

# Battery only

## Workspace

**Site location**

UK-Gloucester (51.89, -2.19) · UTC

**Battery**

10 (10 kWh)

**Inverter**

generic5 (5 kW)

setpoints: eco7 charge (7 periods)

**Solar Arrays**

No solar selected

**Load profile**

house load (3,500 kWh/yr)

**Tariff**

Economy 7  
import: 0.15, 0.30 · export: 0.12  
· daily standing: 0.60

Summary		
☀️ Solar Generated	<b>0 kWh</b>	(0 (utilised) + 0 (clipped))
⚡ Load Consumed	<b>3,500 kWh</b>	<b>980 GBP</b> (cost without solar)
🔌 Grid Import	<b>3,627 kWh</b>	<b>544 GBP</b>
🔌 Grid Export	<b>0 kWh</b>	<b>0 GBP</b>
💰 Total benefit from solar & battery	<b>436 GBP</b>	
💰 New electricity bill	<b>763 GBP</b> (544 (import) - 0 (export) + 219 (standing))	

### Self-Consumption

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

-3.6%

Spring: -3.6%    Summer: -3.6%  
Autumn: -3.6%    Winter: -3.8%

# Yearly Summary

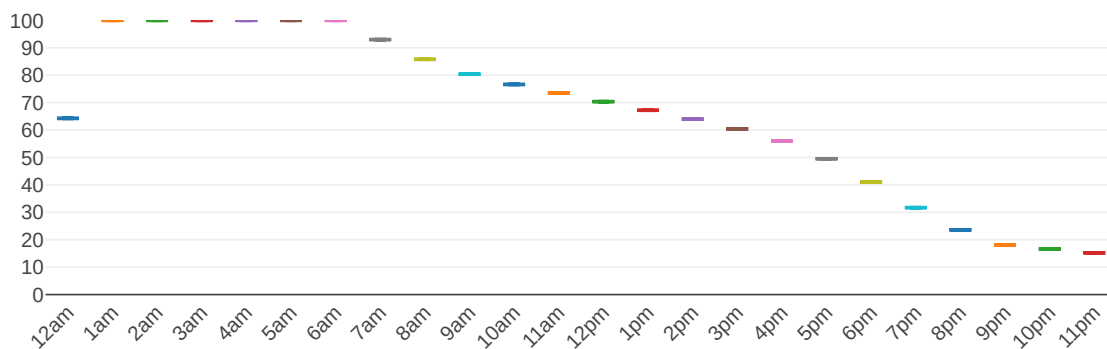
## Monthly Energy Totals

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



## SOC Distribution by Hour

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



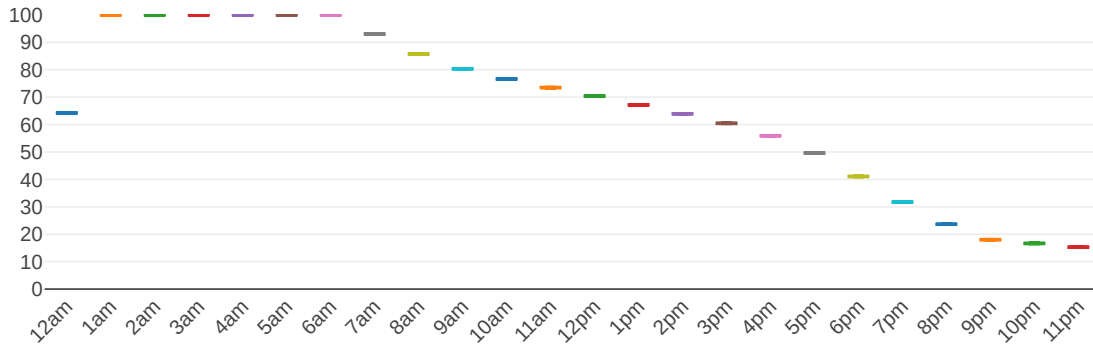
## Monthly Summary

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Solar Generated kWh	0	0	0	0	0	0	0	0	0	0	0	0
Load kWh	297	269	297	288	297	288	297	297	288	297	288	297
Grid Import kWh	309	278	308	298	308	298	308	308	298	308	298	308
Grid Export kWh	0	0	0	0	0	0	0	0	0	0	0	0
Average SOC %	66	66	66	66	66	66	66	66	66	66	66	66

