

Morning/ evening peak load with no battery

Workspace

Site location

UK (Glos) (51.86, -2.25) · UTC

Battery

No battery selected

Inverter

Generic 5 (5 kW)

Solar Arrays

solar (Generic 445W, 8 panels, 3.6 kW)





Load profile

Morning/ evening load (3,500 kWh/yr)

Tariff

Economy 7
import: 0.12, 0.29 · export: 0.12
· daily standing: 0.60

Summary

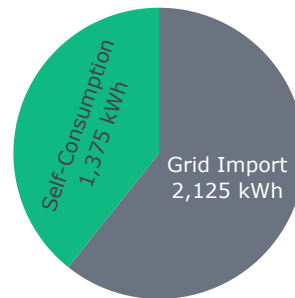
 Solar Generated	3,977 kWh	(3,977 (utilised) + 0 (clipped))
 Load Consumed	3,500 kWh	935 GBP (cost without solar)
 Grid Import	2,125 kWh	540 GBP
 Grid Export	2,602 kWh	312 GBP
\$ Total benefit from solar & battery	708 GBP	
\$ New electricity bill	447 GBP (540 (import) - 312 (export) + 219 (standing))	

Self-Consumption

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

39.3%

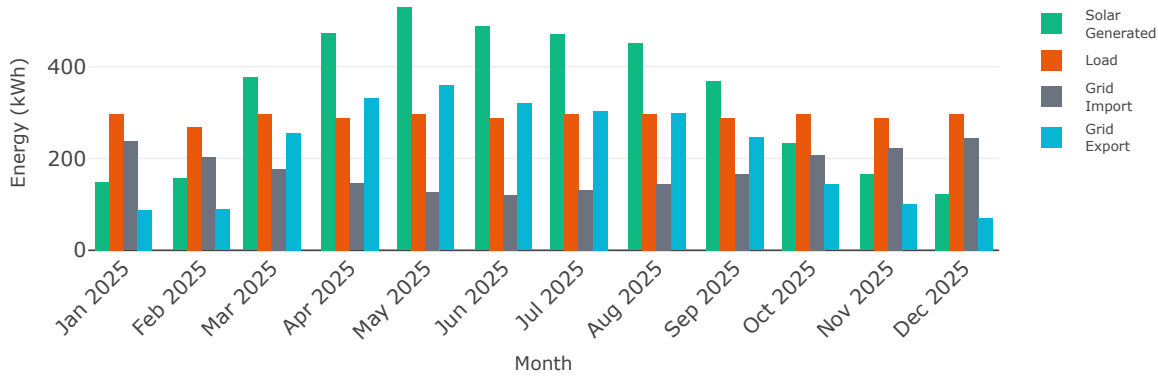
Spring: 49.0% Summer: 55.2%
Autumn: 31.7% Winter: 20.8%



