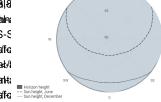


Performance of off-grid PV system

PVGIS-5 estimates of solar electricity generation

Provided inputs Outline of horizon at chosen location: Latitude/Longitude: "49.1668a].8 Horizon: Bertécalha Database used: PVGIS-S PV installed: "800003affc Battery capacity: Cutoff limit: <font style="verticalAa/legragien beneitgly < front apythe eldvertical-align from the trylle = "40 et/froat to
</pre>

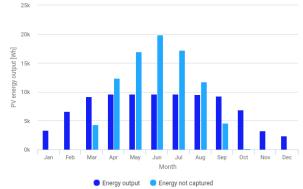
<font style="vertical-align:foint style="vertical-ali Consumption per day:



inherit;">fünfze inherit;">180</f

inherit;">52.67 inherit;">41.57 inherit;">13918 inherit;">5256.6

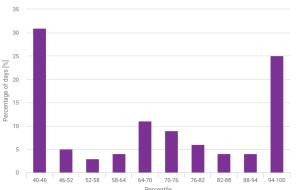
Power production estimate for off-grid PV:



Battery performance for off-grid PV system:



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



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

Monthly average performance

Month	E_d	E_I	f_f	f_e
January	3320.4	0.0	0.0	99.8
February	6608.2	119.8	5.6	85.0
March	9209.7	4300.6	63.9	22.4
April	9602.6	12395.5	91.9	1.0
May	9596.4	16973.7	94.0	0.4
June	9605.9	19868.8	98.8	0.0
July	9595.9	17247.7	97.4	0.2
August	9552.2	11736.5	92.9	1.6
September	9263.9	4619.6	72.7	14.4
October	6905.3	171.1	11.5	77.2
November	3264.8	0.0	0.0	100.0
December	2361.6	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	31.0
46-52	5.0
52-58	3.0
58-64	4.0
64-70	11.0
70-76	9.0
76-82	6.0
82-88	4.0
88-94	4.0
94-100	25.0

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

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

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Report generated on 2022/11/06