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Pré-dimensionnement système isolé

Site géographique Brest/Guipavas Pays France

SituationLatitude48.45° NLongitude-4.42° WTemps défini commeTemps légalFus. horaire TU+1Altitude99 m

Orientation plan capteurs Inclinaison 0° Azimut 0°

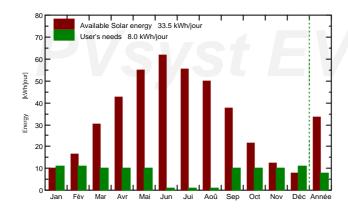
Horizon / Far shadings Average height 2.5°

System pre-sizing evaluation

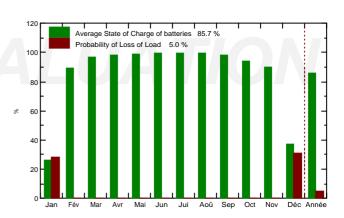
Average use of energy Daily 8.0 kWh/day Yearly 2936 kWh Autonomy Winter 4.0 days Summer 4.0 days Loss-of-Load Time fraction 118 kWh 5.0 % Missing energy Battery system Voltage 48 V Capacity 1073 Ah Nominal power 13.84 kWc **Nominal Current** 222 A PV array

Economic gross evaluation Investment 54249 EUR Energy price 1.65 EUR/kWh

PV energy yield and user's needs



Battery SOC and Loss-of-Load Probability



	Incid.	PV avail.	Demand	Excess	Missing	SOC	Pr. LOL	Fuel
PV	kWh/m².jr	kWh	kWh	kWh —	kWh	%	%	liter
Jan.	0.9	317.1	339.2	0.0	54.5	26	28.4	36.3
Fév.	1.5	463.3	306.4	100.1	0.0	89	0.0	0.0
Mars	2.7	931.5	314.4	597.5	0.0	97	0.0	0.0
Avr.	3.9	1284.3	304.3	965.8	0.0	99	0.0	0.0
Mai	5.0	1710.2	314.4	1383.5	0.0	99	0.0	0.0
Juin	5.6	1847.6	28.3	1816.4	0.0	100	0.0	0.0
Jui.	5.0	1723.6	29.2	1692.6	0.0	100	0.0	0.0
Août	4.5	1553.3	29.2	1522.0	0.0	100	0.0	0.0
Sep.	3.4	1121.7	304.3	803.7	0.0	98	0.0	0.0
Oct.	1.9	668.1	314.4	333.9	0.0	94	0.0	0.0
Nov.	1.1	368.0	304.3	47.8	0.0	90	0.0	0.0
Déc.	0.7	248.5	339.2	0.0	63.1	37	31.1	42.0
Année	3.0	12237.	2927.6	9263.3	117.6	86	5.0	78.4