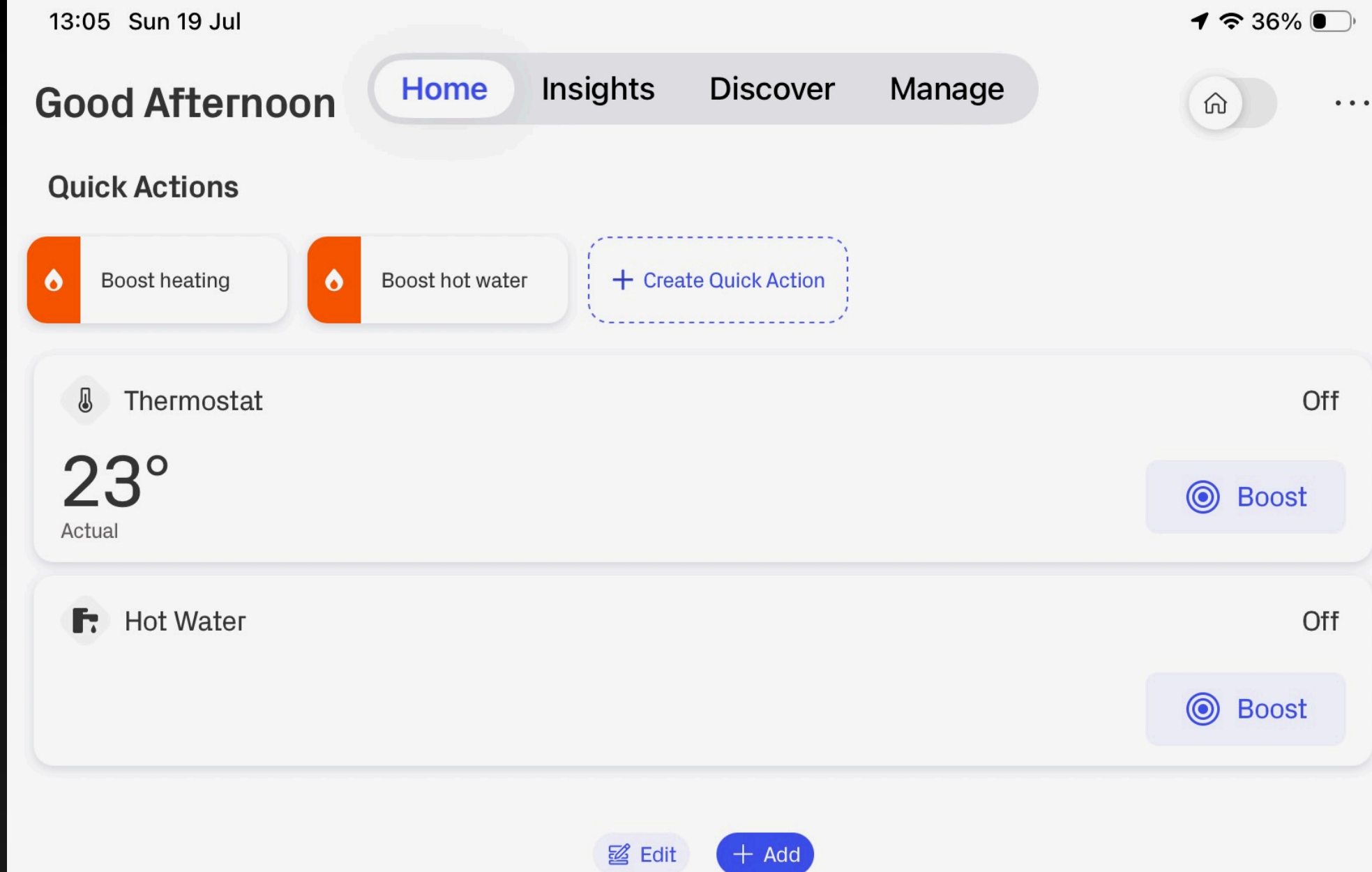


Digital Home (an update)