Yearly Summary

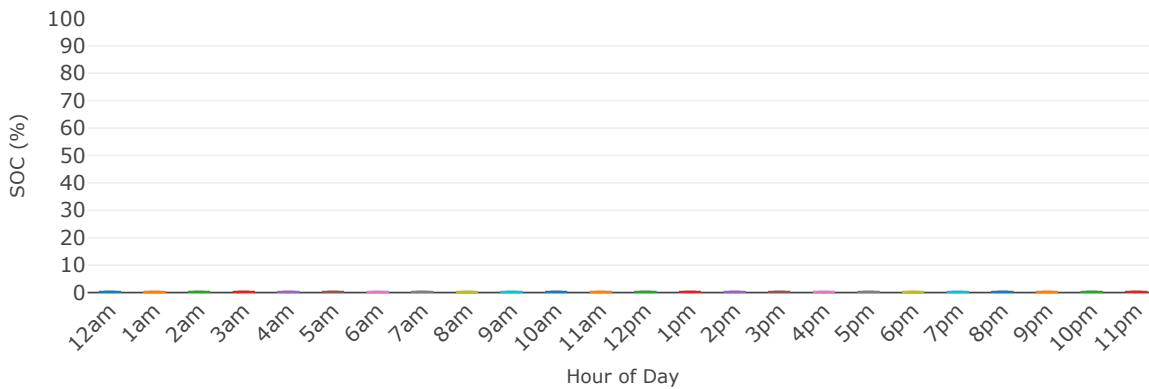
Monthly Energy Totals

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



SOC Distribution by Hour

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



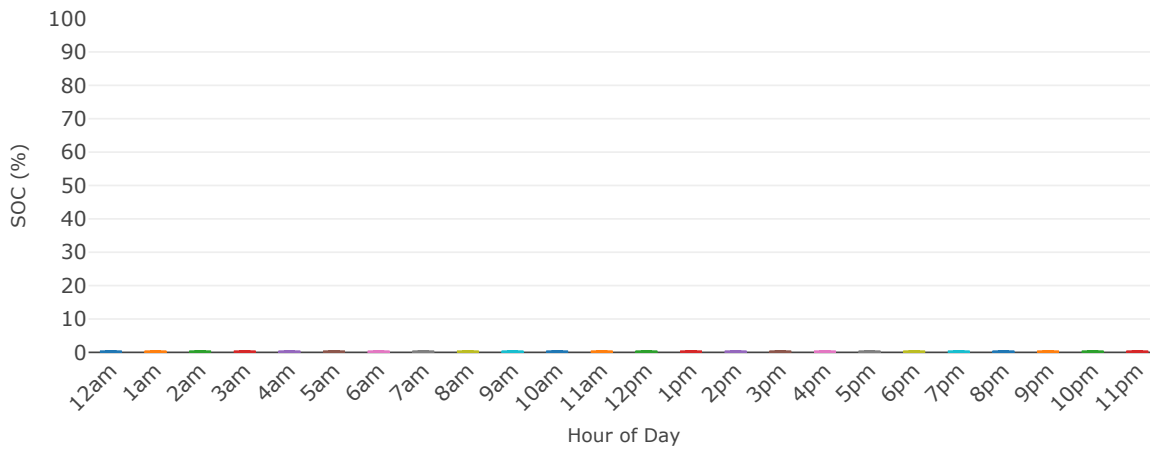
Monthly Summary

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Solar Generated kWh	148	156	376	473	528	488	470	450	368	233	165	122
Load kWh	297	269	297	288	297	288	297	297	288	297	288	297
Grid Import kWh	236	202	177	146	127	120	131	145	166	208	223	245
Grid Export kWh	87	89	256	331	358	320	304	297	246	144	100	70

