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Pré-dimensionnement système isolé

Site géographique Brest/Guipavas Pays France

SituationLatitude46.89° NLongitude-5.49° WTemps défini commeTemps légalFus. horaire TU+1Altitude99 m

Orientation plan capteurs Inclinaison 0° Azimut 0°

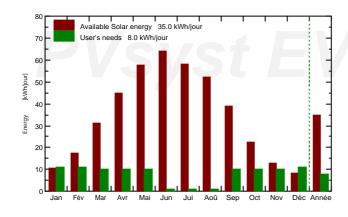
Horizon / Far shadings Average height 2.5°

System pre-sizing evaluation

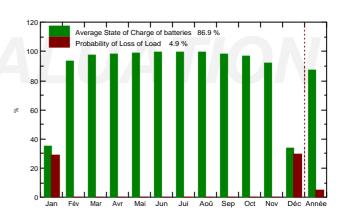
Average use of energy Daily 8.0 kWh/day Yearly 2936 kWh Autonomy Winter 4.0 days Summer 4.0 days 115 kWh Loss-of-Load Time fraction 4.9 % Missing energy Battery system Voltage 48 V Capacity 1073 Ah Nominal power 14.44 kWc 231 A PV array **Nominal Current**

Economic gross evaluation Investment 55801 EUR Energy price 1.68 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	330.8	339.2	0.0	54.7	35	28.6	36.4
Fév.	1.5	483.2	306.4	130.8	0.0	94	0.0	0.0
Mars	2.7	971.7	314.4	639.7	0.0	98	0.0	0.0
Avr.	3.9	1339.8	304.3	1021.0	0.0	98	0.0	0.0
Mai	5.0	1784.0	314.4	1457.1	0.0	99	0.0	0.0
Juin	5.6	1927.3	28.3	1896.1	0.0	100	0.0	0.0
Jui.	5.0	1798.0	29.2	1766.9	0.0	100	0.0	0.0
Août	4.5	1620.3	29.2	1588.9	0.0	100	0.0	0.0
Sep.	3.4	1170.2	304.3	852.1	0.0	98	0.0	0.0
Oct.	1.9	697.0	314.4	366.1	0.0	97	0.0	0.0
Nov.	1.1	384.1	304.3	69.2	0.0	92	0.0	0.0
Déc.	0.7	259.2	339.2	0.0	60.4	34	29.6	40.3
Année	3.0	12765.	2927.6	9787.9	115.1	87	4.9	76.7