Changes to the Solar + Battery + Tariff world

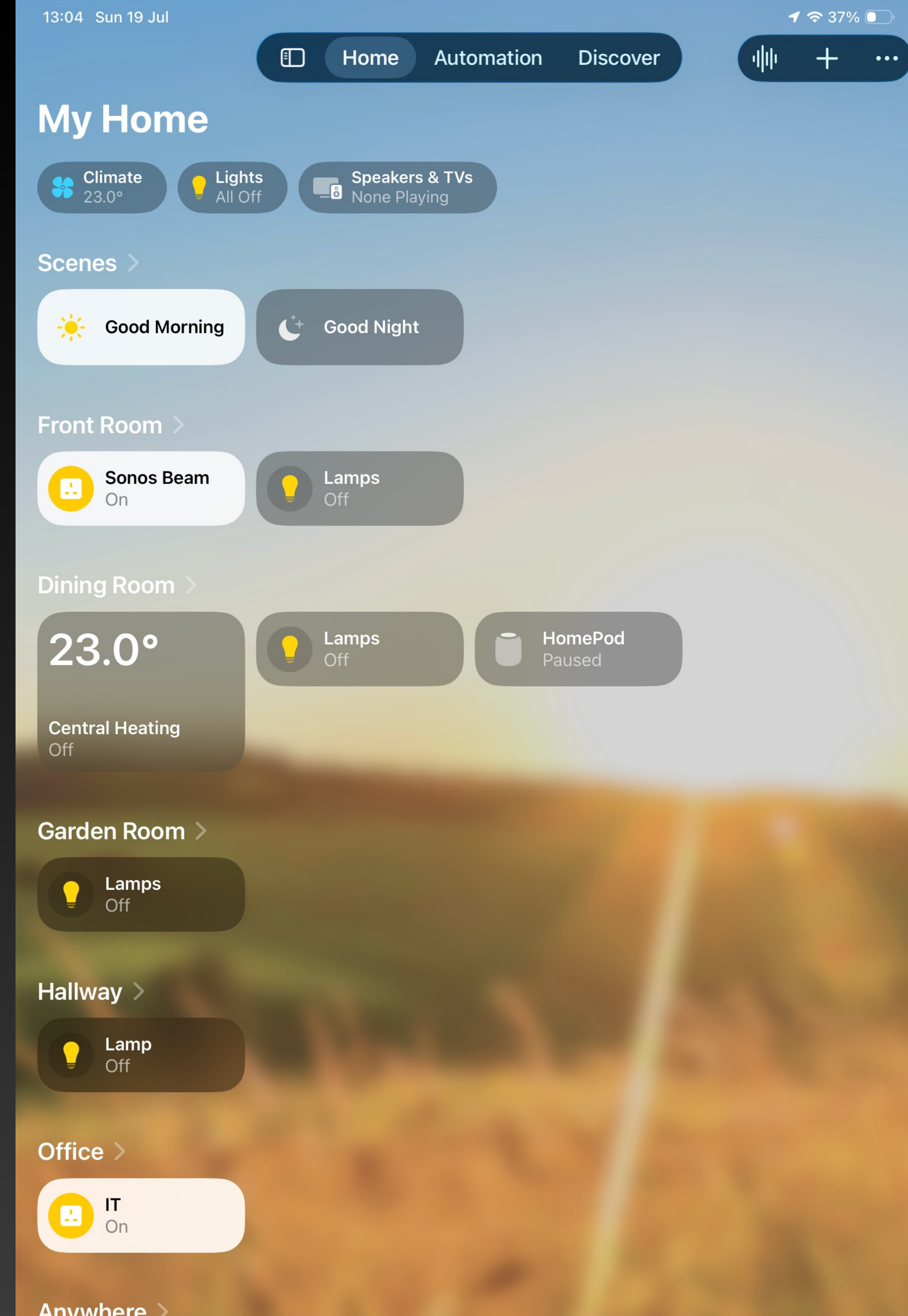
Starting point

Not exceptionally we use
Hive to control our heating
and hot water - we'll stay on
gas as long as the boiler's
working!