Summer Monthly Summary

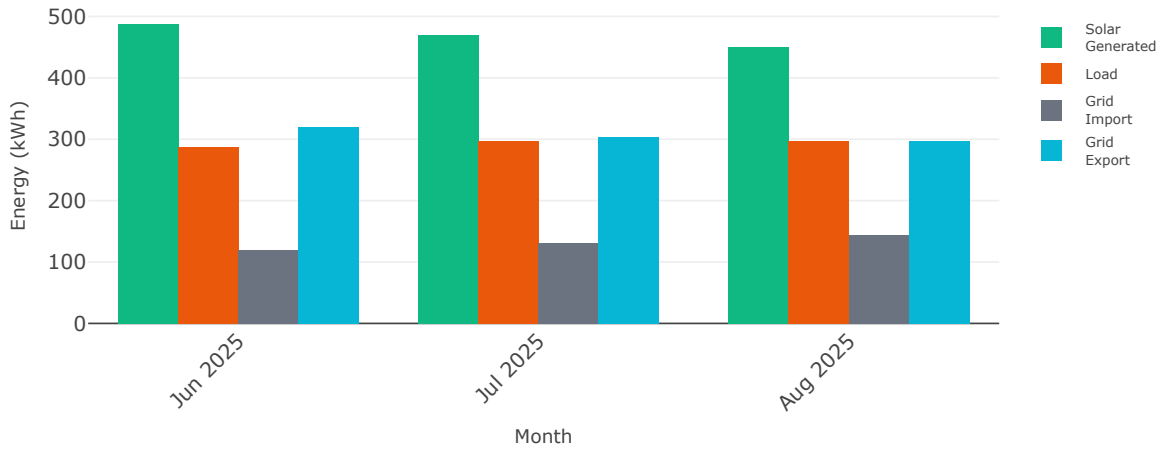
Summer SOC Distribution by Hour

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



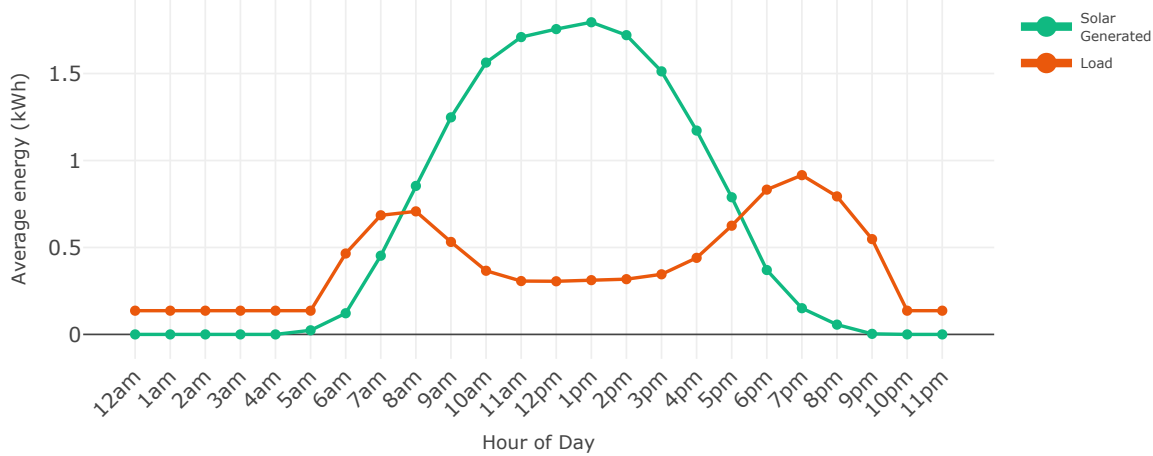
Summer Energy Totals by Month

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



Summer Hourly Average Energy

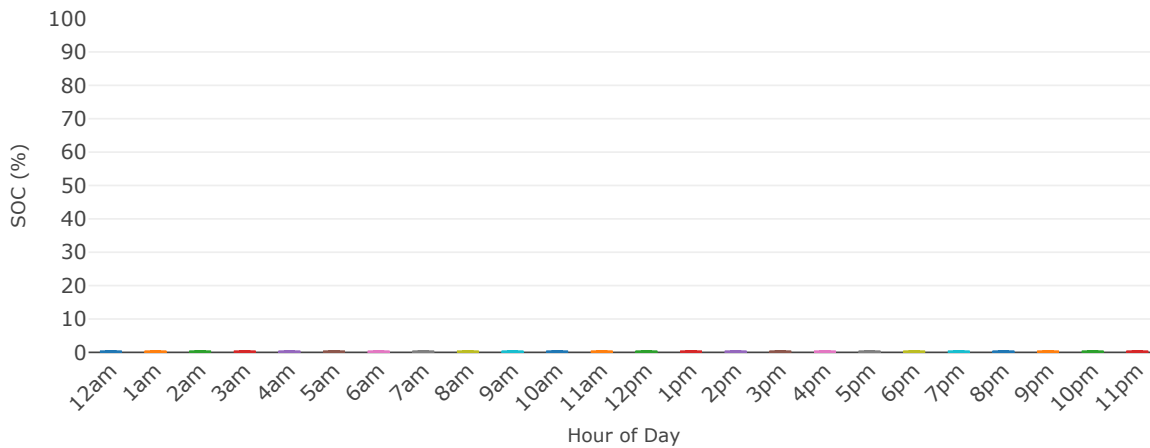
Average hourly solar generation vs load for that season's months.



