

# Flat load profile 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**

flat load (3,500 kWh/yr)

**Tariff**

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

## Summary

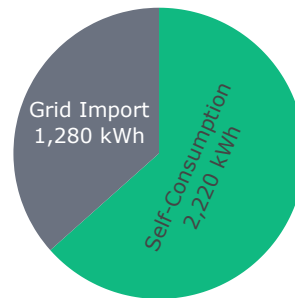
 Solar Generated	<b>3,977 kWh</b>	(3,977 (utilised) + 0 (clipped))
 Load Consumed	<b>3,500 kWh</b>	<b>956 GBP</b> (cost without solar)
 Grid Import	<b>1,280 kWh</b>	<b>315 GBP</b>
 Grid Export	<b>1,757 kWh</b>	<b>211 GBP</b>
<b>\$</b> Total benefit from solar & battery	<b>852 GBP</b>	
<b>\$</b> New electricity bill	<b>323 GBP</b> (315 (import) - 211 (export) + 219 (standing))	

## Self-Consumption

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

# 63.4%

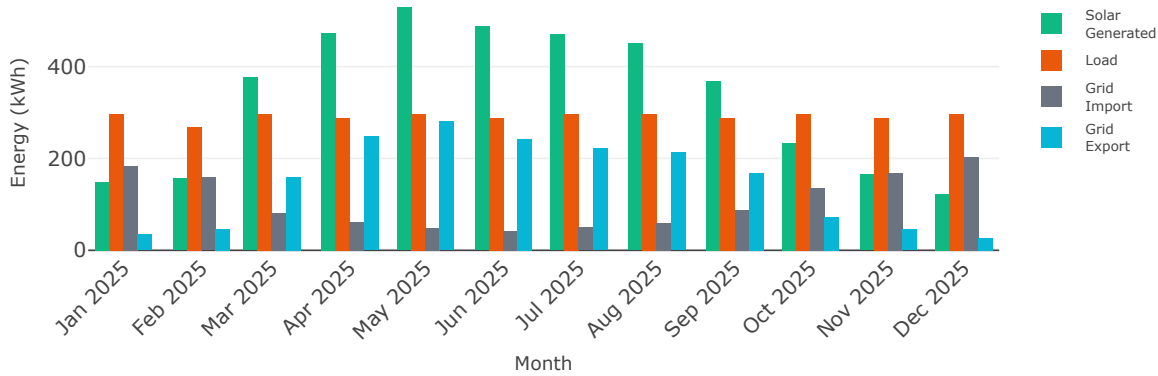
Spring: 78.2%   Summer: 82.8%  
Autumn: 55.1%   Winter: 36.9%



