IMPORTS EXPORTS
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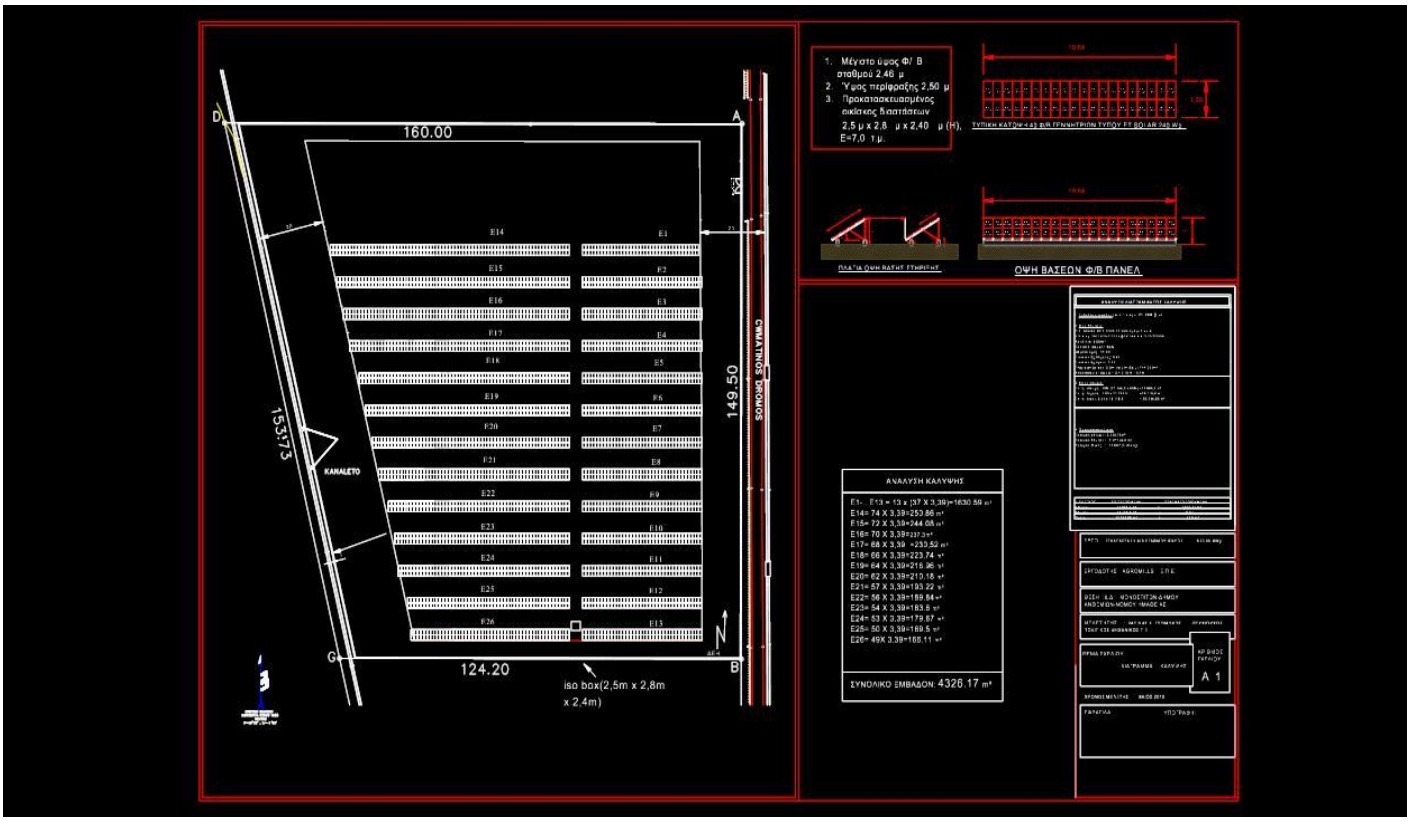
Properties

• The properties for the 500KWp solar farms central Macedonia in Greece are 21.244m2 in area Monospitta near by city Naousa Imathias secured by a long term notary lease-contract until for 30 years. The lease amount for all properties is about 500€/1.000m2 per annum plus an annual adjustment of 5% (inflation). All properties are flat with a pitch angle up to 3%.



