenegrina da 50MW



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Il Montenegro è un piccolo paese situato nell'Europa sudorientale con una popolazione di poco più di 600.000 persone. Nonostante le sue dimensioni, il paese sta rapidamente diventando leader nella produzione di energia rinnovabile, in particolare nel settore della tecnologia fotovoltaica (PV).

L'abbondanza di sole e il terreno montuoso del Montenegro lo rendono un luogo ideale per la produzione di energia solare. Il paese riceve una media di 2.500 ore di luce solare all'anno, il che lo rende uno dei luoghi più soleggiati d'Europa. Questo ha permesso al Montenegro di sfruttare la potenza del sole attraverso l'installazione di pannelli fotovoltaici in tutto il paese.

Uno dei più grandi progetti fotovoltaici in Montenegro è il parco solare di Briska Gora, situato vicino alla città di Ulcinj. Questo impianto da 250 MW dovrebbe produrre oltre 400 GWh di elettricità all'anno, sufficienti per alimentare 100.000 abitazioni. Il progetto è uno sforzo congiunto tra il governo del Montenegro e gli investitori privati, che vedono il potenziale dell'energia solare per ridurre la dipendenza del paese dai combustibili fossili e creare un futuro energetico più sostenibile.

Oltre ai progetti su larga scala come Briska Gora, il Montenegro sta promuovendo l'uso della tecnologia fotovoltaica anche su scala più piccola. Il Paese offre incentivi a proprietari di case e aziende per l'installazione di pannelli solari sulle loro proprietà, tra cui agevolazioni fiscali e sussidi per il costo delle attrezzature. Questo ha portato a una crescita del numero di installazioni solari su tetto in tutto il Montenegro, aumentando ulteriormente la capacità di energia solare del paese.

L'impegno del Montenegro per le energie rinnovabili va oltre la semplice energia solare. Il Paese ha fissato l'obiettivo di generare il 33% dell'energia elettrica da fonti rinnovabili entro il 2020, con l'intenzione di aumentarlo al 36,5% entro il 2030. Questo include non solo l'energia solare, ma anche l'energia eolica, l'energia idroelettrica e la biomassa.

Punti chiave

Si sta valutando un progetto per la costruzione di un impianto solare di rete (SPP) in Montenegro per la vendita di energia elettrica a una rete centralizzata senza stoccaggio intermedio. L'attuazione del progetto è prevista per stimolare lo sviluppo dell'energia solare in Montenegro e la transizione verso fonti energetiche verdi rinnovabili non idrocarburiche.

Lo scenario principale per l'attuazione del Progetto prevede l'utilizzo di pannelli solari di produzione cinese, con sovvenzioni da parte di EKO FOND MONTENEGRO, con una tariffa standard (circa $110 per MWh).

Connessione alla rete Italia-Montenegro

Dati chiave

GROSS REVENUE
$0

EBITDA
$0

BUSINESS TYPE
Energia rinnovabile - Fotovoltaico

REAL ESTATE
TBD

COUNTRY
Montenegro

BUSINESS ID
L#20240651

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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/m²
Global horizontal irradiation	GHI	**1476.3**	kWh/m²
Diffuse horizontal irradiation	DIF	**604.0**	kWh/m²
Global tilted irradiation at optimum angle	GTI opta	**1735.6**	kWh/m²
Optimum tilt of PV modules	OPTA	**36 / 180**	°
Air temperature	TEMP	**14.8**	°C
Terrain elevation	ELE	**183**	m

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