Winter Monthly Summary

Winter SOC Distribution by Hour

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



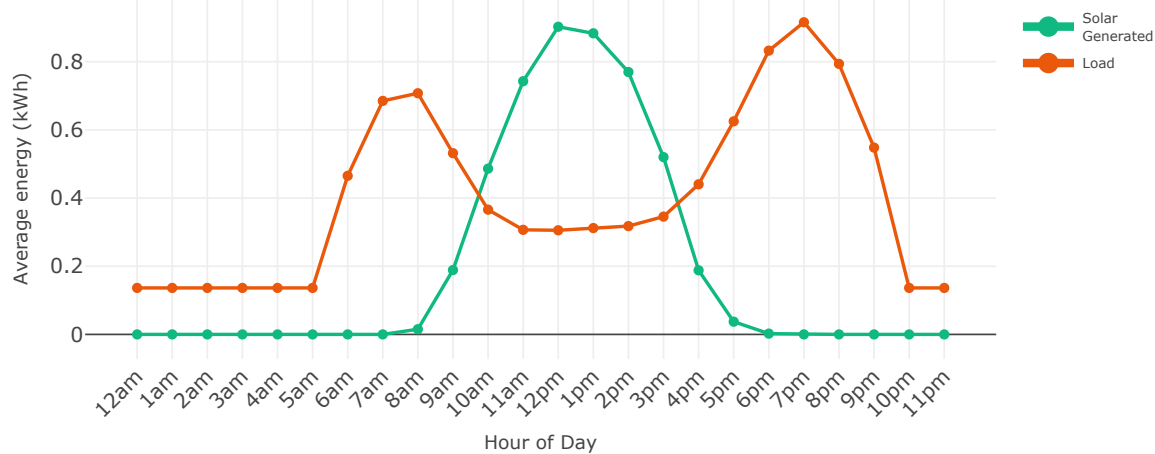
Winter Energy Totals by Month

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



Winter Hourly Average Energy

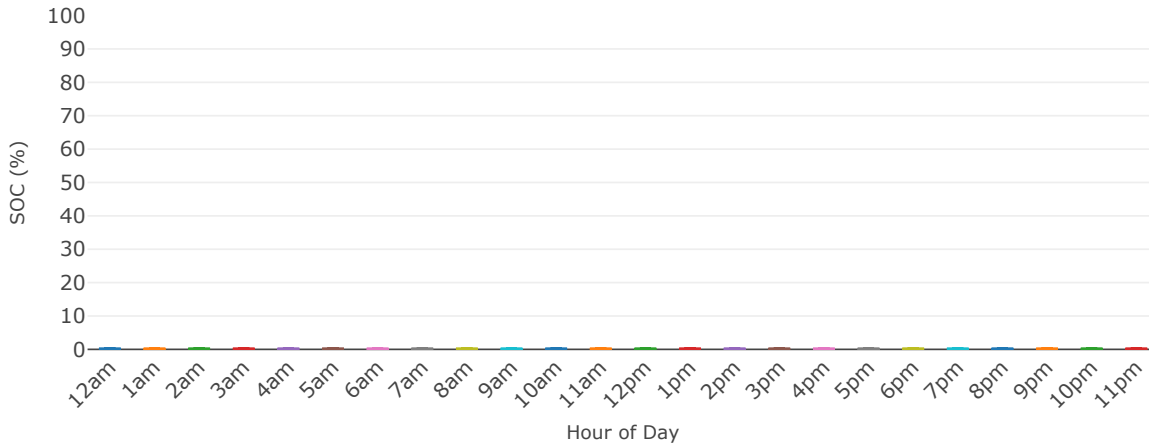
Average hourly solar generation vs load for that season's months.



