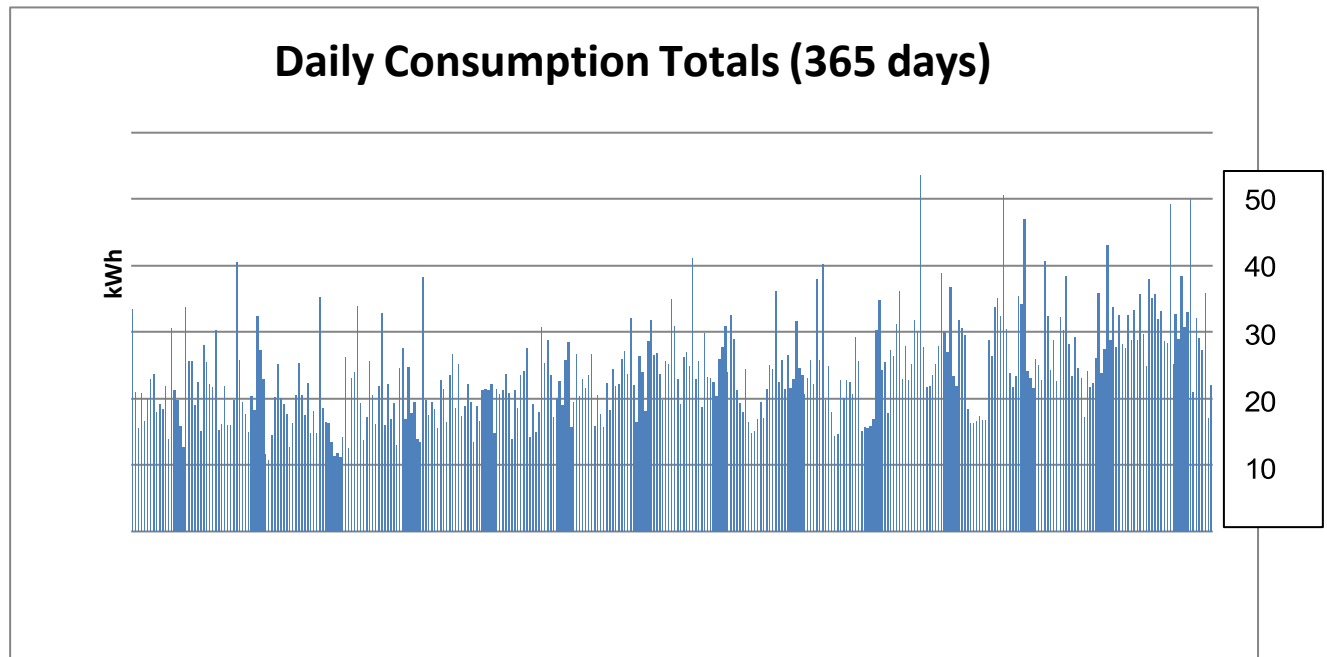


## Headline Figures for CF3 6XS\_RH

<b>Electricity Charges following Electric Battery Installation</b>	
Total kWh (from Annual HHData)	n/a
Current Unit rate (p/kWh)	£0.234
Standing charge (p/day)	£0.480
VAT rate (%)	5.00
Total Annual kWh forecast	7,912
<b>Last Years Total Electricity Costs</b>	<b>£2,125.52</b>
Proposed Electric Battery Size	32.67
Daily Charge kWh	31.04
New Time Of Use Tariff rate kWh	£0.080
New Annual Electricity Costs	£1,126.85
<b>Forecast Savings Year on Year</b>	<b>£998.67</b>
<b>Income from Sale of all Solar Generation</b>	
Proposed Solar Capacity kWh Peak	16.80
Forecast Annual Solar Generation	13,095
Value per kWh per Power Sales Agreement	£0.140
Total Forecast Income from Solar Generation	£1,833.30
<b>Total Turnaround in Electricity Costs/Income</b>	<b>£2,831.97</b>



