

Pré-dimensionnement système isolé

Site géographique
Ajaccio/Campo Oro
Pays France
Situation

Latitude 41.92° N

Longitude 8.80° E

Temps défini comme

Temps légal Fus. horaire TU+1

Altitude 4 m

Orientation plan capteurs

Inclinaison 0°

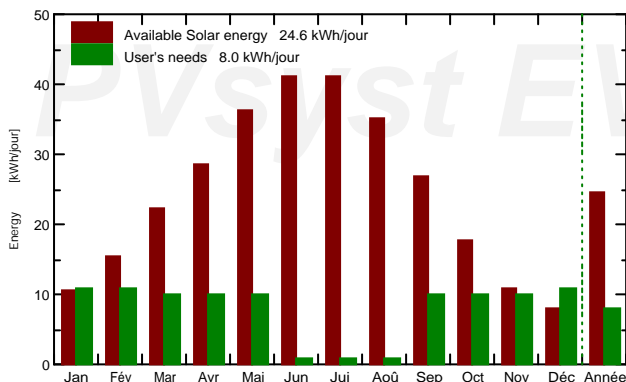
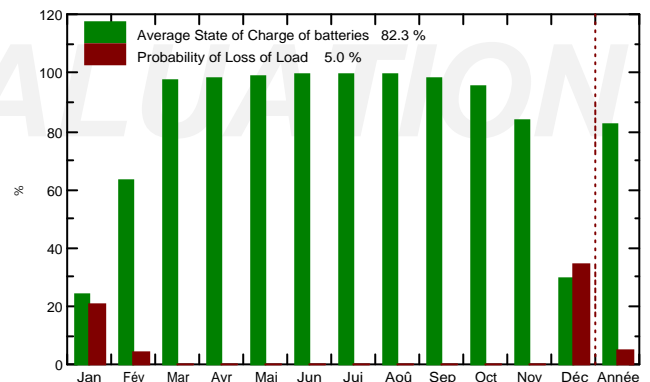
Azimut 0°

Horizon / Far shadings

Average height 2.5°

System pre-sizing evaluation

Average use of energy	Daily	8.0 kWh/day	Yearly	2936 kWh
Autonomy	Winter	4.0 days	Summer	4.0 days
Loss-of-Load	Time fraction	5.0 %	Missing energy	113 kWh
Battery system	Voltage	48 V	Capacity	1073 Ah
PV array	Nominal power	7.00 kWc	Nominal Current	112 A
Economic gross evaluation	Investment	36288 EUR	Energy price	1.33 EUR/kWh

PV energy yield and user's needs

Battery SOC and Loss-of-Load Probability


	Incid. kWh/m².jr	PV avail. kWh	Demand kWh	Excess kWh	Missing kWh	SOC %	Pr. LOL %	Fuel liter
Jan.	1.9	327.7	339.2	0.0	36.4	24	20.8	24.3
Fév.	2.8	432.9	306.4	63.5	7.3	63	3.9	4.9
Mars	4.0	696.0	314.4	362.6	0.0	98	0.0	0.0
Avr.	5.1	860.5	304.3	540.2	0.0	98	0.0	0.0
Mai	6.5	1126.3	314.4	797.4	0.0	99	0.0	0.0
Juin	7.3	1233.3	28.3	1201.3	0.0	100	0.0	0.0
Jui.	7.3	1273.1	29.2	1241.9	0.0	100	0.0	0.0
Août	6.3	1087.2	29.2	1055.8	0.0	100	0.0	0.0
Sep.	4.8	805.7	304.3	486.6	0.0	98	0.0	0.0
Oct.	3.2	555.0	314.4	220.1	0.0	96	0.0	0.0
Nov.	2.0	330.6	304.3	21.8	0.0	84	0.0	0.0
Déc.	1.4	246.5	339.2	0.0	69.0	29	34.3	46.0
Année	4.4	8974.8	2927.6	5991.2	112.8	82	5.0	75.2