

0 °

0 °

97.7 %

0.16 %

39718.76 Wh

900.3 Wh

Performance of off-grid PV systems

PVGIS-5 estimates of solar electricity generation

Provided inputs

Latitude/Longitude: -34.069, 23.002
Horizon: Calculated
Database used: PVGIS-CMSAF

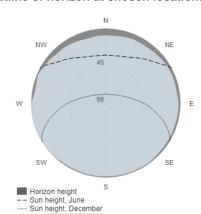
PV installed: 15000 Wp

PV installed: 15000 Wp
Battery capacity: 30000 Wh
Cutoff limit: 30 %
Consumption per day: 15000 Wh

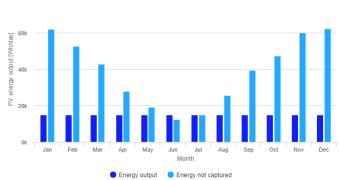
Slope angle: Azimuth angle Simulation outputs

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

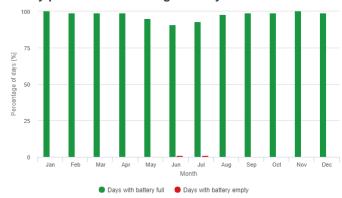
Outline of horizon at chosen location:



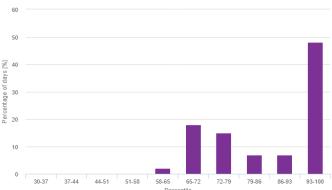
Power production estimate for off-grid PV:



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	EI	Ff	Fe
January	14952.1	T61834.9	100	0
February	14988.6	852637.8	99	0
March	14974.0	242795.5	99	0
April	14994.4	1927841.2	99	0
May	15004.1	119043.5	95	0
June	14984.8	3 12504.5	91	1
July	14995.1	1614859.9	93	1
August	15008.3	3825686.2	98	0
September	15011.2	239453.5	99	0
October	15008	47349.3	99	0
November	15011.8	3 60018.1	100	0
December	15002.0	562330.9	99	0

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	Ck
30-37	0
37-44	0
44-51	0
51-58	0
58-65	2
65-72	18
72-79	15
79-86	7
86-93	7
93-100	48

Cs: Charge state at the end of each day [%].
Cb: percentage of days with this charge state [%].

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