

Workspace

Site location

Glasgow (55.86, -4.25) · 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 4,043 kWh · hot water 797 kWh)

Tariff

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

Summary

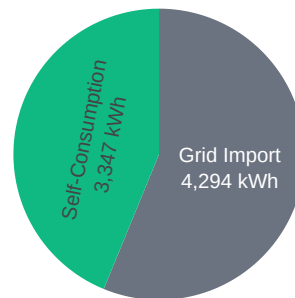
☀️ Solar Generated	4,391 kWh	(4,391 (utilised) + 0 (clipped))
⚡ Load Consumed	7,640 kWh	2,139 GBP (cost without solar)
🔧 Space heating (heat pump)	4,043 kWh	
🔧 Hot water (heat pump)	797 kWh	
🔌 Grid Import	4,294 kWh	1,202 GBP
🔌 Grid Export	987 kWh	118 GBP
\$ Total benefit from solar & battery		1,055 GBP
\$ New electricity bill		1,303 GBP (1,202 (import) - 118 (export) + 219 (standing))

Self-Consumption

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

43.8%

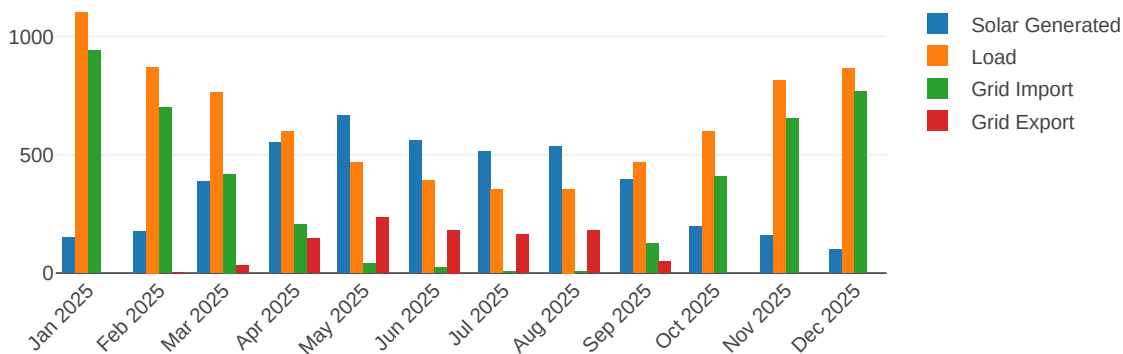
Spring: 63.6% Summer: 96.6%
Autumn: 36.9% Winter: 15.2%



