

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 50°20'34" North, 4°48'21" West, Elevation: 67 m a.s.l.,

Nominal power of the PV system: 3.8 kW (crystalline silicon)

Estimated losses due to temperature: 7.8% (using local ambient temperature)

Estimated loss due to angular reflectance effects: 2.9%

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

Combined PV system losses: 16.7%

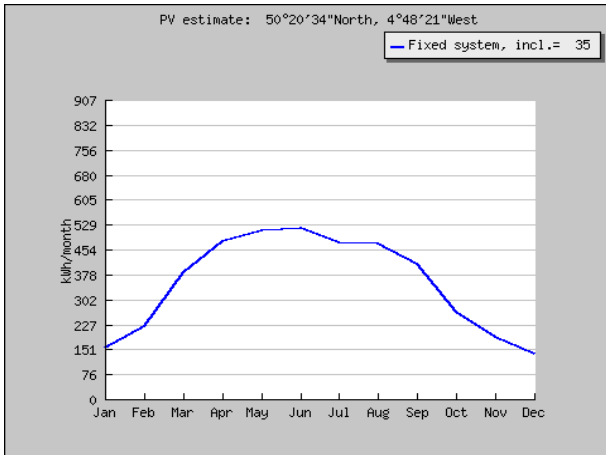
Fixed system: inclination=35 deg., orientation=0 deg.				
Month	Ed	Em	Hd	Hm
Jan	5.04	156	1.51	46.9
Feb	7.92	222	2.39	66.9
Mar	12.40	385	3.82	118
Apr	16.00	479	5.06	152
May	16.50	512	5.33	165
Jun	17.20	517	5.63	169
Jul	15.30	475	5.04	156
Aug	15.20	473	5.01	155
Sep	13.70	410	4.40	132
Oct	8.59	266	2.69	83.5
Nov	6.32	190	1.93	57.8
Dec	4.42	137	1.33	41.2
Year	11.60	352	3.68	112
Total for year		4220		1340

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

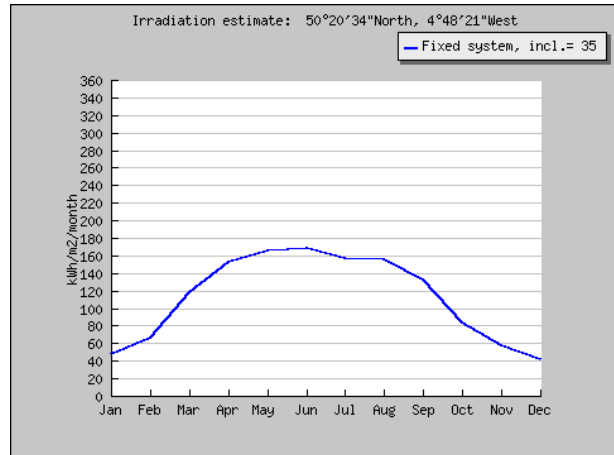
Em: Average monthly electricity production from the given system (kWh)

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

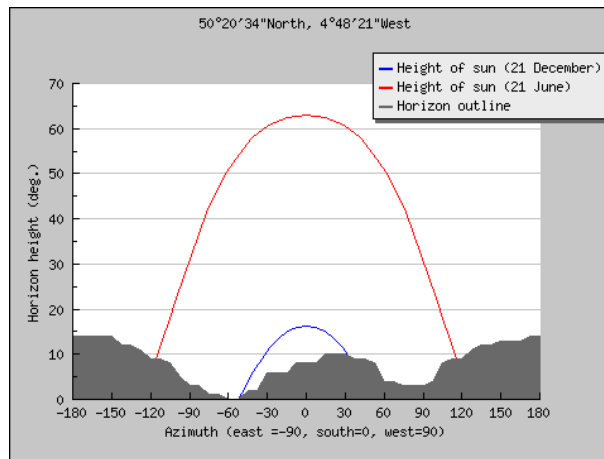
Hm: Average sum of global irradiation per square meter received by the modules of the given system (kWh/m²)



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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