

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 45°11'59" North, 5°41'28" East, Elevation: 211 m a.s.l.,

Nominal power of the PV system: 3.0 kW (crystalline silicon) Estimated losses due to temperature: 8.9% (using local ambient temperature) Estimated loss due to angular reflectance effects: 2.8% Other losses (cables, inverter etc.): 14.0% Combined PV system losses: 23.8%

	Fixed system: inclination=22 deg.,			
	orientation=-10 deg.			
Month	Ed	Em	Hd	Hm
Jan	4.50	139	1.85	57.3
Feb	6.27	175	2.60	72.8
Mar	9.79	303	4.19	130
Apr	11.10	334	4.89	147
Мау	11.70	363	5.29	164
Jun	13.10	392	6.03	181
Jul	13.90	430	6.45	200
Aug	13.00	404	6.03	187
Sep	10.80	323	4.81	144
Oct	7.22	224	3.13	97.2
Nov	4.76	143	1.99	59.8
Dec	3.63	112	1.51	46.7
Year	9.16	279	4.07	124
Total for		3340		1490
year				

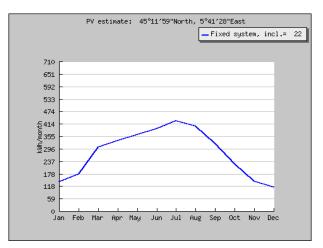
Ed: Average daily electricity production from the given system (kWh)

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

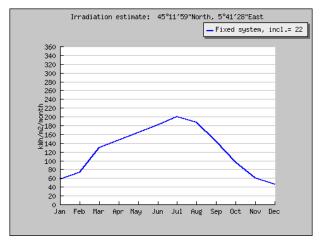
Hd: Average daily sum of global irradiation per square meter received by the modules of the given system (kWh/m2)

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

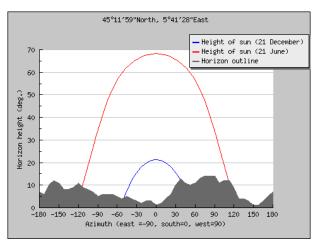


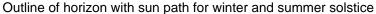


Monthly energy output from fixed-angle PV system



Monthly in-plane irradiation for fixed angle





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