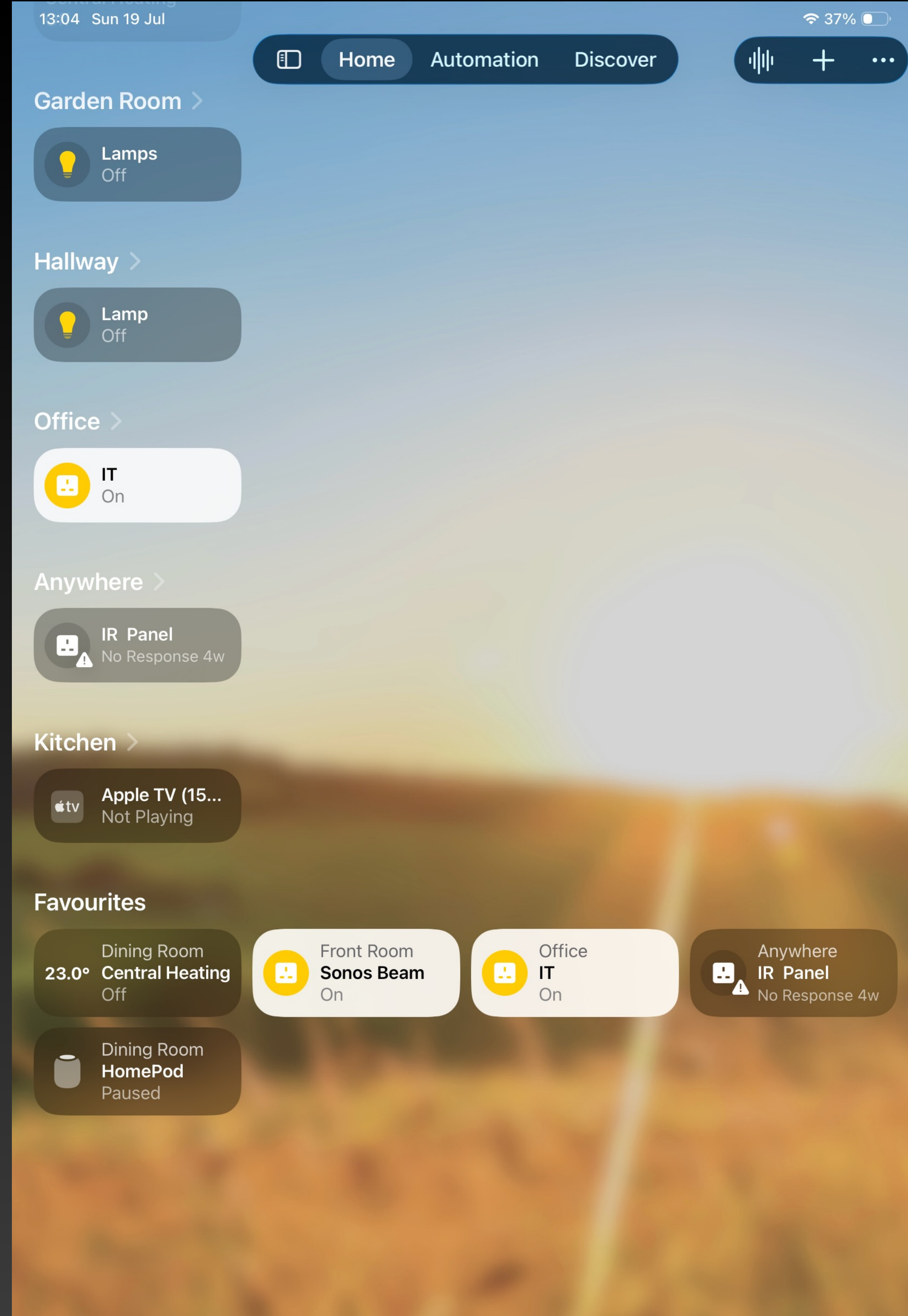
Apple Home - 1

The Home app using Siri, and Smart Plugs (eve and Meross) allows us to control some devices (erratically). We have to use SmartLife to control the IR heaters.



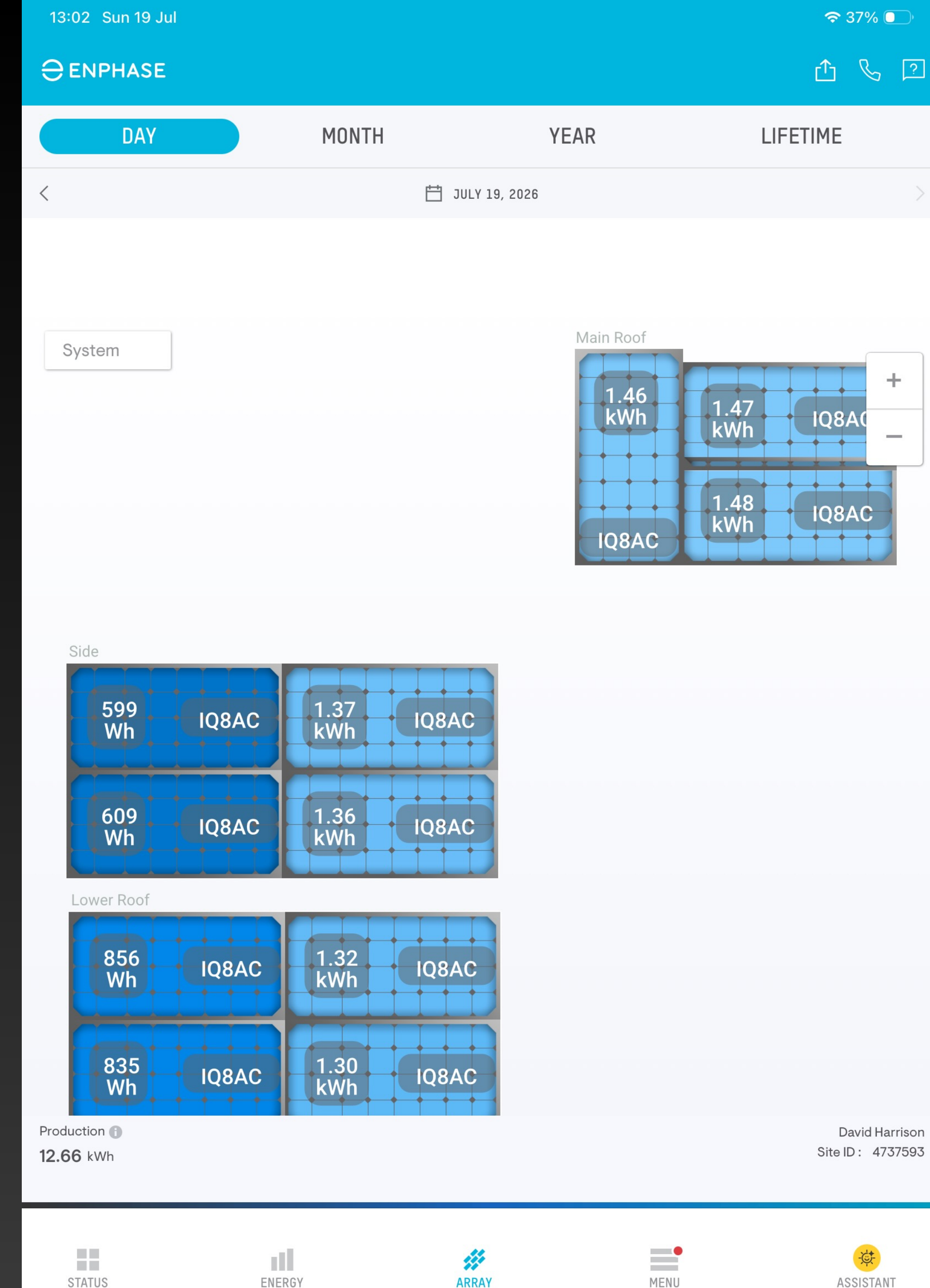
Apple Home - 2

Again, as a home almost totally Apple, with a touch of Samsung, it's easiest for us to use Apple Home



