

HISTORIC SIMULATION REPORT

South France- Marseille

Workspace

Site location

South France- Marseille
(43.30, 5.37) · UTC

Battery

10 (10 kWh)

Inverter

Fox ESS H1-5.0-E (5 kW)

Solar Arrays

solar10 (Jinko Tiger Neo 54HL4R 445W, 10 panels, 4.5 kW)

Load profile

household load 2800 (2,800 kWh/yr)

Heat pump

Valiant (space 1,426 kWh · hot water 673 kWh)

Tariff

fixed
 import: 0.28 · export: 0.12 ·
 daily standing: 0.60

Summary

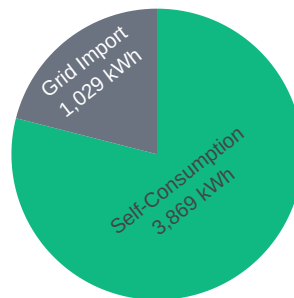
☀️ Solar Generated	6,893 kWh	(6,893 (utilised) + 0 (clipped))
📶 Load Consumed	4,898 kWh	1,372 GBP (cost without solar)
🔧 Space heating (heat pump)	1,426 kWh	
🔧 Hot water (heat pump)	673 kWh	
🔌 Grid Import	1,029 kWh	288 GBP
🔌 Grid Export	2,943 kWh	353 GBP
\$ Total benefit from solar & battery	1,437 GBP	
\$ New electricity bill	154 GBP (288 (import) - 353 (export) + 219 (standing))	

Self-Consumption

Share of load met from PV and batteries vs grid import.

79.0%

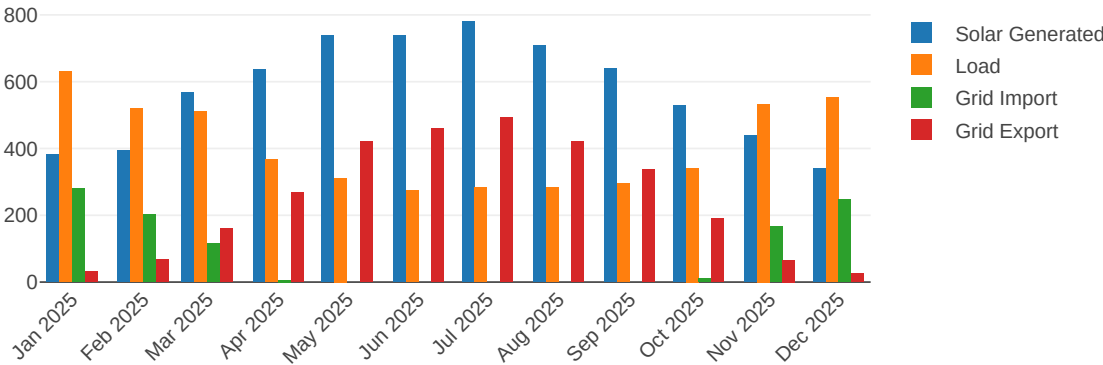
Spring: 89.7% Summer: 100.0%
 Autumn: 84.8% Winter: 57.1%



Yearly Summary

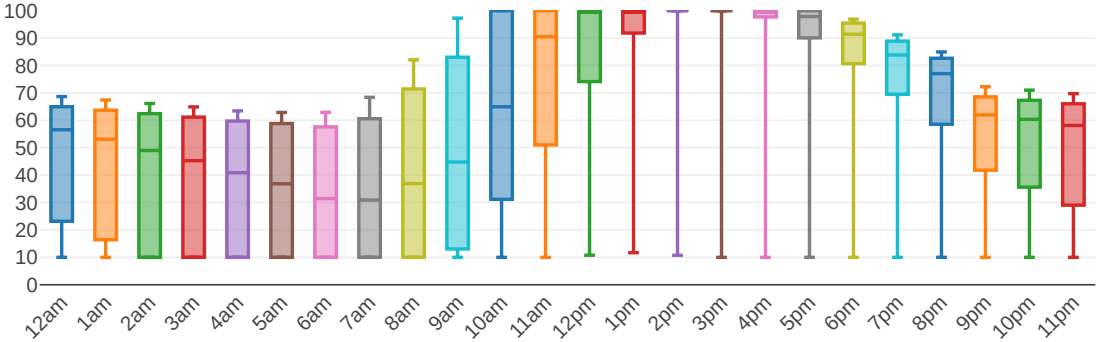
Monthly Energy Totals

Energy flows by month: solar, load, grid import, grid export.



