

# Performance of off-grid PV system



### **Provided inputs**

Latitude/Longitude:36.321,-100.966Slope angle:35 °Horizon:CalculatedAzimuth angle0 °

Database used: PVGIS-NSRDB Simulation outputs

PV installed:

2.2 Wp

Percentage days with full battery:

Percentage days with empty battery:

Cutoff limit:

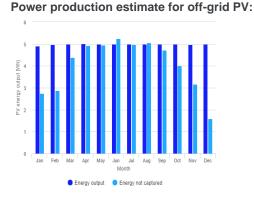
20 %

Average energy not captured:

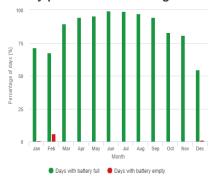
Consumption per day:

5 Wh

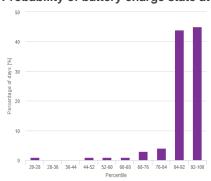
Average energy missing:



### Battery performance for off-grid PV system:



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

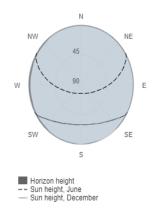


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#### Outline of horizon at chosen location:



#### Monthly average performance

85.69 %

4.74 Wh

1.86 Wh

0.6 %

Month	E_d	E_I	f_f	f_e
January	4.9	2.8	71.3	0.6
February	5.0	2.9	67.5	5.8
March	5.0	4.4	89.4	0.0
April	5.0	4.9	94.2	0.0
May	5.0	5.0	95.6	0.0
June	5.0	5.2	99.4	0.0
July	5.0	5.0	99.1	0.0
August	5.0	5.1	97.4	0.0
September	5.0	4.7	94.5	0.0
October	5.0	4.0	82.7	0.0
November	5.0	3.2	80.6	0.0
December	5.0	1.6	54.7	1.2

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
20-28	1.0
28-36	0.0
36-44	0.0
44-52	1.0
52-60	1.0
60-68	1.0
68-76	3.0
76-84	4.0
84-92	44.0
92-100	45.0

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

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

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