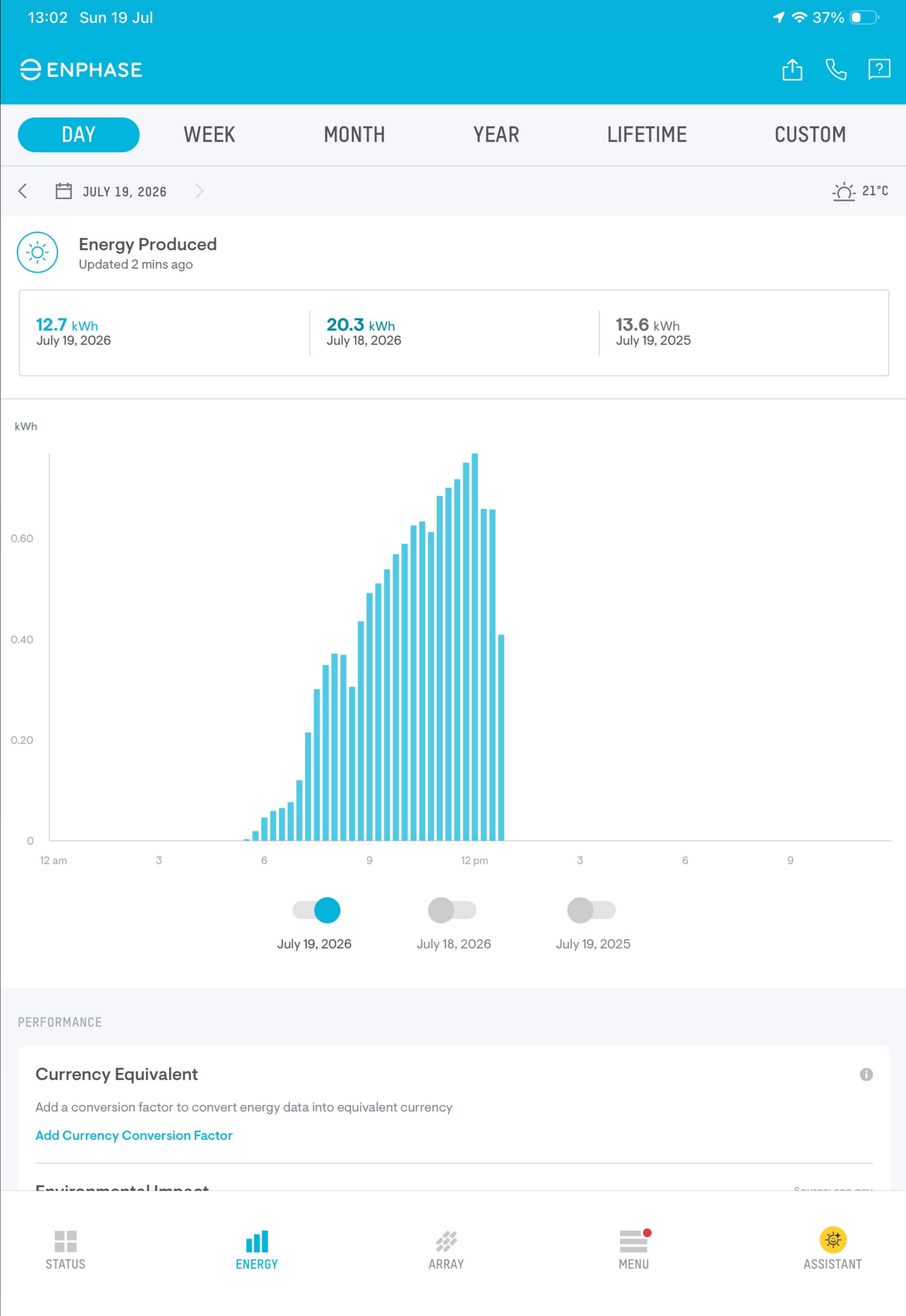
The power supply

We have 11 Enphase solar panels with micro-inverters connected to a Givenergy All-in-One Battery/Inverter system. The panels are viewable using Enlighten app



Enlighten - 1

Distribution of Solar Gain for morning of July 9th.



Enlighten - 2

Stats from our solar panels
for July 19th morning

13:02 Sun 19 Jul

37%

ENPHASE

Normal

19 Jul 2026 (Updated 1 min ago)

21°C

0.1kW

Latest Power

3.1kW

Peak Power

Production

Today

12 am - 01 pm

12.7 kWh

2% more than this time yesterday

PERFORMANCE

Environmental Impact

Source: epa.gov

12.7 kWh

Equivalent

C02 REDUCTION

9.2 kg

Site ID: 4737593

STATUS

ENERGY

ARRAY

MENU

ASSISTANT

wonder watt

The game changer. Monthly subscription allows scheduling of import and export cycles for 30 min slots from / to Grid



Power your tomorrow, today!



Smart and predictive charging
based on solar forecast

Testimonials

"I've been using Wonder Watt for around a week or so now, and it seems to be doing exactly as it says on the tin." — mrtnbcky

"Great web app. Been in touch with the developer and now it works with AC coupled inverters too!" — Joe

"Automatically reverting to Eco-mode after grid export is good news for the GivEnergy community, and a real benefit of Wonder Watt." - Martyn

Read [more testimonials](#) on our dedicated page.

If you have a [Growatt](#), [GivEnergy](#) or a [Solax](#) inverter with battery storage, you can access our Wonder Watt web app dashboard here: <https://app.wonderwatt.com> - note that you will need a Google account to login.

WW - 1

Configured for our tariff - Agile Octopus.
You can select up to 12 charging (or discharging) slots a day, and disable them as you wish. For charging the app checks whether your battery charge level has fallen below a certain level (SOC less) and allows you to stipulate the level should rise to.

Each of the charge schedules can be changed by you on a day by day basis - or you can allow WW to dynamically select charging slots (we don't).
We don't use discharge slots.

Agile Octopus Integration

Important: Only use this integration if you are on the Agile Octopus tariff (UK only), with half-hourly pricing.

