

HISTORIC SIMULATION REPORT

3.68kW Inverter

Workspace

Site location

home (51.89, -2.19) · UTC

Battery

fox ep12 (12 kWh)

Inverter

export limited 3.68 (3.7 kW)

Solar Arrays

Southx18 (Jinko Tiger Neo 54HL4R 445W, 18 panels, 8 kW)





Load profile

household load (5,500 kWh/yr)

Tariff

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

Summary

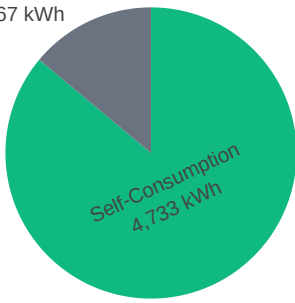
| | | |
|--|--|---------------------------------------|
|  Solar Generated | 8,101 kWh | (8,101 (utilised) + 881 (clipped)) |
|  Load Consumed | 5,500 kWh | 1,540 GBP (cost without solar) |
|  Grid Import | 767 kWh | 215 GBP |
|  Grid Export | 3,277 kWh | 393 GBP |
| \$ Total benefit from solar & battery | 1,719 GBP | |
| \$ New electricity bill | 40 GBP (215 (import) - 393 (export) + 219 (standing)) | |

Self-Consumption

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

86.1%

Spring: 99.1% Summer: 100.0%
Autumn: 84.2% Winter: 60.4%



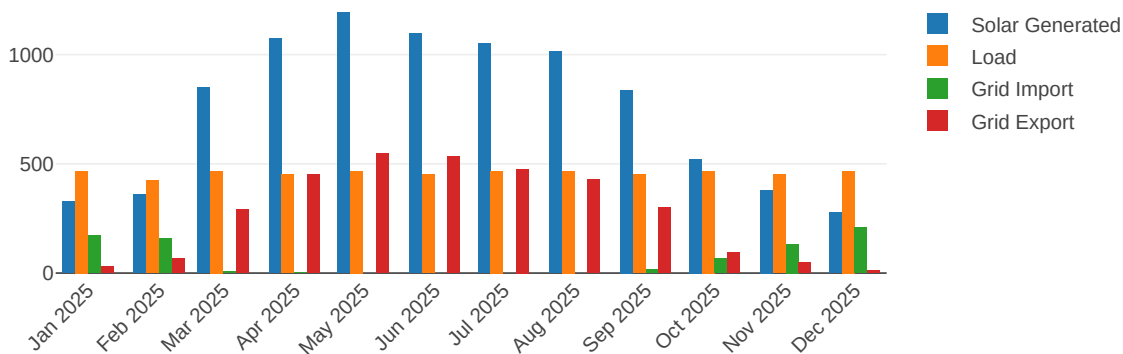
Grid Import
767 kWh

Self-Consumption
4,733 kWh

Yearly Summary

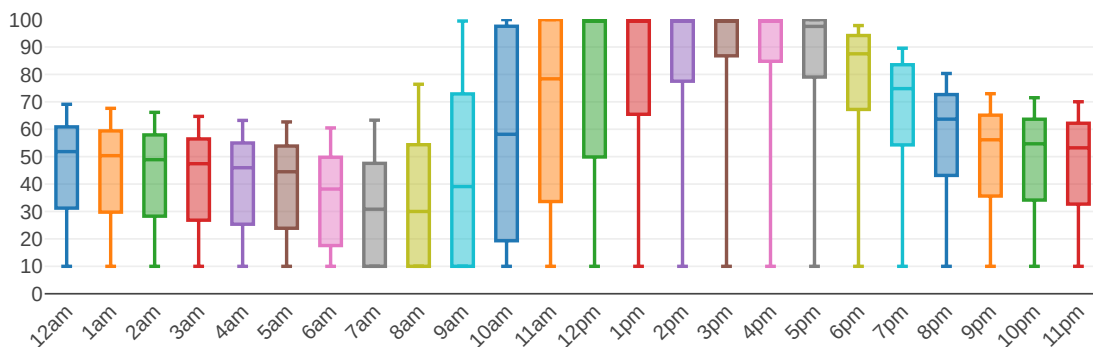
Monthly Energy Totals

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



SOC Distribution by Hour

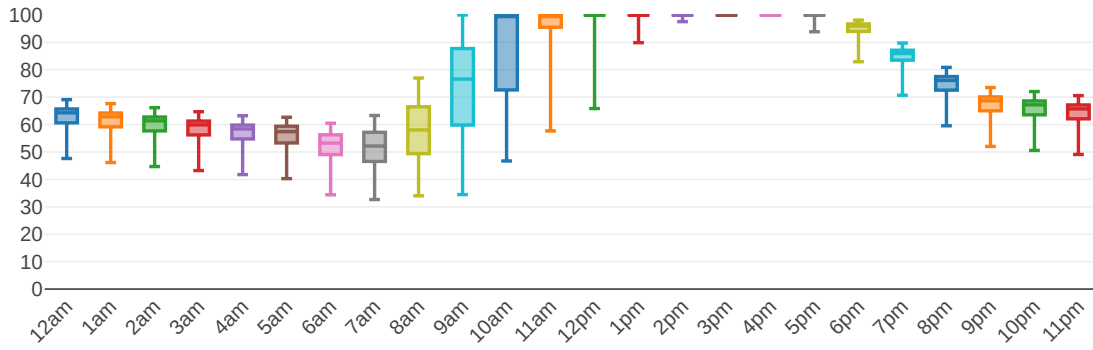
Spread of battery charge levels by hour (box plot).



Summer Monthly Summary

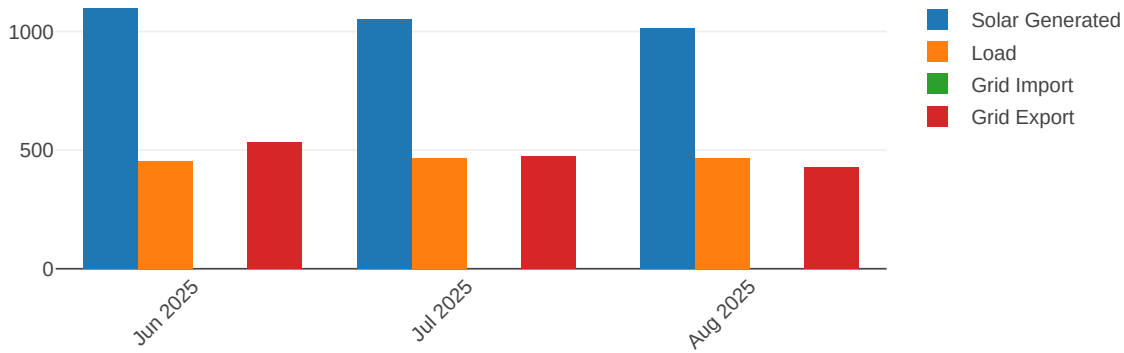
Summer SOC Distribution by Hour

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



Summer Energy Totals by Month

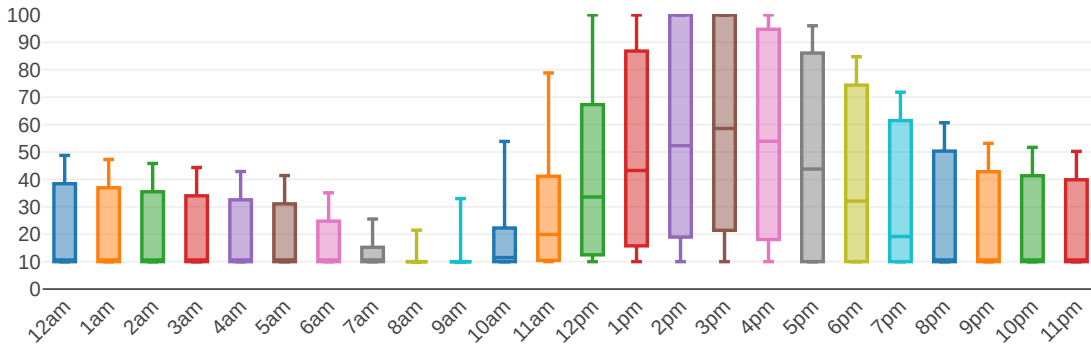
Energy flows for June, July, August: solar, load, grid import, grid export.



