

8.3 MW Operational Solar Photovoltaic Power Plants





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The project spans an impressive 85,000 m² land surface divided into three individual parcels. It features three building sites, each equipped with its own photovoltaic power plant (PVPP), combining for a total PV capacity of 8.3 MW. Each PVPP boasts individual building permits, grid-connection permits, electricity production licenses, and independent substations, ensuring seamless and efficient energy production.

The site is strategically located just 200 meters from the main asphalted regional road, making it highly accessible with regulated access to the main road. The land has a natural slope angle of 7 degrees, and the PV modules are optimally positioned at a 20-degree angle.

Geographically, the location is excellent, situated on a south-facing plateau at an altitude of 500-600 meters above sea level. This setting provides a slight regular breeze and ideal temperatures, contributing to maximum and optimal energy production.

Project Capacity

5MW already operational: PVPP "Power 1" (3.23MW) and PVPP "Power 2" (1.75MW).

PPA: HUP(h) - 7% / MWh

PVPP "Power 3": 3.375 MW (ready for construction):

Building permit, Grid Connection permit and electricity production License already obtained. Part of the equipment provided.

PVPP Power 1

- Capacity: 3.266 MWDC / 3.25 MWAC
- PV modules: Sirius MBB HC Monocrystalline PV Module (ELNSM72M - HC - HV Series Sirius 182M Series: 550W), 5,938 panels, produced by ELIN Enerji, Turkey.
- Inverters: SG250HX - V117_S, 250kW individual power, 13 inverters, produced by SUNGROW, China.
- Mounting System By HMD, Turkey: galvanised stainless steel construction
- Substation (4MW, 2X2MW trafos), by ASTOR, Turkey
- Cables: EAYY-J 4x150 SM and NA2XS(F)2Y 20/36kV (3x1x95)mm² by Cabex Cables, N.Macedonia
- PVPP construction and installation: Sega Solar, Turkey 700 m distance from grid-connection point
- Estimated PVPP lifetime: over 25 years Annual solar irradiation: 1.802,12 kWh/m²
- Expected yearly electricity production: 4.343 MWh Signed and effective PPA: HUP(h) - 7% / MWh

PVPP Power 2

- Capacity: 1.829MWDC/1.75MWAC
- PV modules: Sirius MBB HC Monocrystalline PV Module (ELNSM72M-HC-HV Series Sirius 182M Series: 550W), 3 325 panels, produced by ELIN Enerji, Turkey
- Inverters: SG250HX-VI17_S, 250kW individual power, 7inverters, produced by SUNGROW, China
- Mounting system by HMD, Turkey: galvanized stainless steel construction
- Substation (2MW, 1x2MW trafo), by ASTOR, Turkey
- Cables: EAYY-J 4x150 SM and NA2XS(F)2Y 20/36kV (3x1x95)mm² by Cabex Cables,

TARGET PRICE

EUR 5,500,000

GROSS REVENUE

TBA

EBITDA

TBA

BUSINESS TYPE

Renewable Energy

COUNTRY

Macedonia

BUSINESS ID

L#20240705

N.Macedonia

- PVPP construction and installation: Sega Solar, Turkey
- Less than 700 m distance from grid-connection point
- Estimated PVPP lifetime: over 25 years Annual solar irradiation: 1.802,12 kWh/m²
- Expected yearly electricity production: 2.432 MWh Signed and effective PPA: HUPX(h) -7% / Mh

PVPP Power 3

- CAPACITY: 3.375MW AC
- STATUS: READY FOR CONSTRUCTION
- Officially issued and obtained documentation: Building permit, Grid-connection permit (grid-connection point already in possession); electricity production License
- Part of the equipment already obtained:
- Inverters: SG250HX-V117_S, 250kW individual power, 13 inverters, produced by SUNGROW, China (already obtained)
- Cables: EAYY-J 4x150 SM and NA2XS(F)2Y 20/36kV (3x1x95)mm² by Cabex Cables, N.Macedonia (already obtained)
- Less than 700m distance from grid-connection point Estimated PVPP lifetime:over 25years.
- Annual solar irradiation: 1.802,12 kWh/m² Expected yearly electricity production: 4.510 MWh

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