Configured Octopus Agile Charge windows

You can find your currently configured Octopus Agile charge windows below. You are currently using 6 of 12 charge windows.

Click on an Octopus Agile window to edit it, or click the 'Delete' button to delete it. Any regular Charge Schedules you have defined in the Schedules section will be deactivated.

Name	Window	Active	Slots	SOC less	SOC target	Hold charge	Actions
Summer overnight	00:00 - 06:30	☒	6	40 %	80 %	No	Delete
Breakfast	06:30 - 09:00	☒	2	60 %	80 %	No	Delete
Morning	09:00 - 12:00	☒	3	80 %	80 %	No	Delete
Summer Afternoon	12:00 - 16:00	☒	3	80 %	100 %	No	Delete
Evening	20:00 - 00:00	☒	3	50 %	60 %	No	Delete
Peak	16:00 - 20:00	☐	1	50 %	60 %	No	Delete

Add charge window

You can view your scheduled Agile Octopus slots for today and tomorrow (when available) here.

Agile Tariff Colour Legend

Negative	Under 5p	Under 10p	Over 10p	Over 15p	Over 20p	Over 25p	Over 30p	Over 40p
----------	----------	-----------	----------	----------	----------	----------	----------	----------

WW - 2

The slots selected for charging showing the price per kWh we have agreed to pay. You can also stipulate a max price that you would accept for charging from the grid.

If you leave the max pay blank, it will charge for the slot regardless

Home

Settings

Schedules

Octopus

Agile

Intelligent

Activity Log

Advanced

Subscription

Support

Logout

Dark Mode

v0.5.1339

pessimistic-low

Agile Tariff Colour Legend

Negative	Under 5p	Under 10p	Over 10p	Over 15p	Over 20p	Over 25p	Over 30p	Over 40p

Agile Octopus Slots - Today 2026-07-19

☒ Charge View - Select slots for charging

☐ Export View - Select slots for discharge/export

You can find the Agile Octopus slots and prices for today below. The slots highlighted in blue are pre-selected automatically for charging based on your settings. **If the rates for tomorrow have just been published, the pre-selected slots might take a few minutes to show up.**

Click on a slot to toggle the selection if you wish to make changes. Orange outlines show selected discharge slots from the other view.

00:00 22.13p	00:30 21.21p	01:00 20.26p	01:30 19.71p	02:00 20.08p	02:30 20.06p
03:00 19.20p	03:30 18.21p	04:00 17.28p	04:30 17.14p	05:00 15.44p	05:30 14.05p
06:00 12.22p	06:30 12.13p	07:00 9.89p	07:30 12.39p	08:00 11.37p	08:30 11.32p
09:00 10.54p	09:30 10.93p	10:00 10.47p	10:30 10.75p	11:00 9.43p	11:30 9.04p
12:00 10.08p	12:30 10.86p	13:00 10.71p	13:30 9.45p	14:00 10.31p	14:30 9.94p
15:00 10.41p	15:30 11.07p	16:00 25.38p	16:30 27.57p	17:00 33.93p	17:30 33.44p
18:00 37.51p	18:30 37.97p	19:00 27.92p	19:30 28.18p	20:00 28.50p	20:30 28.27p
21:00 28.37p	21:30 28.15p	22:00 28.92p	22:30 27.68p		

Along came Axle

GivEnergy the Battery company went into administration a couple of months ago; but the software arm was able to keep going, but had to charge a monthly subscription of £4.99 to keep it afloat.

Axle a VPP company offered to pay our GE Software subscription.

Certainly worth looking into!!

