

Pré-dimensionnement système isolé

Site géographique
Ajaccio/Campo Oro
Pays France
Situation

Latitude 41.87° N

Longitude 8.34° 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 4.9 %

Missing energy 118 kWh

Battery system

Voltage 48 V

Capacity 1073 Ah

PV array

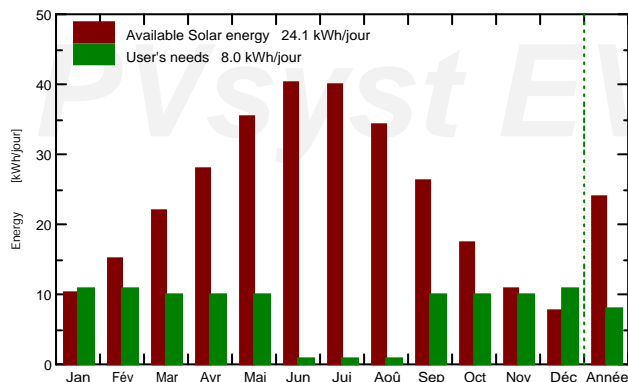
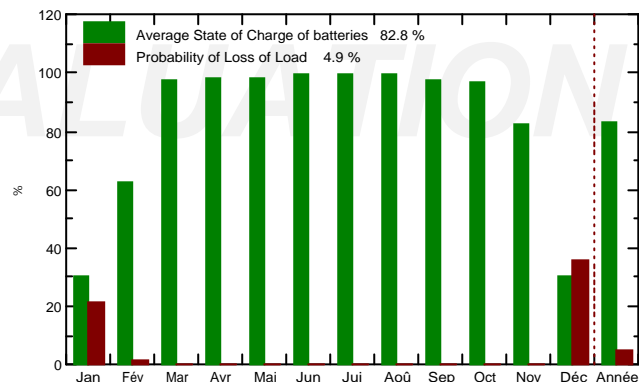
Nominal power 6.85 kWc

Nominal Current 110 A

Economic gross evaluation

Investment 35814 EUR

Energy price 1.32 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	320.7	339.2	0.0	40.9	30	21.5	27.3
Fév.	2.8	423.7	306.4	46.9	1.7	63	1.3	1.1
Mars	4.0	681.1	314.4	347.7	0.0	97	0.0	0.0
Avr.	5.1	842.1	304.3	521.8	0.0	98	0.0	0.0
Mai	6.5	1102.2	314.4	773.4	0.0	99	0.0	0.0
Juin	7.3	1206.9	28.3	1174.9	0.0	100	0.0	0.0
Jui.	7.3	1245.9	29.2	1214.7	0.0	100	0.0	0.0
Août	6.3	1064.0	29.2	1032.6	0.0	100	0.0	0.0
Sep.	4.8	788.5	304.3	468.9	0.0	98	0.0	0.0
Oct.	3.2	543.1	314.4	208.8	0.0	97	0.0	0.0
Nov.	2.0	323.5	304.3	16.4	0.0	83	0.0	0.0
Déc.	1.4	241.1	339.2	0.0	75.6	30	35.6	50.4
Année	4.4	8782.8	2927.6	5806.1	118.2	83	4.9	78.8