

PVGIS-5 estimates of solar electricity generation

Provided inputs

Latitude/Longitude:	43.219, 27.995
Horizon:	Calculated
Database used:	PVGIS-CMSAF
PV installed:	390 Wp
Battery capacity:	1800 Wh
Cutoff limit:	50 %
Consumption per day:	900 Wh

Slope angle: Azimuth angle Simulation outputs Percentage days with full battery: Percentage days with empty battery: Average energy not captured: Average energy missing:

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33 °

0 °

62.16 %

36.69 %

742.56 Wh

368.7 Wh

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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Research Centre





-- Sun height, June Sun height, December

Monthly average performance

Month	Ed	El	Ff	Fe
January	544.75	35.8	21	81
February	633.39	136.8	39	68
March	775.01	325.3	55	48
April	862.12	559.8	73	23
May	882.99	774.8	88	10
June	895.6	862.5	93	2
July	898.13	900.1	95	1
August	895.53	928.6	98	3
September	877.06	659.1	88	10
October	711.51	238.9	48	48
November	678.59	87.3	35	64
December	513.01	11.3	11	84
August September October November	895.53 877.06 711.51 678.59	928.6 659.1 238.9 87.3	98 88 48 35	3 10 48 64

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 [%].

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Cs	Cb
50-55	20
55-60	3
60-65	5
65-70	11
70-75	11
75-80	6
80-85	5
85-90	4
90-95	7
95-100	24

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

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

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