SOC Distribution by Hour

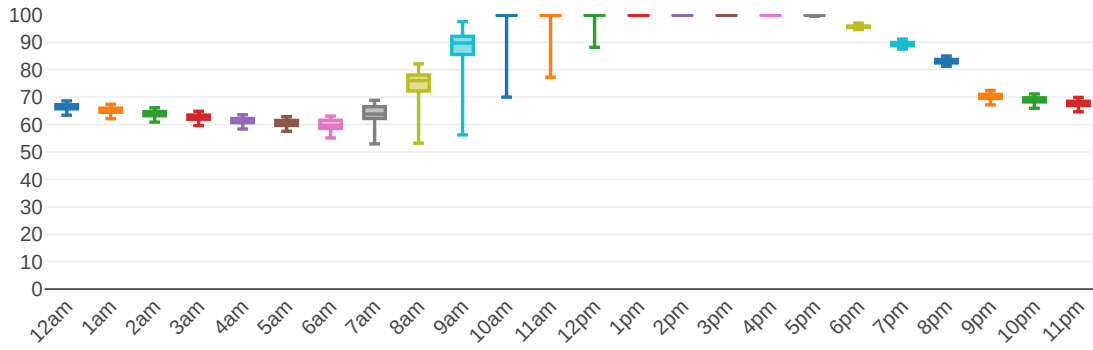
Spread of battery charge levels by hour (box plot).



Summer Monthly Summary

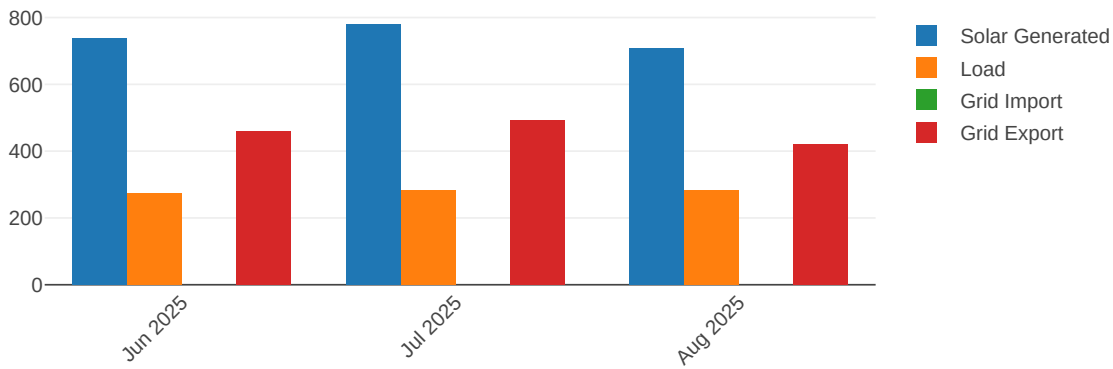
Summer SOC Distribution by Hour

Spread of battery charge levels by hour for June, July, August.



Summer Energy Totals by Month

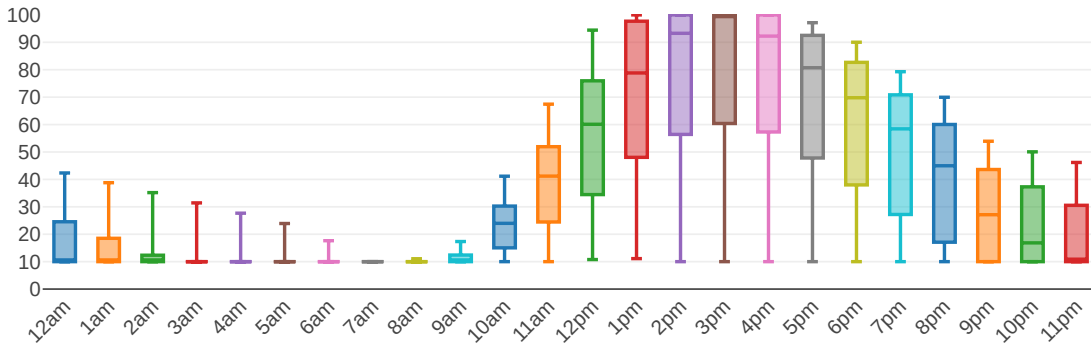
Energy flows for June, July, August: solar, load, grid import, grid export.



Winter Monthly Summary

Winter SOC Distribution by Hour

Spread of battery charge levels by hour for December, January, February.