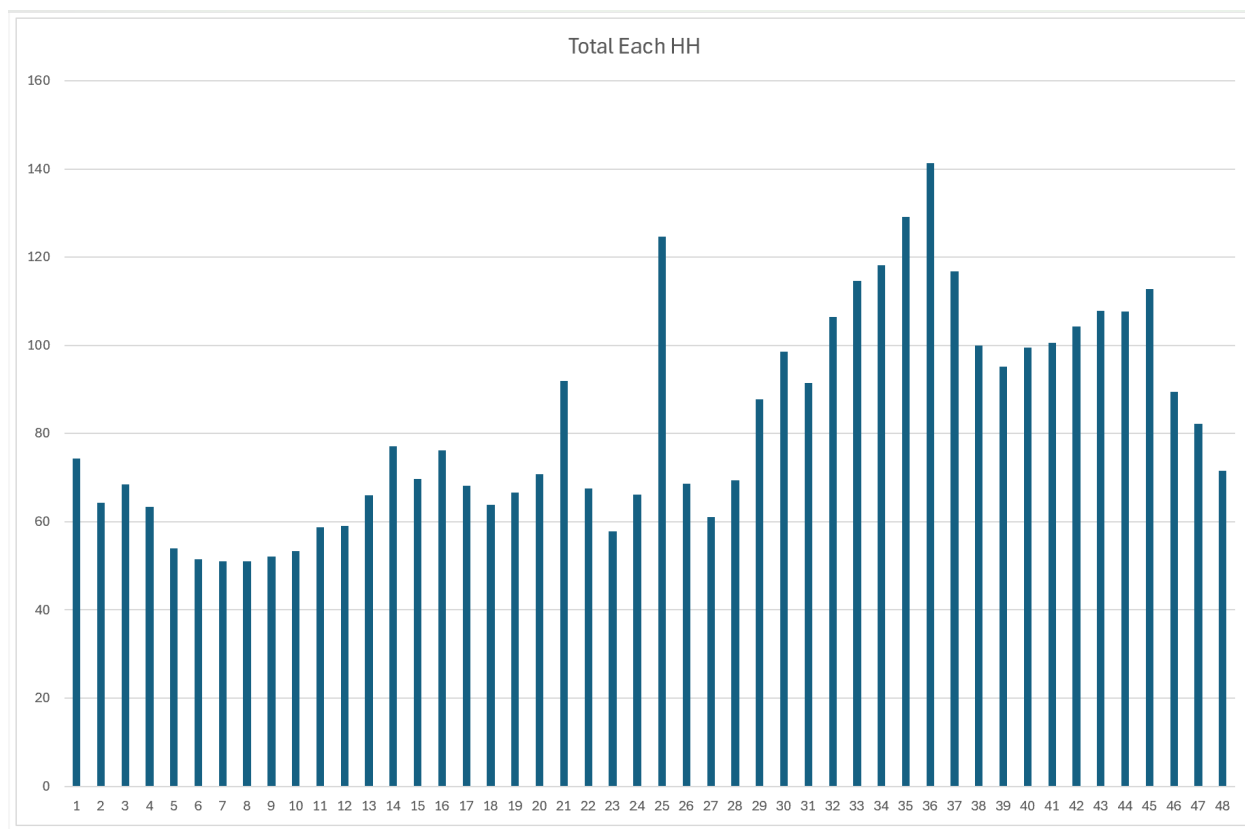
This daily electricity consumption chart informs of the appropriate size of battery to permit full daily load supply from a low cost Time Of Use tariff charged battery.

In this instance we assess that a 32kWh battery will provide optimal daily charging during Off Peak hours of Octopus Agile at a forecast cost of 8p/kWh.

The battery will then discharge during the day supplying the property load without need to resort to expensive Peak Hour grid consumption.

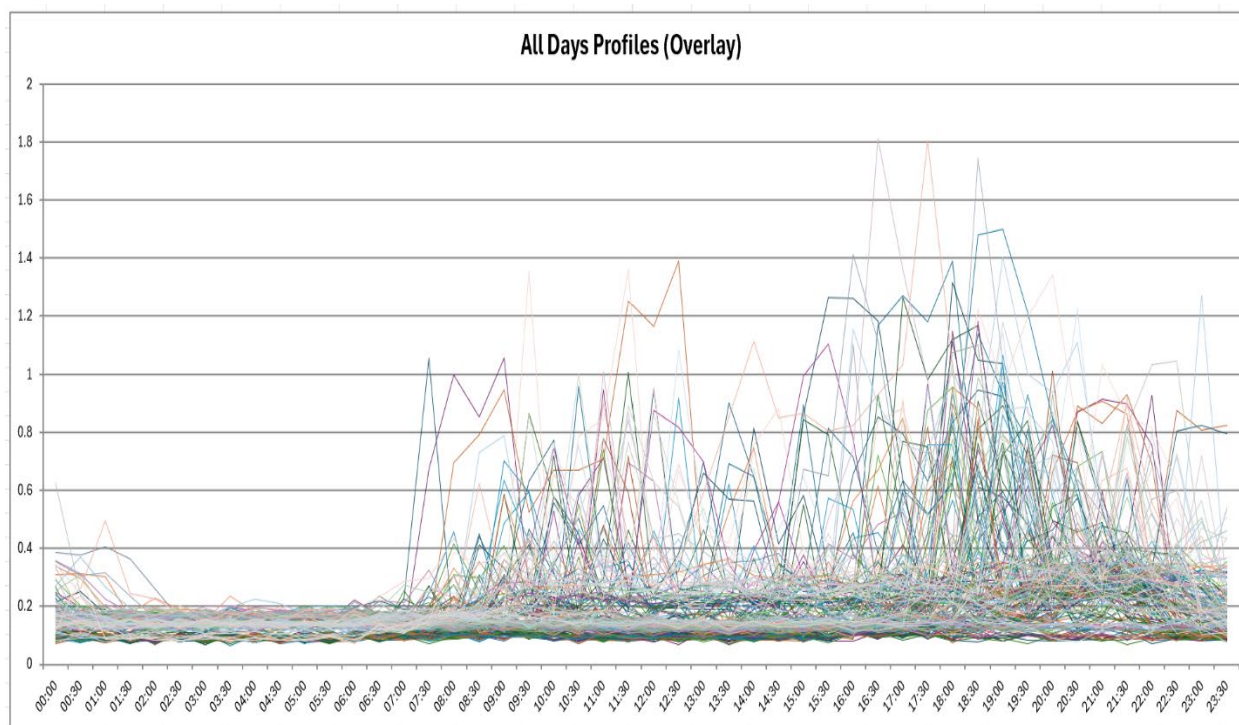
**This HH Data chart shows the aggregated amount of electricity consumed during 365 days for each Half Hour Period in the day.**