axle

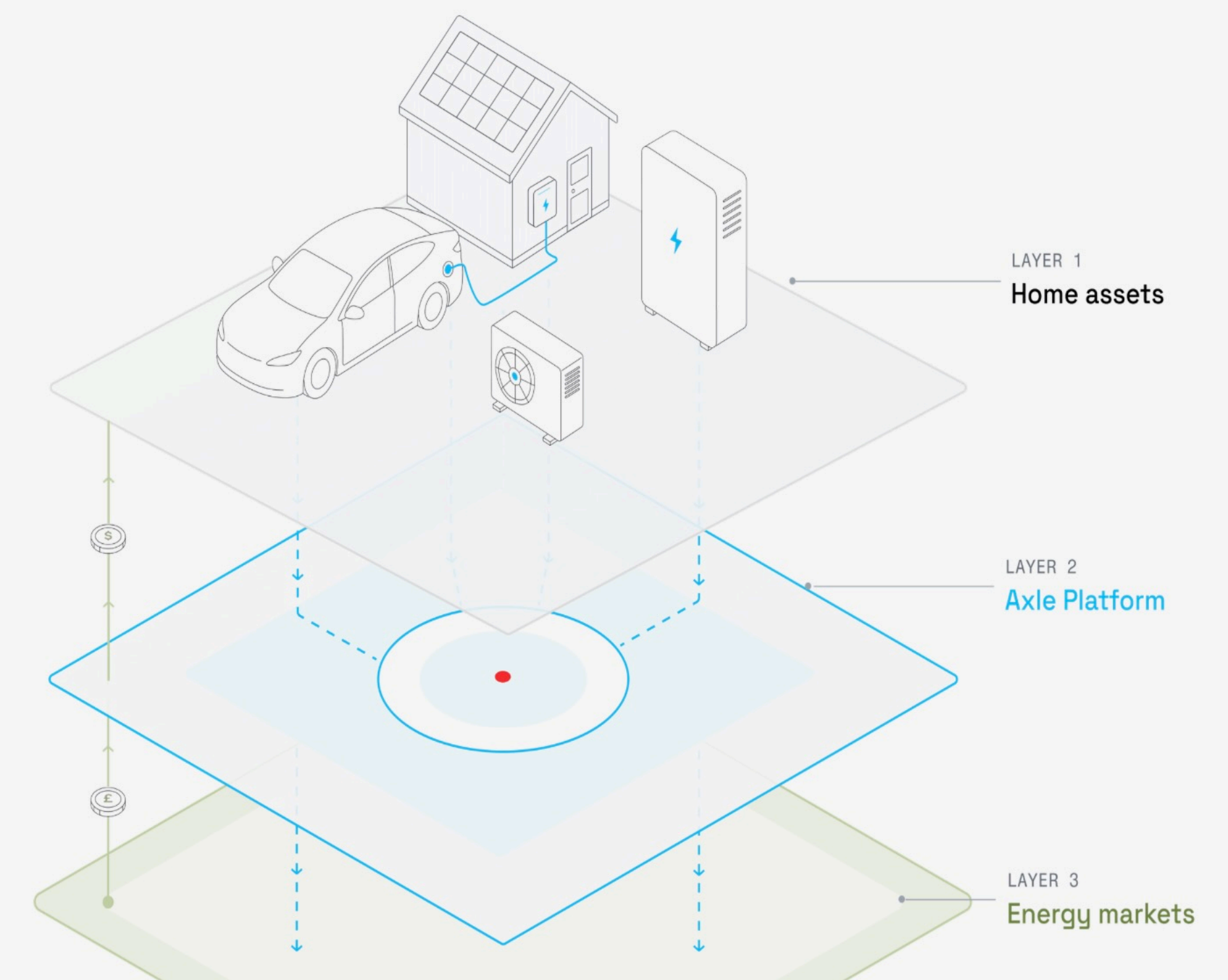
FLEXIBILITY, CONNECTED

Every home a power plant

Connect EVs, batteries and heat pumps to energy markets through a single, unified API. Turn distributed assets into a coordinated virtual power plant.

Book a demo

API docs



Axle - 1

Not just batteries but other solutions as well. Their objective to sell excess power to the Grid and minimise costs for other technologies.

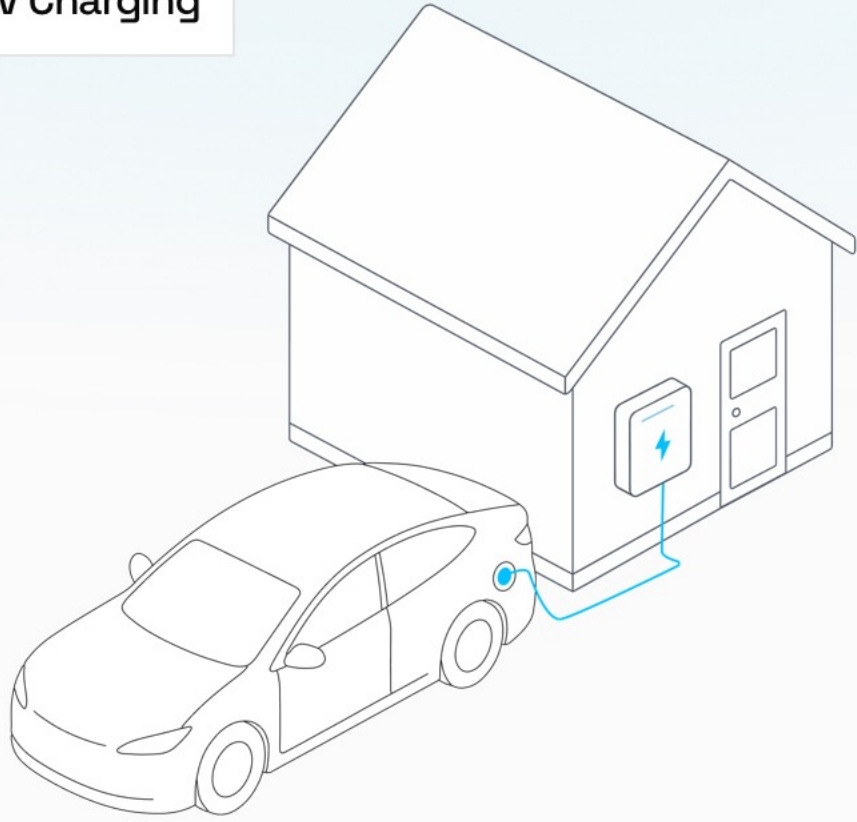
axle

DECENTRALIZED BY DEFAULT

Built for home energy assets

Move from Home Energy Management to Home Energy Monetisation

EV Charging

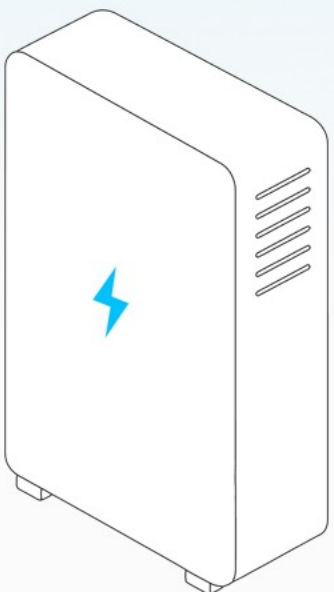


Smart charging solutions that earn cash for users whilst protecting the grid

[For Carmakers →](#) [For EVC OEMs →](#)

[For Utilities →](#)