Winter Energy Totals by Month

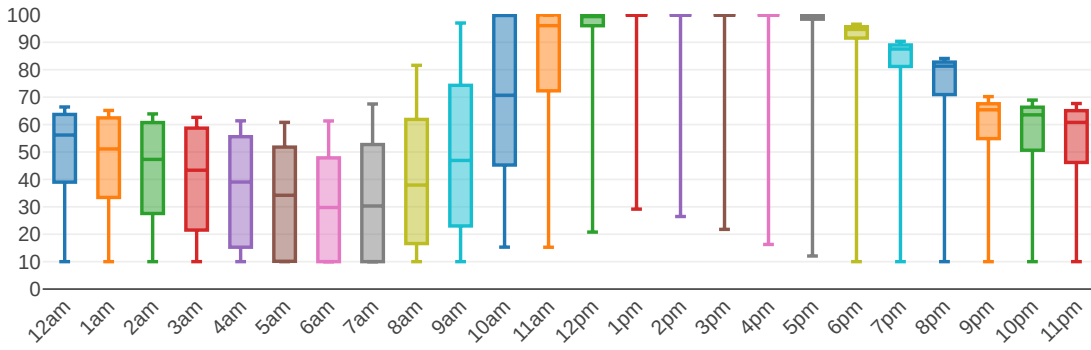
Energy flows for December, January, February: solar, load, grid import, grid export.



Spring Monthly Summary

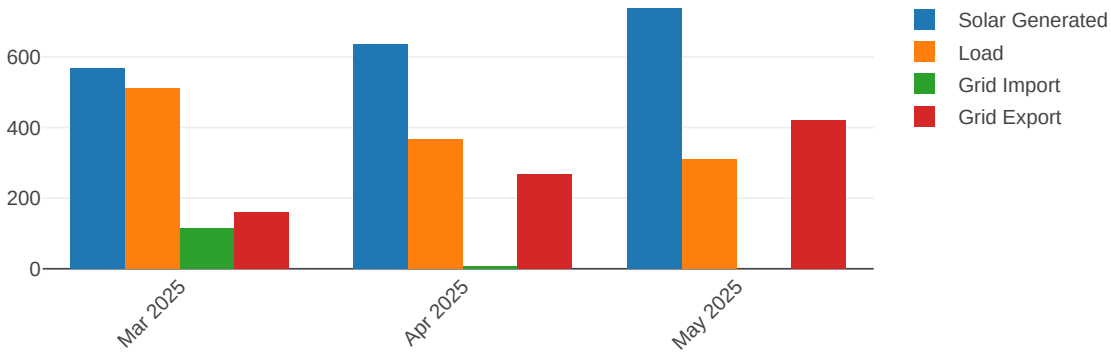
Spring SOC Distribution by Hour

Spread of battery charge levels by hour for March, April, May.



Spring Energy Totals by Month

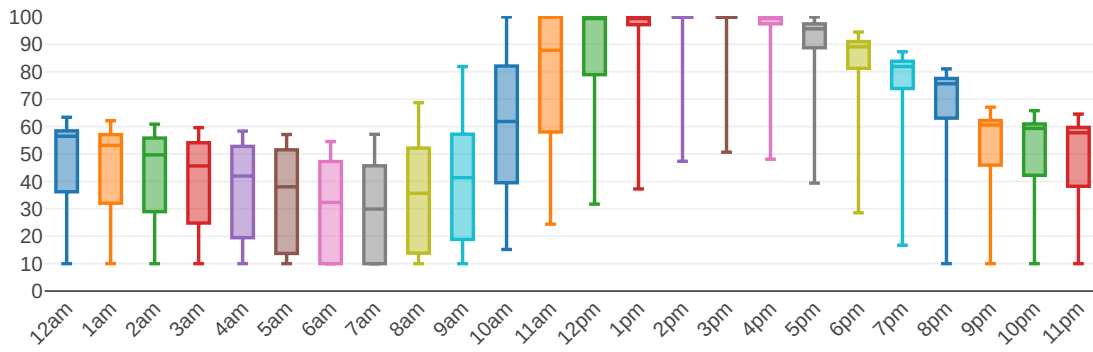
Energy flows for March, April, May: solar, load, grid import, grid export.



Autumn Monthly Summary

Autumn SOC Distribution by Hour

Spread of battery charge levels by hour for September, October, November.



Autumn Energy Totals by Month

Energy flows for September, October, November: solar, load, grid import, grid export.