**This data helps inform on the type of Time Of Use tariff that best assists low cost supply to cover as much as possible of the daily consumption.**



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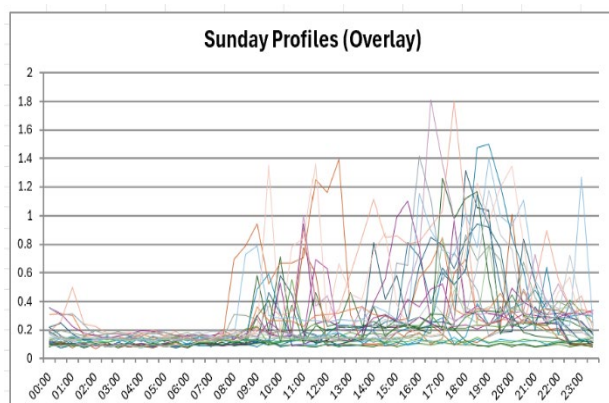
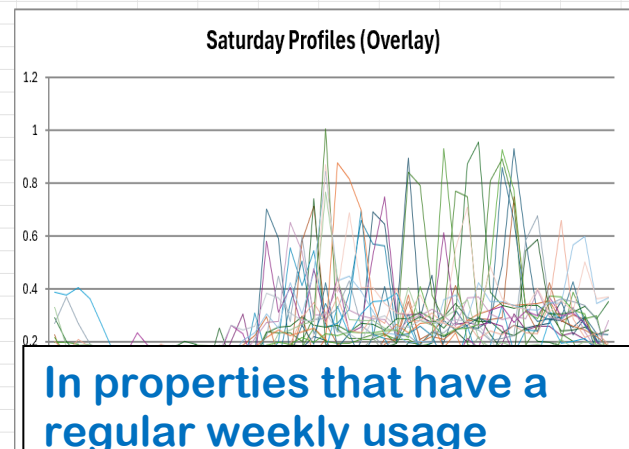
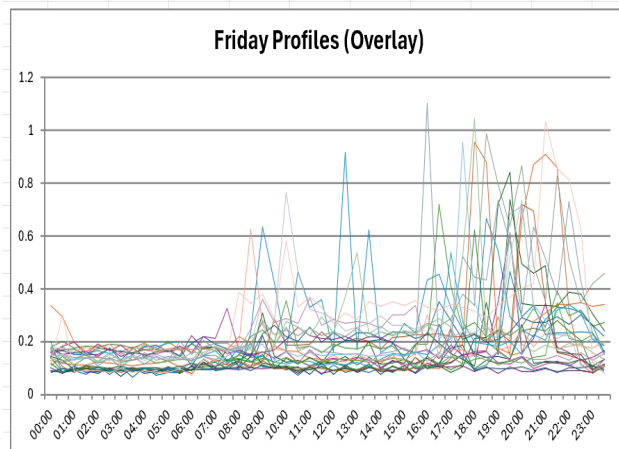
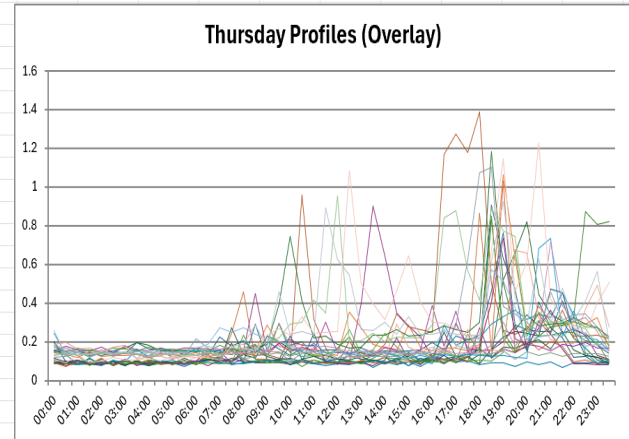
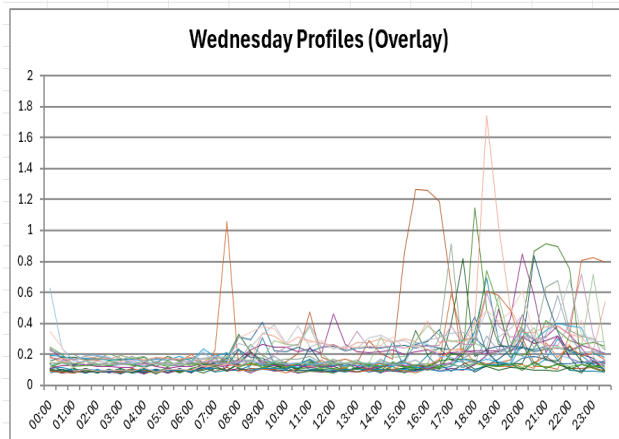
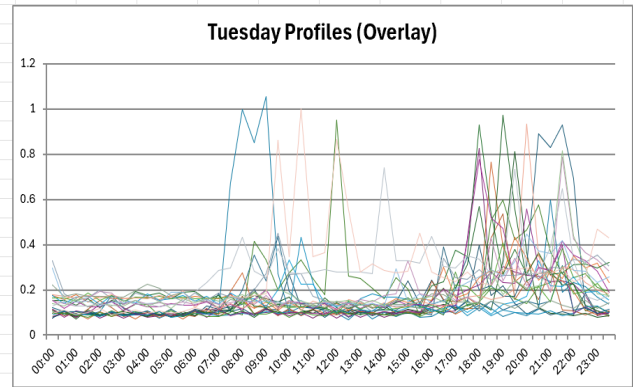
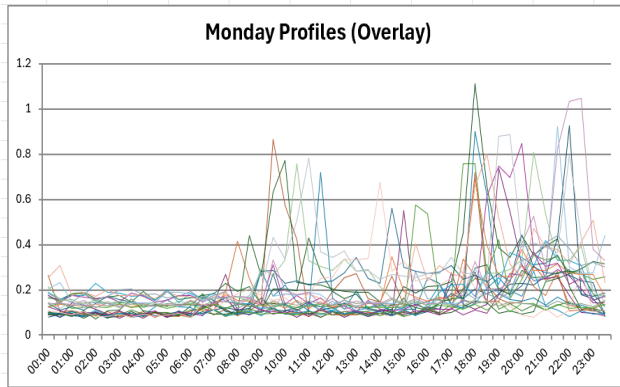


**The graph above shows daily consumption in Half Hourly Data intervals at the property over the course of one year.**

**This helps inform on what steps can be taken to reduce consumption during periods when the property is 'at slumber'.**

**These will comprise of Smart Plug Sockets & Smart Power Strips.**

## The below graphs show consumption by weekday



**In properties that have a regular weekly usage pattern these graphs help inform on prioritising battery charging.**

The recommendation is for 24 solar panels with a total kWh peak generation of 18.5kWh.

Using the Open Solar forecast system which draws on the past 25 years solar numbers at CF3 6XS and forecast annual generation of 13,095 kWh which, providing the electric battery is properly sized, can all be exported at a likely rate of 14p/kWh.

The screenshot displays the Open Solar forecast system interface. On the left, a sidebar contains icons for system configuration, including a grid, inverters, optimisers, and battery storage. The main panel is titled "28 Panels System" and shows system statistics: 16.80 kW, 374% efficiency, 0.0 kWh exported, and 13095 kWh forecasted. A yellow button labeled "+ PANELS" is visible. The panel configuration section shows four rows of "JAM72D-40-600-LB..." panels, each labeled "JA Solar 600W". Below this, there are options to "Add optimisers to all panels or some panels" and a toggle for "Existing system / Retrofit". On the right, an aerial view of a building with solar panels is shown.

