

Performance of off-grid PV systems

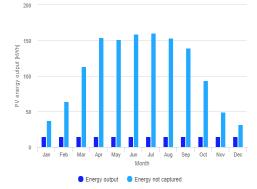
PVGIS-5 estimates of solar electricity generation

Provided inputs

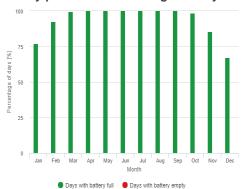
Latitude/Longitude:49.500, 8.500Slope angle:50 °Horizon:CalculatedAzimuth angle0 °Database used:PVGIS-SARAHSimulation outputs

PV installed: 50 Wp Percentage days with full battery:
Battery capacity: 70 Wh Percentage days with empty battery:
Cutoff limit: 30 % Average energy not captured:
Consumption per day: 15 Wh Average energy missing:

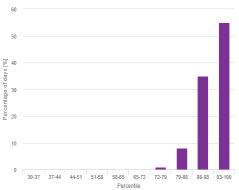
Power production estimate for off-grid PV:



Battery performance for off-grid PV system:



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



Union policies in general. Our goal is to keep this information timely and accurate. If errors are brought to our attention, we will try to correct them

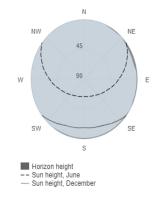
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i) of a general nature only and is not intended to address the specific circumstances of any particular individual or entity,

ii) not necessarily comprehensive, complete, accurate or up to date,

iii) sometimes linked to external sites over which the Commission services have no control and for which the Commission

Outline of horizon at chosen location:



Monthly average performance

93.36 %

116.99 Wh

0 %

0 Wh

Month	E_d	E_I	f_f	f_e
January	15.0	37.5	77.1	0.0
February	15.1	63.9	92.6	0.0
March	15.0	113.3	99.7	0.0
April	15.0	154.5	100.0	0.0
May	15.0	151.4	100.0	0.0
June	15.0	159.4	100.0	0.0
July	15.0	160.7	100.0	0.0
August	15.0	153.6	100.0	0.0
September	15.0	139.4	100.0	0.0
October	15.0	93.9	98.7	0.0
November	14.9	49.5	85.6	0.0
December	15.0	31.9	67.2	0.0

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
30-37	0.0
37-44	0.0
44-51	0.0
51-58	0.0
58-65	0.0
65-72	0.0
72-79	1.0
79-86	8.0
86-93	35.0
93-100	55.0

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

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

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