

40°

0 °

23.38 %

73.22 %

4902.88 Wh

6531.28 Wh

Performance of off-grid PV systems

PVGIS-5 estimates of solar electricity generation

Provided inputs

Consumption per day:

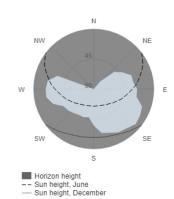
Latitude/Longitude: 49.266, 13.197
Horizon: User defined
Database used: PVGIS-CMSAF
PV installed: 4033 Wp
Battery capacity: 13800 Wh
Cutoff limit: 20 %

Slope angle:
Azimuth angle

Simulation outputs

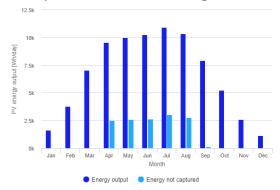
Percentage days with full battery:
Percentage days with empty battery:
Average energy not captured:
Average energy missing:

Outline of horizon at chosen location:

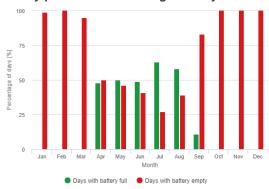


Power production estimate for off-grid PV:

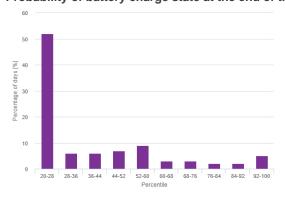
11500 Wh



Battery performance for off-grid PV system:



Probability of battery charge state at the end of the day:



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Monthly average performance

Month	Ed	El	Ff	Fe
January	1629.1	0	0	99
February	3794.02	0	0	100
March	7022.86	0	0	95
April	9560.73	2527.9	48	50
May	10004.0	52608.3	50	46
June	10256.7	42624.4	49	41
July	10900.2	83019.9	63	27
August	10336.8	12763.2	58	39
September	7939.89	133.4	11	83
October	5228.5	0	0	100
November	2575.72	0	0	100
December	1155.09	0	0	100

Ed: Average energy production per day [Wh/day].

El: Average energy not captured per day [Wh/day].

Ff: percentage of days when battery became full [%].
Fe: percentage of days when battery became empty [%].

Cs	Cb
20-28	52
28-36	6
36-44	6
44-52	7
52-60	9
60-68	3
68-76	3
76-84	2
84-92	2
92-100	5

Cs: Charge state at the end of each day [%].

Cb: percentage of days with this charge state [%].

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