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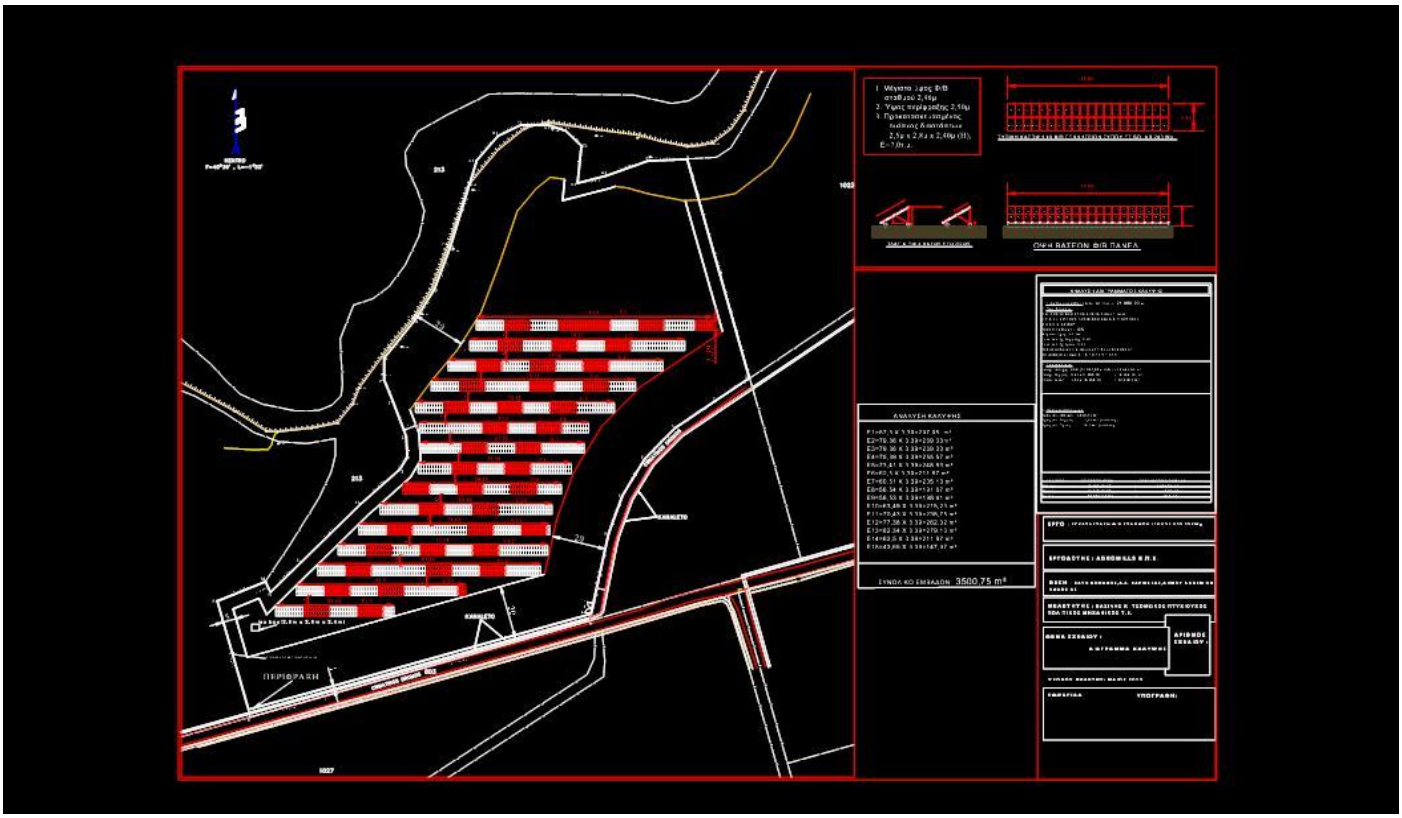
Properties

• The properties for the 500KWp solar farms central Macedonia in Greece are 21.060m2 in area Chariessa near by city Naousa Imathias secured by a long term notary lease-contract until for 30 years. The lease amount for all properties is about 500€/1.000m2 per annum plus an annual adjustment of 5% (inflation). All properties are flat with a pitch angle up to 3%.



Yield production estimation

The yield estimation of the solar farms in Schimatari Viotias in central Greece 1.480KWh/KWp minimun, and the estimation for the locations central Macedonia in Greece areas by near in city Naousa Imathias are about 1.380KWh/KWp minimun.

The estimations are based on fix installed polycrystalline modules with the tools PVGIS and SMA Sunny Portal.