# Yearly Summary

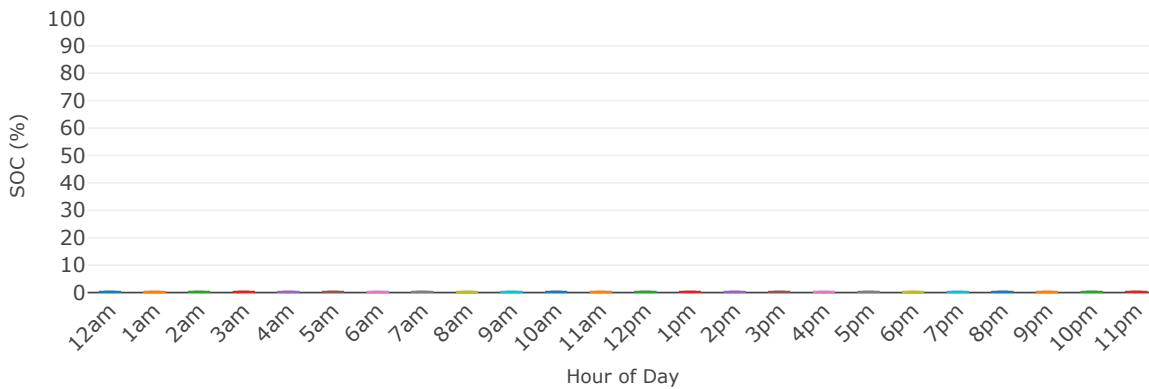
## Monthly Energy Totals

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



## SOC Distribution by Hour

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



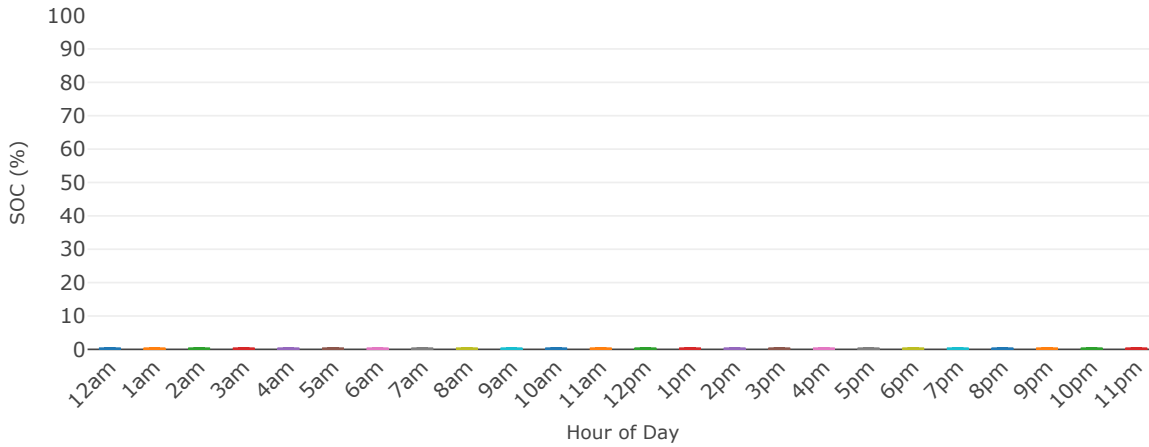
## Monthly Summary

	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	184	158	81	62	49	42	49	60	88	136	168	203
Grid Export kWh	35	46	160	247	280	242	222	213	168	72	45	27