Winter Monthly Summary

Winter SOC Distribution by Hour

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



Winter Energy Totals by Month

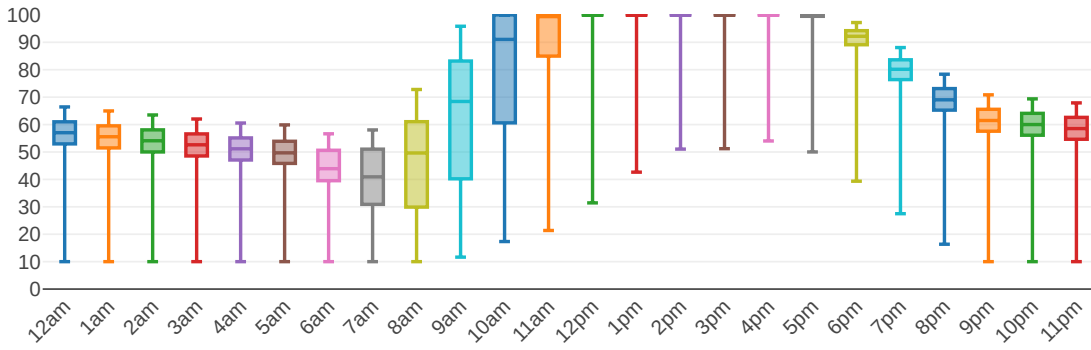
Energy flows for December, January, February: solar, load, grid import, grid export.



Spring Monthly Summary

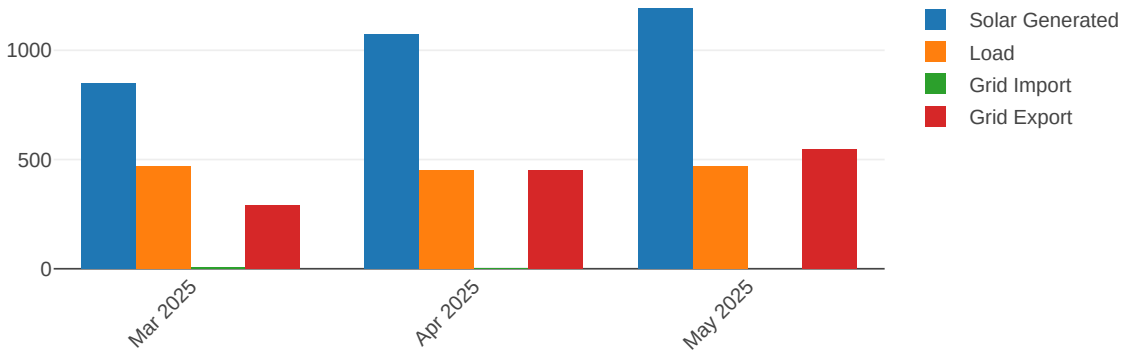
Spring SOC Distribution by Hour

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



Spring Energy Totals by Month

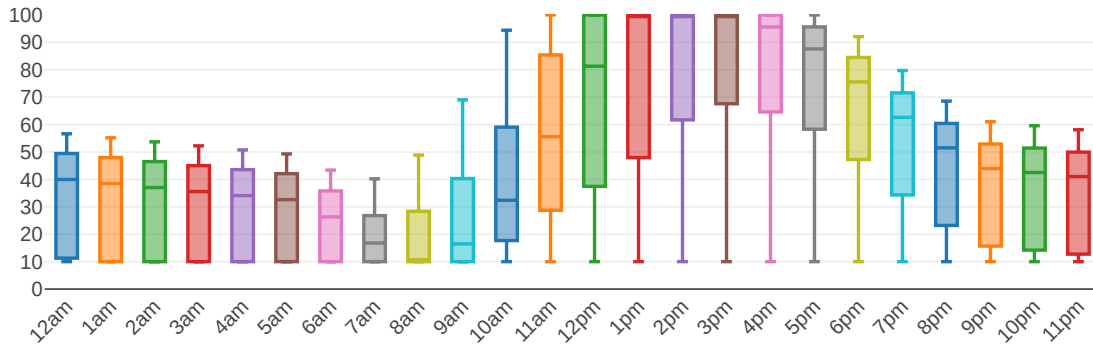
Energy flows for March, April, May: solar, load, grid import, grid export.



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.