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Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 37°58'45" North, 23°42'59" East, Elevation: 58 m a.s.l., (Schimatari Viotias – Greece)

Nominal power of the PV system: 99.7 kW (crystalline silicon)
Estimated losses due to temperature: 10.4% (using local ambient temperature)
Estimated loss due to angular reflectance effects: 2.6%
Other losses (cables, inverter etc.): 4.0%
Combined PV system losses: 16.2%

	Fixed system: inclination=35 deg., orientation=0 deg.			
Month	**Ed**	**Em**	**Hd**	**Hm**
Jan	283.00	8760	3.18	98.5
Feb	311.00	8700	3.55	99.4
Mar	398.00	12300	4.61	143
Apr	468.00	14000	5.54	166
May	492.00	15300	5.98	185
Jun	517.00	15500	6.43	193
Jul	516.00	16000	6.49	201
Aug	508.00	15800	6.38	198
Sep	490.00	14700	6.01	180
Oct	382.00	11800	4.55	141
Nov	275.00	8250	3.17	95.2
Dec	244.00	7580	2.76	85.6
Year	407.00	12400	4.89	149
Total for year		149000		1790

Ed: Average daily electricity production from the given system (kWh)

Em: Average monthly electricity production from the given system (kWh)

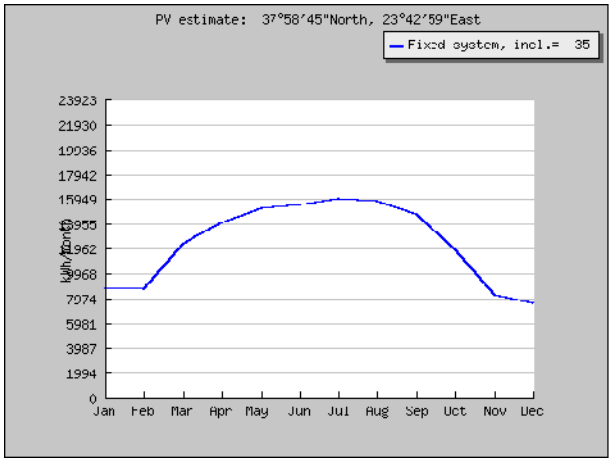
Hd: Average daily sum of global irradiation per square meter received by the modules of the given system (kWh/m2)

Hm: Average sum of global irradiation per square meter received by the modules of the given system (kWh/m2)

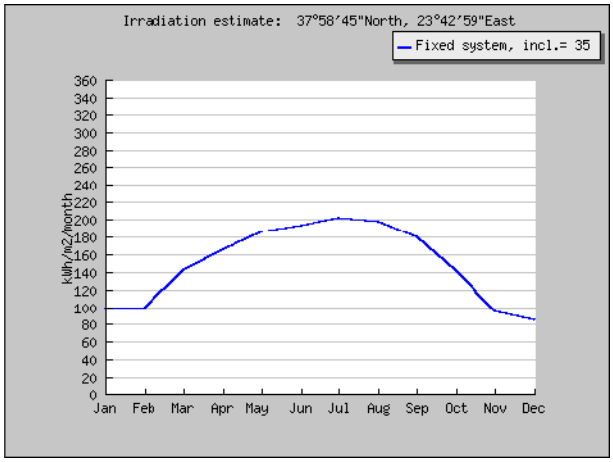
JRC EUROPEAN COMMISSION

Photovoltaic Geographical Information System

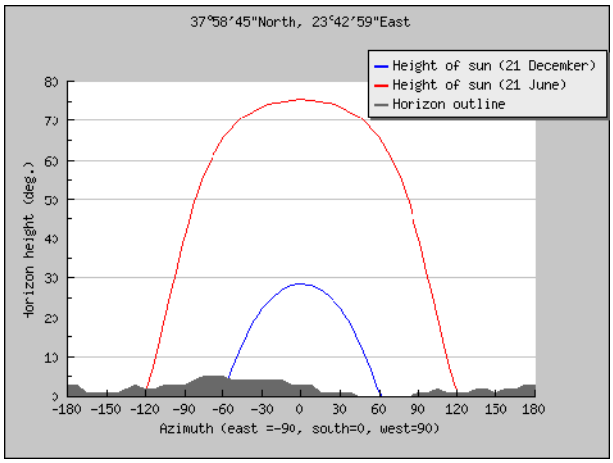
European Commission
Joint Research Centre
Ispra, Italy



Monthly energy output from fixed-angle PV system



Monthly in-plane irradiation for fixed angle



Outline of horizon with sun path for winter and summer solstice