# Summer Monthly Summary

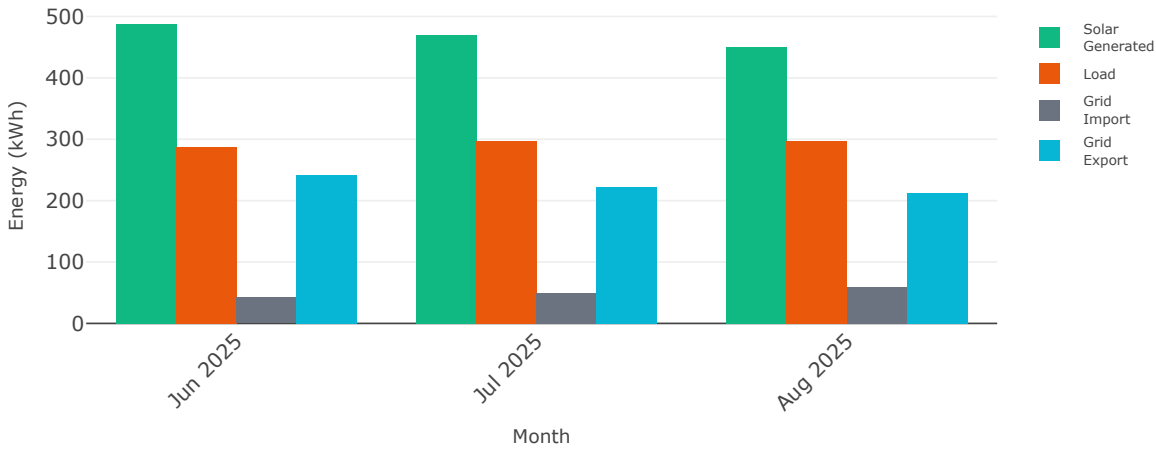
## Summer SOC Distribution by Hour

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



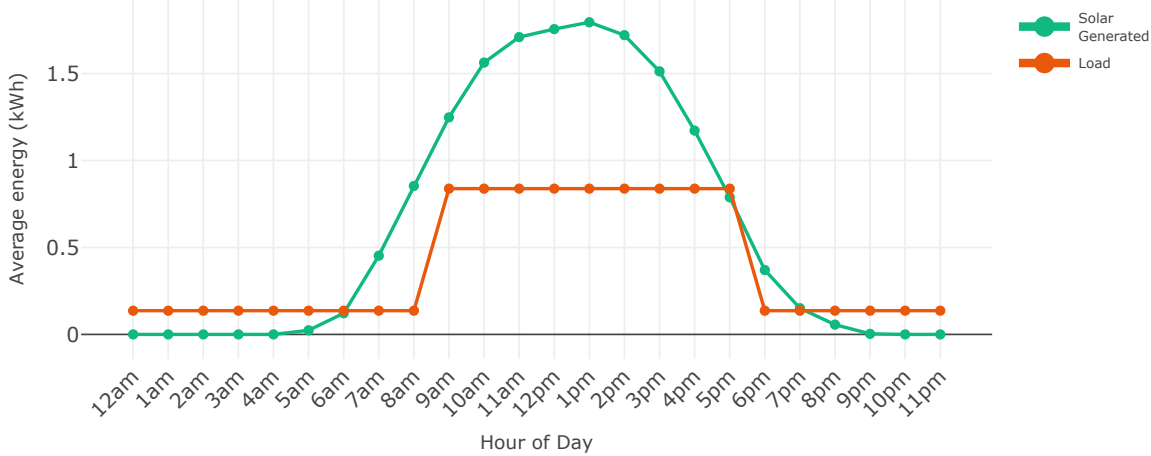
## Summer Energy Totals by Month

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



## Summer Hourly Average Energy

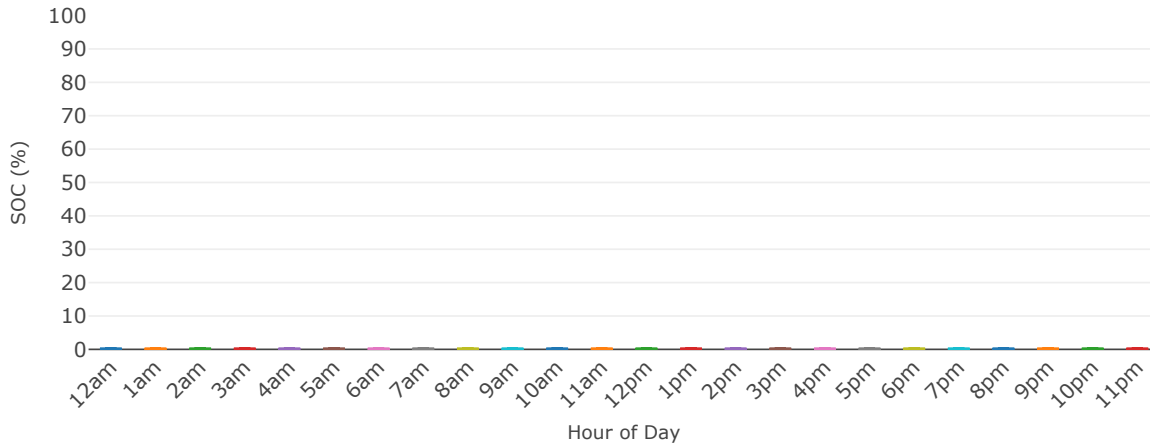
Average hourly solar generation vs load for that season's months.



