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Pré-dimensionnement système isolé

Site géographique Brest/Guipavas Pays France

Situation Latitude 46.04° N Longitude -6.57° W

Temps défini comme Temps légal Fus. horaire TU+1 Altitude 99 m

Orientation plan capteurs Inclinaison 0° Azimut 0°

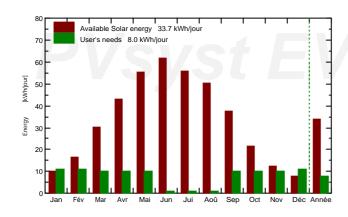
Horizon / Far shadings Average height 2.5°

System pre-sizing evaluation

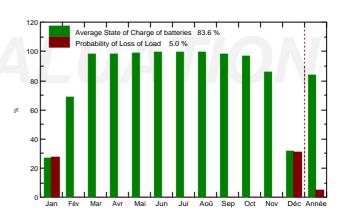
Average use of energy Daily 8.0 kWh/day Yearly 2936 kWh Autonomy Winter 4.0 days Summer 4.0 days Loss-of-Load Time fraction 5.0 % Missing energy 121 kWh Battery system Voltage 48 V Capacity 1073 Ah Nominal power 13.92 kWc 223 A PV array **Nominal Current**

Economic gross evaluation Investment 54454 EUR Energy price 1.66 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
	kWh/m².jr	kWh	kWh	kWh	kWh	%	%	liter
Jan.	0.9	319.0	339.2	0.0	55.1	27	27.8	36.8
Fév.	1.5	465.9	306.4	100.2	0.0	69	0.0	0.0
Mars	2.7	936.8	314.4	605.0	0.0	98	0.0	0.0
Avr.	3.9	1291.6	304.3	973.1	0.0	98	0.0	0.0
Mai	5.0	1719.9	314.4	1393.3	0.0	99	0.0	0.0
Juin	5.6	1858.0	28.3	1826.8	0.0	100	0.0	0.0
Jui.	5.0	1733.4	29.2	1702.2	0.0	100	0.0	0.0
Août	4.5	1562.1	29.2	1530.7	0.0	100	0.0	0.0
Sep.	3.4	1128.1	304.3	810.2	0.0	98	0.0	0.0
Oct.	1.9	671.9	314.4	338.9	0.0	97	0.0	0.0
Nov.	1.1	370.3	304.3	57.1	0.0	86	0.0	0.0
Déc.	0.7	250.0	339.2	0.0	65.5	32	30.7	43.6
Année	3.0	12306.	2927.6	9337.5	120.6	84	5.0	80.4