Yearly Summary

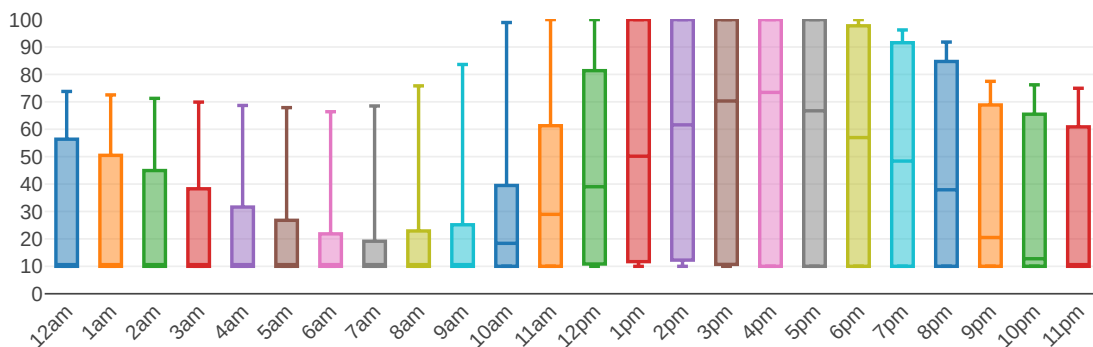
Monthly Energy Totals

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



SOC Distribution by Hour

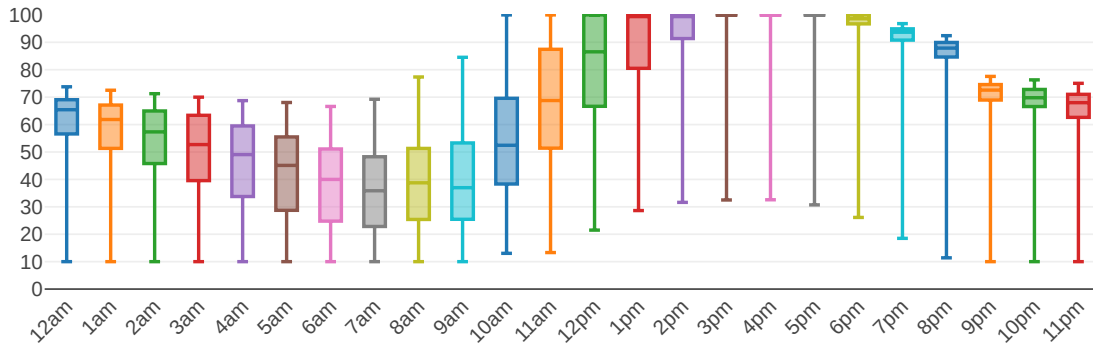
Spread of battery charge levels by hour (box plot).



Summer Monthly Summary

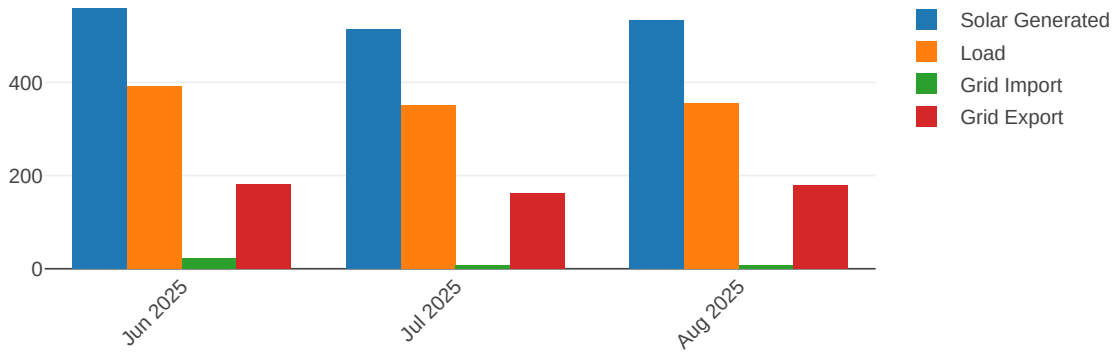
Summer SOC Distribution by Hour

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



Summer Energy Totals by Month

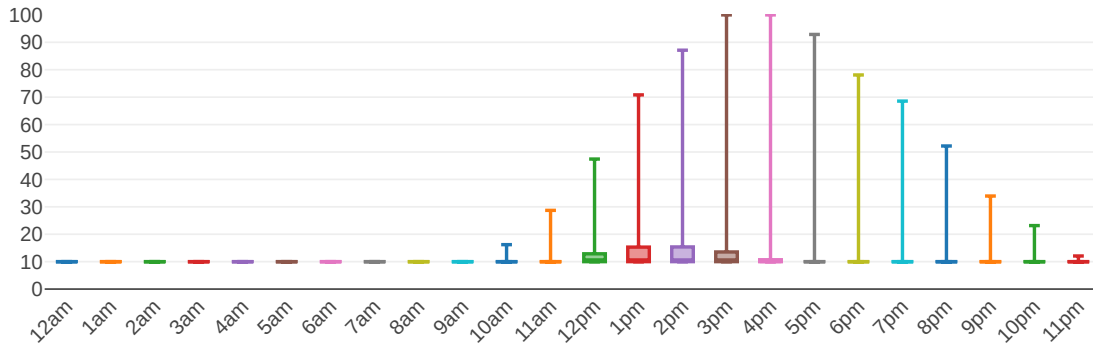
Energy flows for June, July, August: solar, load, grid import, grid export.