# Summer Monthly Summary

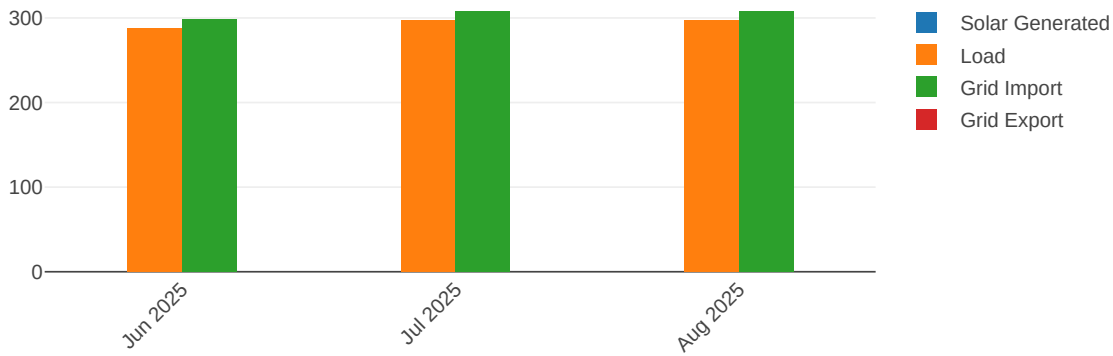
## Summer SOC Distribution by Hour

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



## Summer Energy Totals by Month

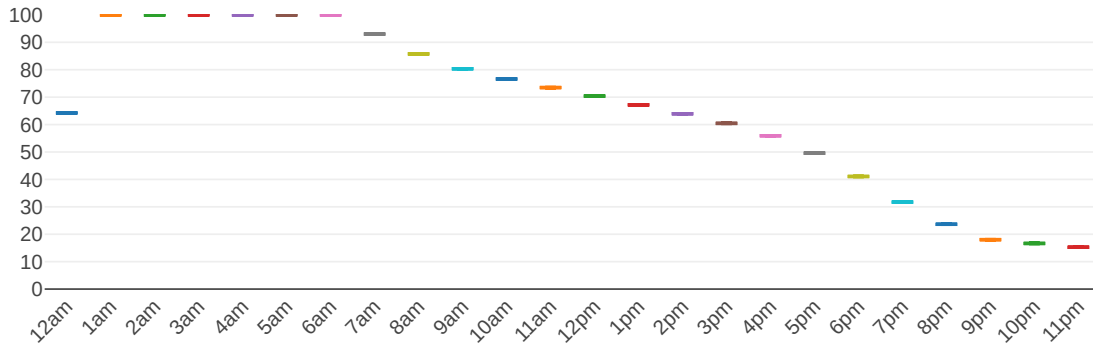
Energy flows for June, July, August: solar, load, grid import, grid export.



# Winter Monthly Summary

## Winter SOC Distribution by Hour

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



## Winter Energy Totals by Month

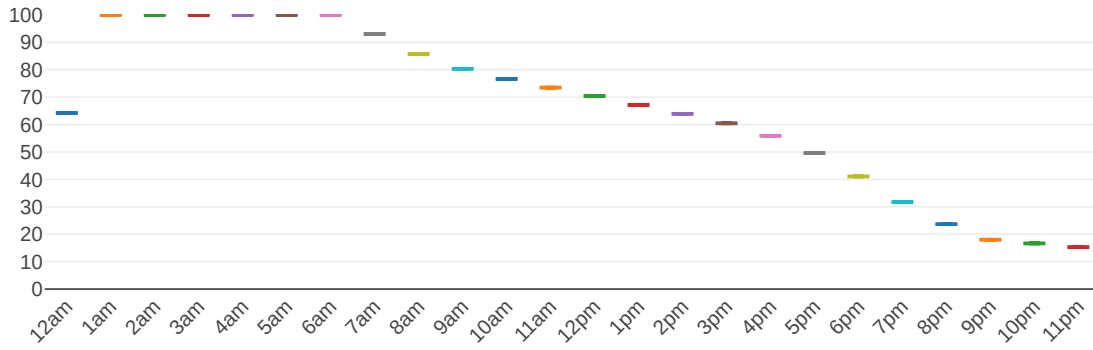
Energy flows for December, January, February: solar, load, grid import, grid export.



# Spring Monthly Summary

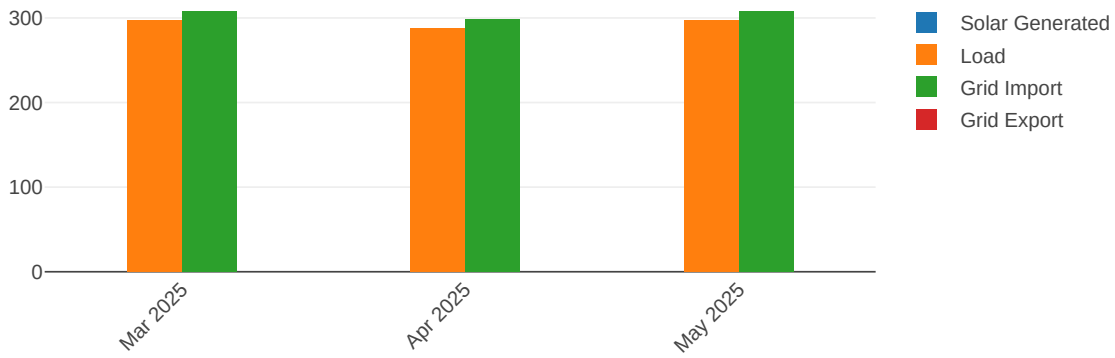
## Spring SOC Distribution by Hour

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



## Spring Energy Totals by Month

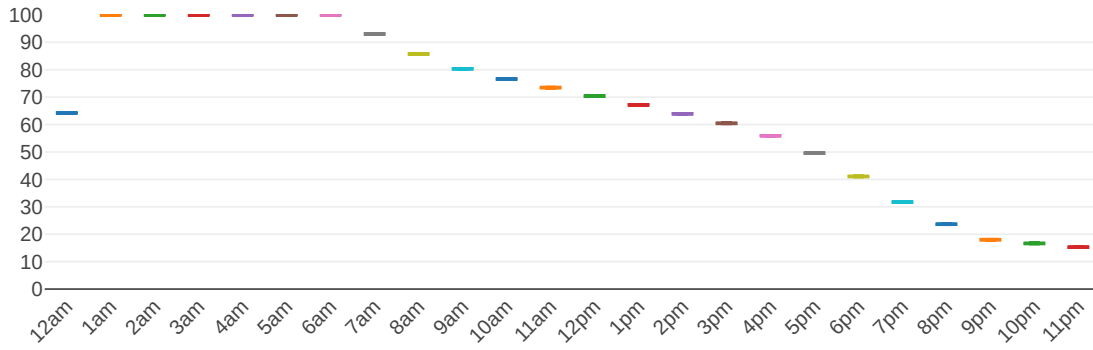
Energy flows for March, April, May: solar, load, grid import, grid export.



# 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.