Batteries

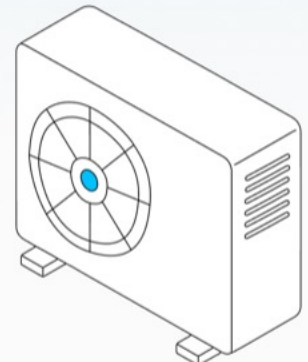


Offer the Axle VPP to your users to boost sales and earn referrals

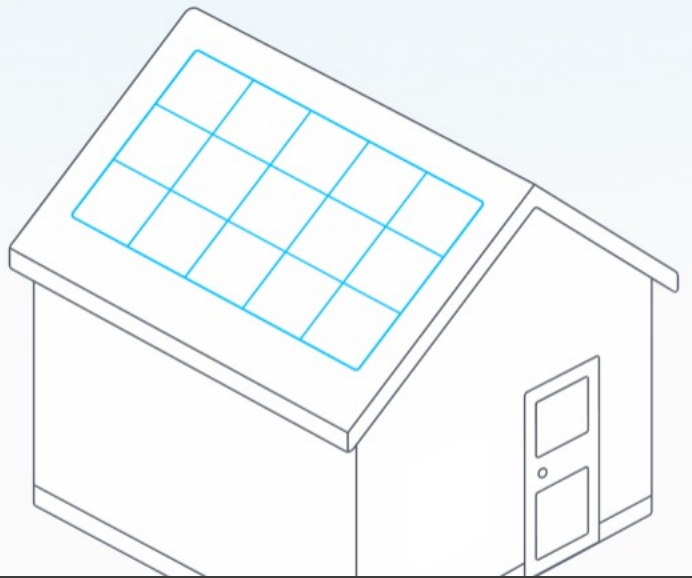
[For OEMs →](#) [For Homeowners →](#)

[For Utilities →](#)

Heating & cooling



Solar



Axle - 2

We're just interested in minimising our costs, not energy generation, but could it help out and pay our GE Software subscription as well?

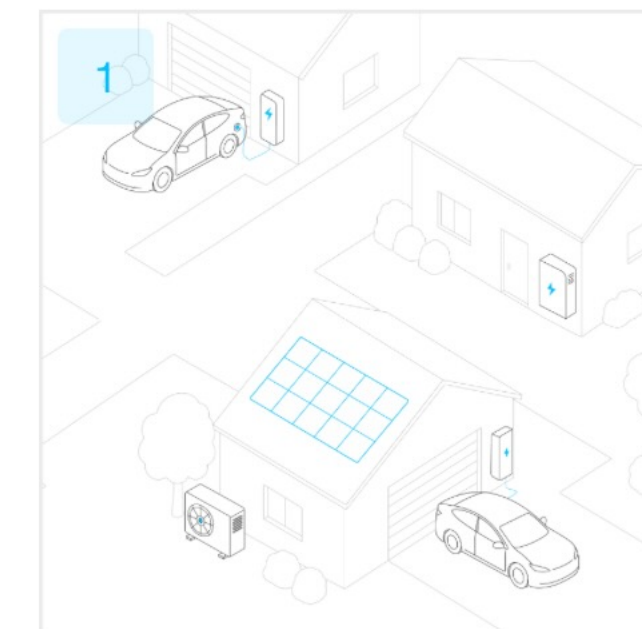
axle



HOW IT WORKS

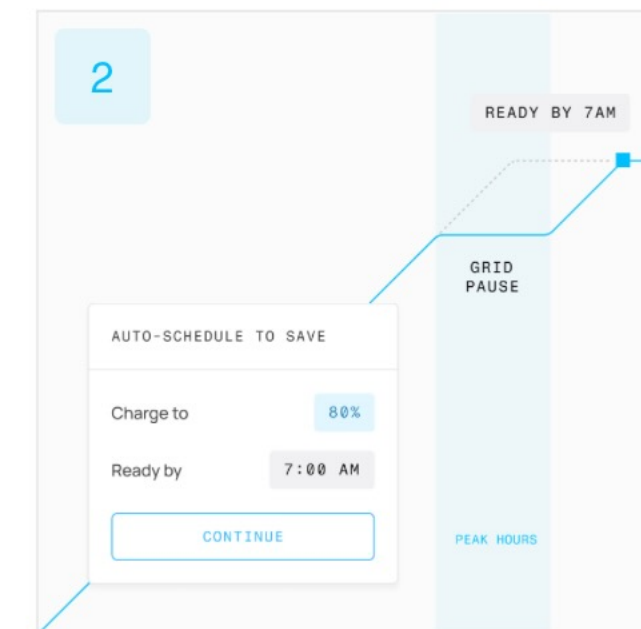
Monetize your flexible demand

Make users happy. Provide flexibility to the grid. Get paid.



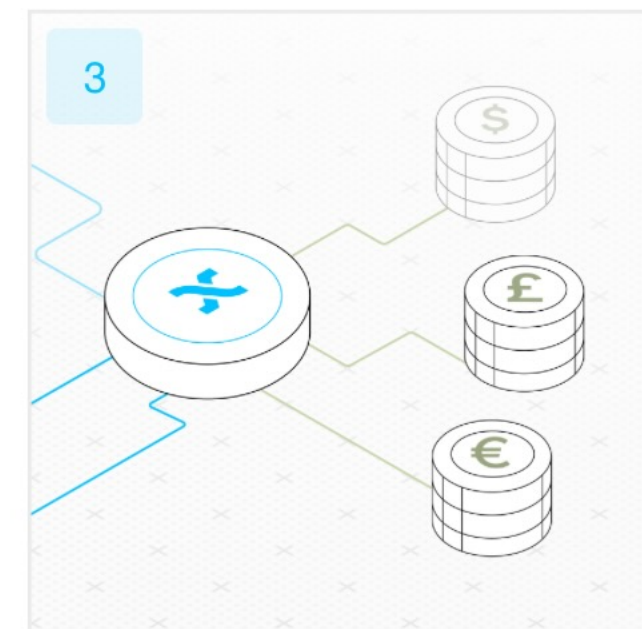
Flexible demand can shift to match grid conditions

Shape the timing of energy use, without affecting the outcome - warm homes, cold beers and fully charged cars.



