

Performance of off-grid PV system

PVGIS-5 estimates of solar electricity generation

Provided inputs

Latitude/Longitude: <font style="vertical-align on the by the "vertical align on the by the align on the by the best the by the by

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Consumption per day: 9650024f6

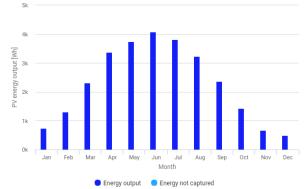
Outline of horizon at chosen location:

inherit;">45</fo

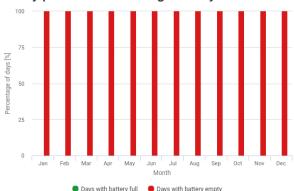
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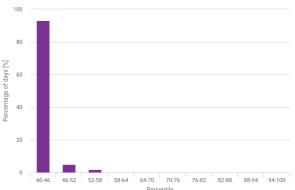
Power production estimate for off-grid PV:



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	E_d	E_I	f_f	f_e
January	734.7	0.0	0.0	100.0
February	1312.9	0.0	0.0	100.0
March	2306.6	0.0	0.0	100.0
April	3366.1	0.0	0.0	100.0
May	3746.0	0.0	0.0	100.0
June	4089.2	0.0	0.0	100.0
July	3820.6	0.0	0.0	100.0
August	3239.1	0.0	0.0	100.0
September	2367.6	0.0	0.0	100.0
October	1424.5	0.0	0.0	100.0
November	679.1	0.0	0.0	100.0
December	491.2	0.0	0.0	100.0

 ${\sf E_d: Average\ energy\ production\ per\ day\ [Wh/day]}.$

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

f_f: Percentage of days when battery became full [%].f_e: Percentage of days when battery became empty [%].

Cs	Cb
40-46	93.0
46-52	5.0
52-58	2.0
58-64	0.0
64-70	0.0
70-76	0.0
76-82	0.0
82-88	0.0
88-94	0.0
94-100	0.0

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

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

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Report generated on 2022/11/08