

Photovoltaic Geographical Information System

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 50°23'2" North, 3°31'11" West, Elevation: 62 m a.s.l.,

Nominal power of the PV system: 1.4 kW (crystalline silicon)

Estimated losses due to temperature: 11.6% (using local ambient temperature)

Estimated loss due to angular reflectance effects: 3.3%

Other losses (cables, inverter etc.): 11.0% Combined PV system losses: 23.9%

	Fixed system: inclination=15 deg.,			
	orientation=0 deg.			
Month	Ed	Em	Hd	Hm
Jan	1.01	31.2	0.90	28.0
Feb	2.02	56.4	1.78	49.9
Mar	3.24	100	2.90	89.8
Apr	4.99	150	4.61	138
May	5.63	174	5.31	164
Jun	5.78	173	5.54	166
Jul	5.77	179	5.56	172
Aug	4.96	154	4.76	148
Sep	3.86	116	3.62	108
Oct	2.27	70.3	2.08	64.5
Nov	1.33	39.8	1.20	36.0
Dec	0.79	24.6	0.72	22.5
Year	3.48	106	3.26	99.0
Total for		1270		1190
year				

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

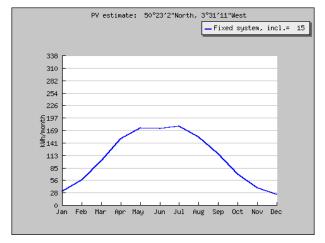
Em: Average monthly electricity production from the given system (kWh)

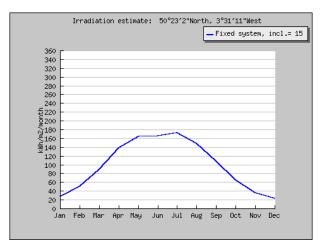
Hd: Average daily sum of global irradiation per square meter received by the modules of the given system (kWh/m2)

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



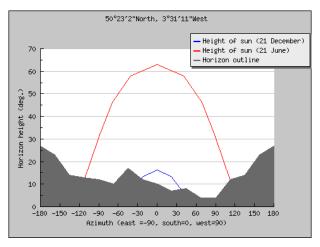
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Monthly energy output from fixed-angle PV system

Monthly in-plane irradiation for fixed angle



Outline of horizon with sun path for winter and summer solstice

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