

# ةقاطلا دي لوت ةطحم ةيسمشلا ةردقب ةيئوضورهكلا ىف تاواجىم 50







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

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