

Scenario — PV
Old house to improve Austria - Inning 48.182, 15.417

Name	Slope °	Azimuth °	Wp	Wall d/h m	Face	Bifacial	Wp counted
Total counted			0				

Location: My most visited location in “lower Austria”, just at the Tesla SuC.
Database PVGIS-SARAH3 2005-2023 loss 14 % azimuth 0 = south, 90 = west, -90 = east.
Price bands and charts use UTC+1 from longitude (15° per hour), not the political time zone.
Peak hour 2005-01-01 01:10 local (00:10 UTC) 0 W 0.000 W/Wp of 0 Wp.
Database gaps: 0 days with 0 yield while the sun reached the horizon at noon. Yield charts skip them. The simulation uses the lowest-yield day of that month.
Sell when the export price is above 0. At 0 cent export PV yield only, not the battery. Do not sell when the earning is negative. At 15:00 winter time, battery export is only the kWh that would not fit in the next 72 h.



Scenario — house, heat pump, battery
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Chapter	Parameter	Value
Building	Design out / in / heat	-10.0 °C / 20.0 °C / 4000.0 W
	Heat on / cool on / ground	20.0 °C / 25.0 °C / 10.0 °C
	Curve / flow min / max	1.0 / 25.0 °C / 55.0 °C
	Thermal mass of the house	25.0 kWh/K
	Household only	4.0 kWh/day
DHW	Litres at 40 °C / tank	200.0 L tank 62.0 °C 8-18 h
	Water out of the pipe Q1-Q4	8 °C 10 °C 12 °C 10 °C
Heat pump	Source	air
	COP –10/0/10 @ 35 °C	2.4 3.4 4.5
	COP –10/0/10 @ 50 °C	1.9 2.6 3.3
	kW –10/0/10 @ 35 °C	4 5 6
	kW –10/0/10 @ 50 °C	3.5 4.5 5
Battery	kWh / C-rate / SOC min-max-start	0.0 kWh C 0.5 5 / 95 / 50 %
	Nameplate	—
	Charge / discharge η	95 % / 90 %
Grid	Inverter / grid connection	5.0 kW / 5.0 kW
	Max export	17.0 kW
	Import cap Jan-Jun kW	Jan 11 Feb 11 Mar 11 Apr 11 May 11 Jun 11
	Import cap Jul-Dec kW	Jul 11 Aug 11 Sep 11 Oct 11 Nov 11 Dec 11
Cars	Lunch DC / night AC	0.0 kWh @ 30.0 kW night 10.0 kWh @ 4.0 kW

Records 1-10 — contribution of each PV
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PV	2005-01-01 00:10	2005-01-01 01:10	2005-01-01 02:10	2005-01-01 03:10	2005-01-01 04:10	2005-01-01 05:10	2005-01-01 06:10	2005-01-01 07:10	2005-01-01 08:10	2005-01-01 09:10
Watt at record	0	0	0	0	0	0	0	0	0	0
Percent of installed peak	—	—	—	—	—	—	—	—	—	—

Hours at or above a share of the record
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Of the record	Hours	Watts
98 %	0	0 W
96 %	0	0 W
94 %	0	0 W
92 %	0	0 W
90 %	0	0 W