

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 54°47'5" North, 11°28'50" East, Elevation: 0 m a.s.l.,

Nominal power of the PV system: 6.2 kW (crystalline silicon)

Estimated losses due to temperature: 7.7% (using local ambient temperature)

Estimated loss due to angular reflectance effects: 3.0%

Other losses (cables, inverter etc.): 7.0%

Combined PV system losses: 16.7%

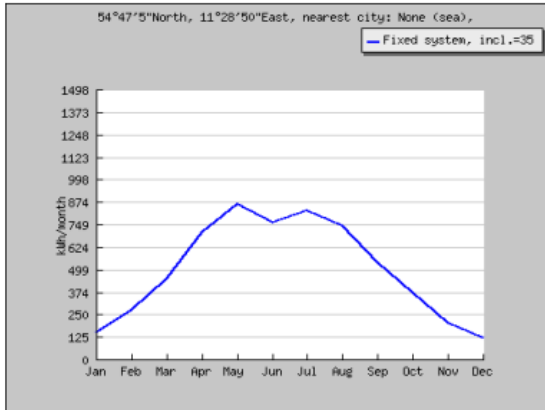
Fixed system: inclination=35 deg., orientation=0 deg.				
Month	Ed	Em	Hd	Hm
Jan	4.78	148	0.83	25.9
Feb	9.91	277	1.77	49.7
Mar	14.50	448	2.65	82.2
Apr	23.60	708	4.50	135
May	27.90	864	5.47	170
Jun	25.30	759	5.04	151
Jul	26.80	829	5.37	167
Aug	23.90	741	4.78	148
Sep	18.00	539	3.49	105
Oct	12.00	373	2.24	69.5
Nov	6.71	201	1.20	36.1
Dec	3.81	118	0.67	20.7
Year	16.50	501	3.18	96.6
Total for year		6010		1160

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

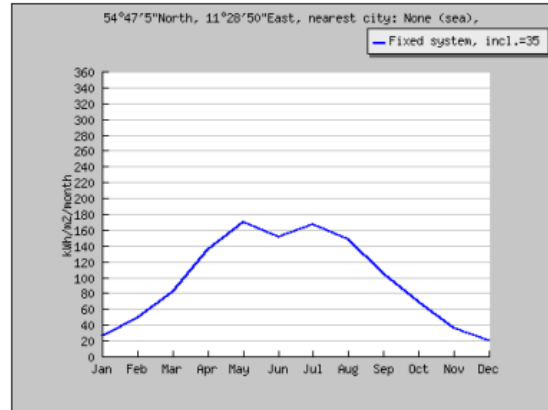
Em: Average monthly electricity production from the given system (kWh)

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

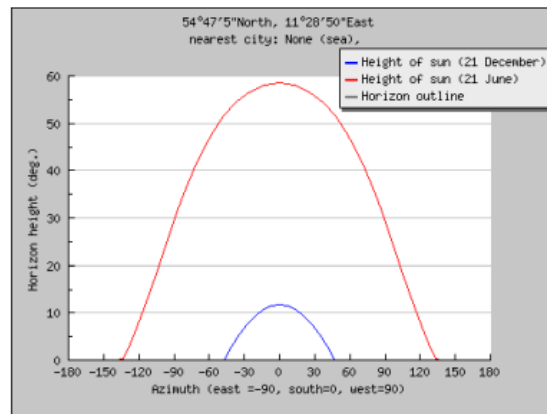
Hm: Average sum of global irradiation per square meter received by the modules of the given system (kWh/m²)



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

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