# Winter Monthly Summary

## Winter SOC Distribution by Hour

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



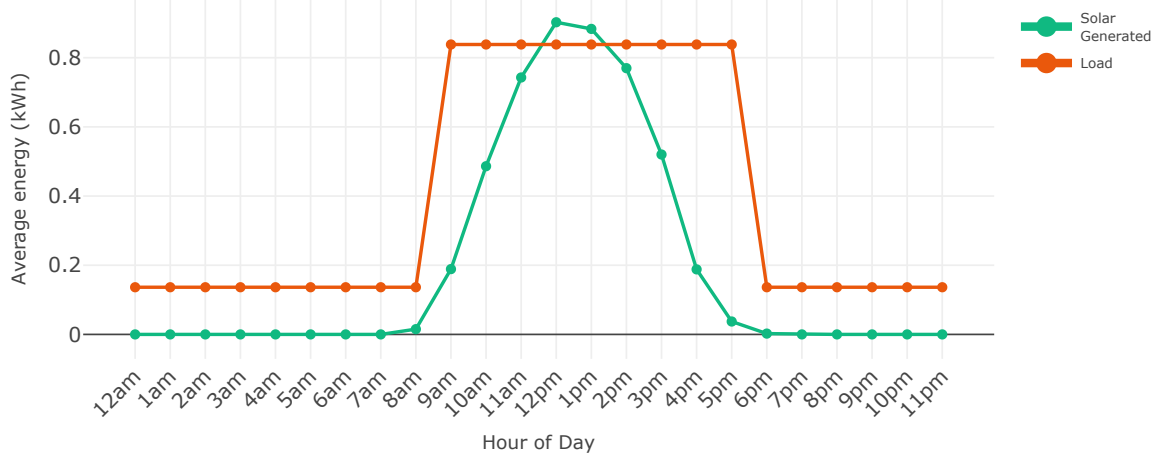
## Winter Energy Totals by Month

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



## Winter Hourly Average Energy

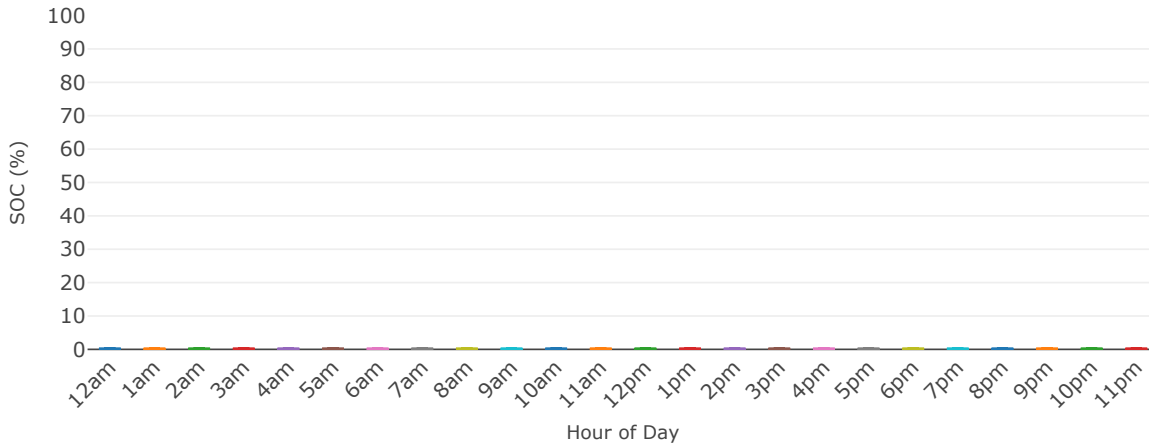
Average hourly solar generation vs load for that season's months.