Spring Monthly Summary

Spring SOC Distribution by Hour

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



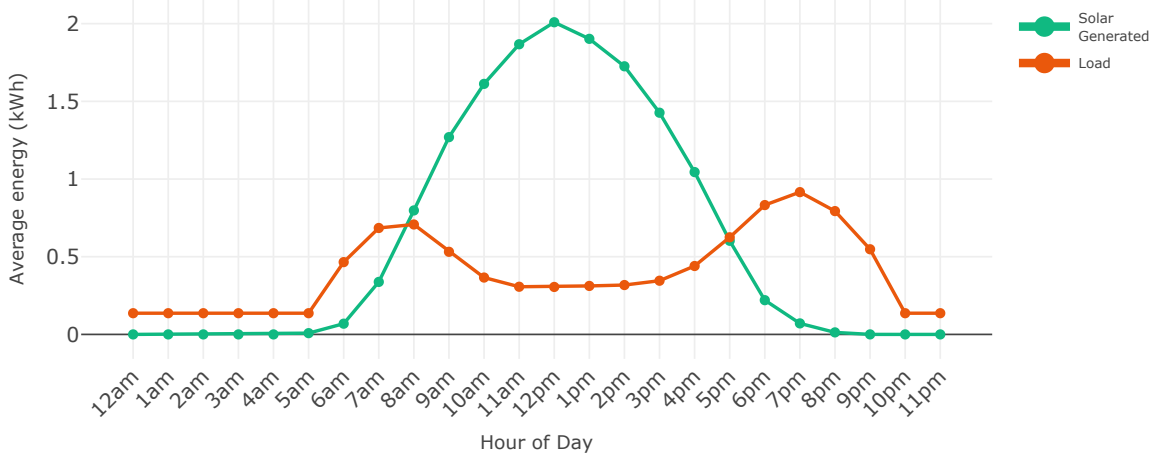
Spring Energy Totals by Month

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



Spring Hourly Average Energy

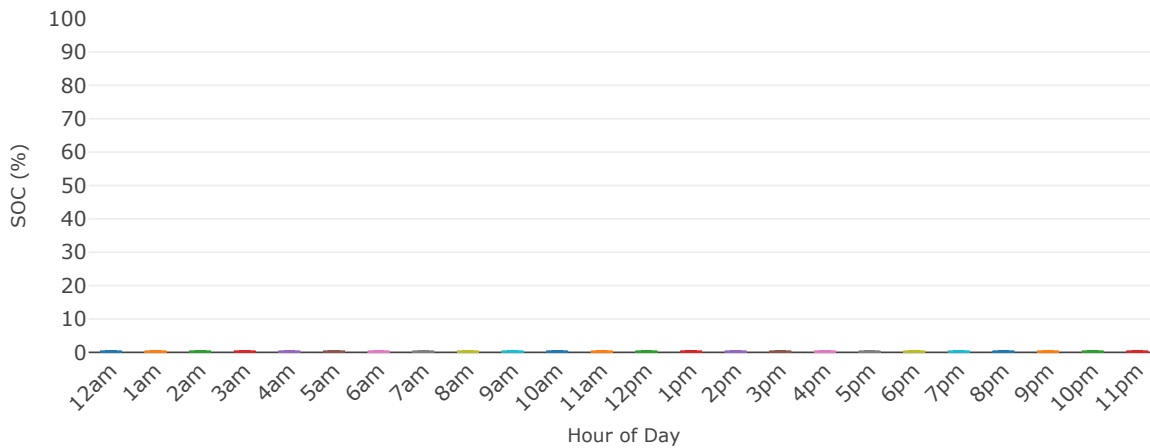
Average hourly solar generation vs load for that season's months.



Autumn Monthly Summary

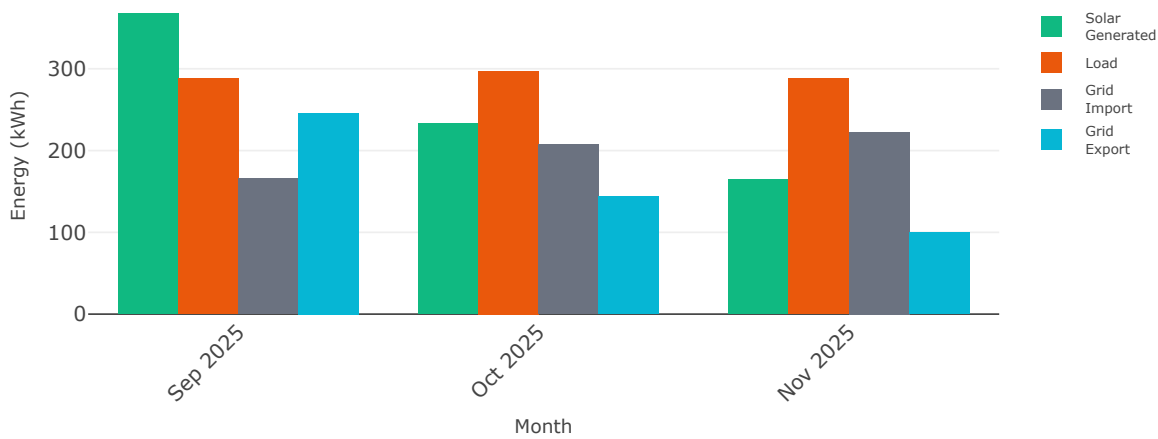
Autumn SOC Distribution by Hour

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.



Autumn Hourly Average Energy

Average hourly solar generation vs load for that season's months.