Winter Monthly Summary

Winter SOC Distribution by Hour

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



Winter Energy Totals by Month

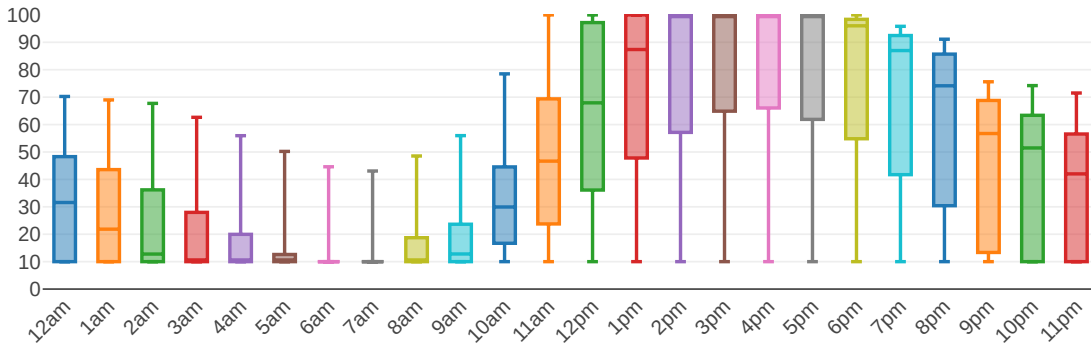
Energy flows for December, January, February: solar, load, grid import, grid export.



Spring Monthly Summary

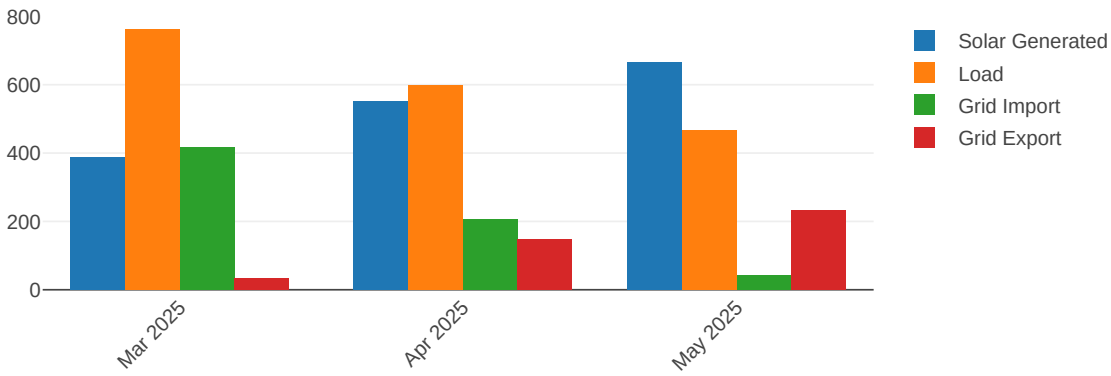
Spring SOC Distribution by Hour

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



Spring Energy Totals by Month

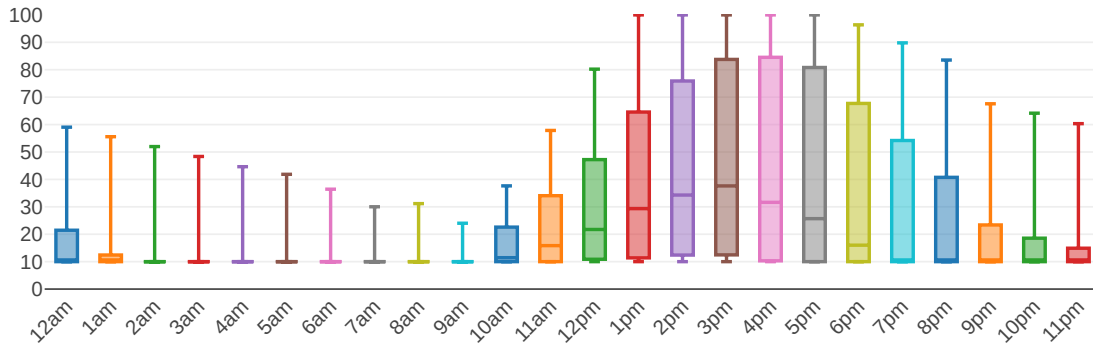
Energy flows for March, April, May: solar, load, grid import, grid export.



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.

