

35°

0 °

0 %

0 Wh

99.98 %

232.13 Wh

Performance of off-grid PV system

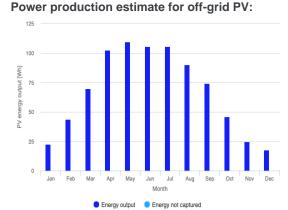
PVGIS-5 estimates of solar electricity generation

Provided inputs

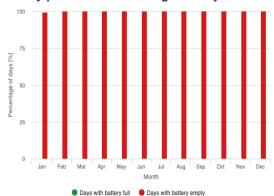
Latitude/Longitude: 53.632,10.023 Slope angle: Horizon: Calculated Azimuth angle

Database used: PVGIS-SARAH2 Simulation outputs PV installed: 30 Wp Percentage days with full battery: Battery capacity: 600 Wh Percentage days with empty battery: Cutoff limit: 40 % Average energy not captured:

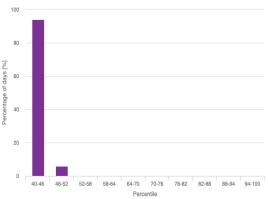
Consumption per day: 300 Wh Average energy missing:



Battery performance for off-grid PV system:

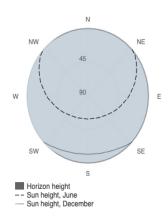


Probability of battery charge state at the end of the day:



For more information, please visit https://ec.europa.eu/info/legal-notice_er

Outline of horizon at chosen location:



Monthly average performance

84				
Month	E_d	E_I	f_f	f_e
January	22.4	0.0	0.0	99.8
February	43.7	0.0	0.0	100.0
March	70.0	0.0	0.0	100.0
April	102.6	0.0	0.0	100.0
May	109.3	0.0	0.0	100.0
June	105.7	0.0	0.0	100.0
July	105.5	0.0	0.0	100.0
August	90.3	0.0	0.0	100.0
September	74.4	0.0	0.0	100.0
October	46.0	0.0	0.0	100.0
November	24.9	0.0	0.0	100.0
December	17.7	0.0	0.0	100.0

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
40-46	94.0
46-52	6.0
52-58	0.0
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 2024/03/22