# Spring Monthly Summary

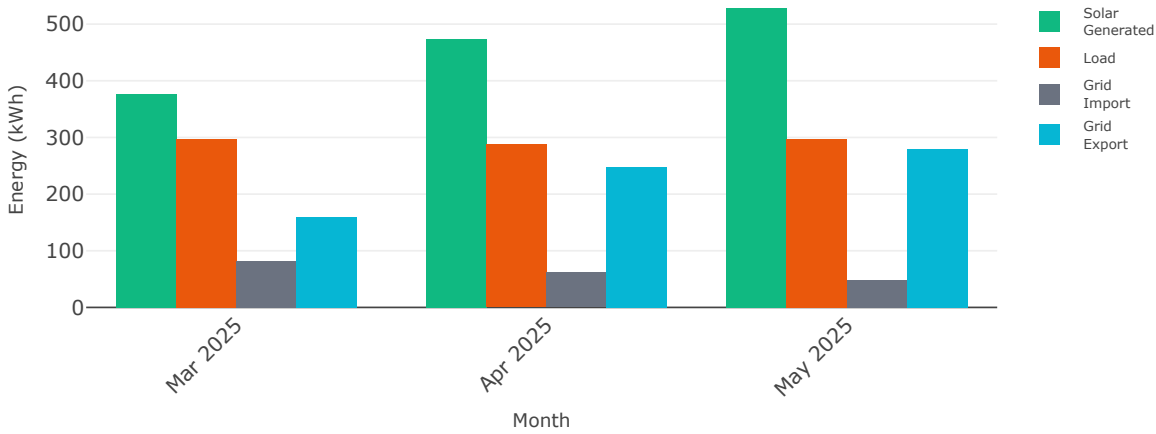
## Spring SOC Distribution by Hour

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



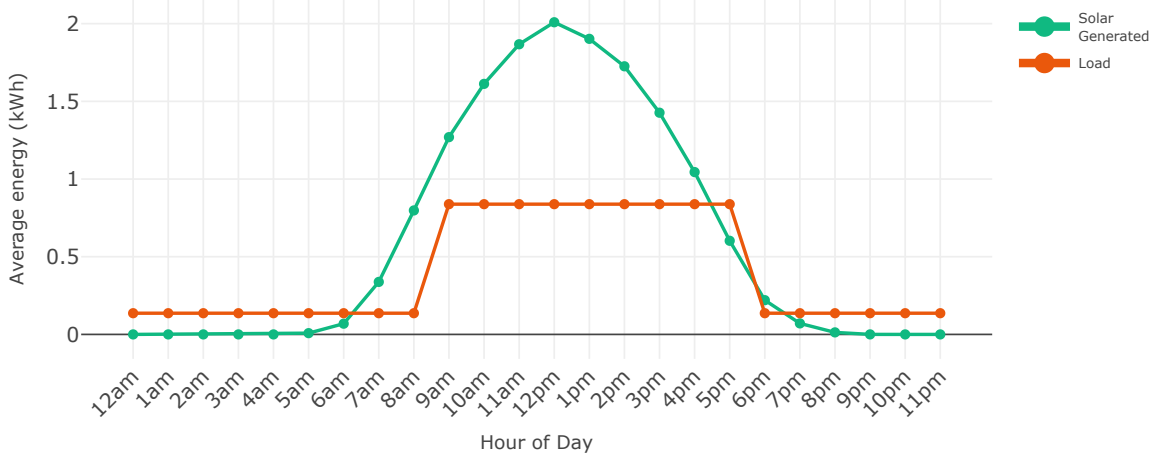
## Spring Energy Totals by Month

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



## Spring Hourly Average Energy

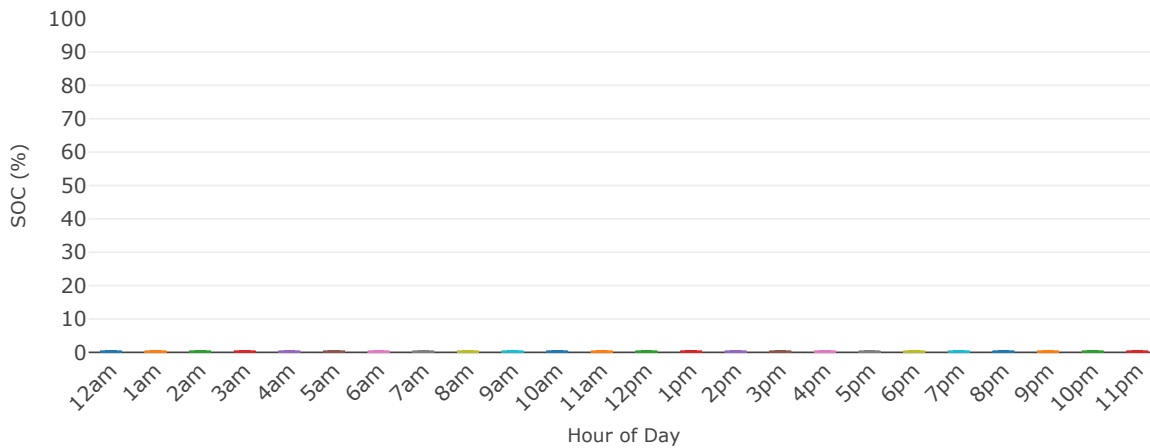
Average hourly solar generation vs load for that season's months.



# 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.