Optimise your assets for flexibility value

Met your users' needs whilst maximising flexibility you can sell to the grid.



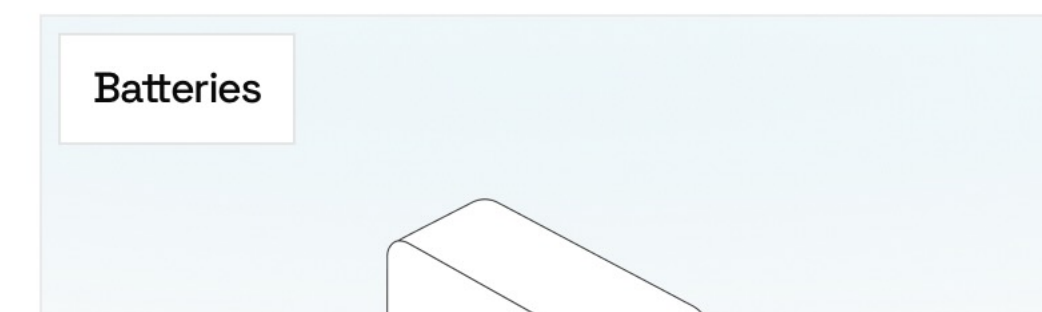
Earn revenue from electricity markets

Get paid by the grid and share the revenue with your users via Axle's payment rails.

DECENTRALIZED BY DEFAULT

Built for home energy assets

Move from Home Energy Management to Home Energy Monetisation



Axle - 3

Impressive figures from a start-up, and they've just raised significant capital to expand their services.

axle

Cut costs.
Cut carbon.
Create revenue.

ASSETS CONNECTED

300k

Live devices on the Axle platform

FLEXIBILITY POOL

2GW

Total shiftable load capacity

API UPTIME

>99.9%

Enterprise-grade reliability

"Axle have just been an absolute delight to work with. At the start of Pod's Flex journey in 2023, many people told us various things we wanted to do were impossible, but Axle always found a way, even if it took driving regulatory change. The speed and quality of their technical delivery has been exemplary, with new features often added in days and a highly reliable service."



Pilgrim Beart

VP ENERGY SERVICES
@ POD

Axle Event - 1

Example email advising an Event is coming the next day -
you can decline to accept the Event.

They will pay £1 per kWh, and on top of that we will get
the Octopus Export rate - currently 12p per kWh

That's an incredible difference, and it means that as long
as your battery has sufficient charge you're getting quite
a return

As max charge on the Agile Octopus Tariff is 0.99p; you
can't lose out

You can plan to charge to at least 60% battery before an
event, regardless of the charge cost for a slot.

I've calculated that each Event will take c.33% of our
battery capacity.



Axle Energy

To: David Ian Harrison >

Reply To: Axle Energy >

Yesterday

Grid Event tomorrow

axle

Hey,

Heads up: we'll be exporting from your battery tomorrow **2026-07-19** from
06:00 to **07:00** to help relieve grid strain in your area.

We'll pay you **£1/kWh** for energy exported to the grid. You don't need to do
anything - we'll handle this automatically and reset your settings
afterwards.

We'll drop you an email letting you know how much you've earned as soon as
we have the data (typically within 72 hours).

[My Account](#)

Thanks for helping out the grid,

Axle Energy

Need help? [Drop us a line](#)

Axel Event - 2

The Events are regional; not all Events occur everywhere

Very clever as generation varies by region as well

Event Summary

Sunday, 19 July 2026

06:00 – 07:00



Areas covered by this event

Close

Axel Event - 4

After the Event, you're
advised it's finished and that
you'll be advised within 72
hours of what you've
discharged to the Grid.



Axle Energy

To: David Ian Harrison >

Reply To: Axle Energy >

07:02

Grid Event Finished

axle

Hey,

The grid event has now ended - thanks for helping out!

We'll drop you an email letting you know how much you've earned as soon as we have the data (typically within 72 hours).

If you're on **Event Only mode**, we will have tried to automatically revert your battery settings back to normal. Please check your settings as we're not always able to reset these remotely.

Thanks for helping out the grid,
Axle Energy

Any questions? [Drop us a line](#)

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Company No. [14633671](#)

Axle Event - 5

We've been invited to participate
in 6 Events to date

On one occasion I misread the
date/time and as a result the
battery level fell to 4%. Part of
the learning process.

here, typically 18-24 hours in advance.

08:56 Mail 96

Past

Tue, 21 Jul 2026		>
06:00 - 07:00		
Mon, 20 Jul 2026	+£3.57	>
20:00 - 21:00		
Sun, 19 Jul 2026	+£3.56	>
06:00 - 07:00		
Fri, 17 Jul 2026	+£3.58	>
06:00 - 07:00		
Tue, 7 Jul 2026	+£3.54	>
22:30 - 23:30		
Wed, 24 Jun 2026	+£3.52	>
19:00 - 20:00		

< vpp.axle.energy > Report an issue

Axle Event - 6

Not a bad return for very little cost. In summer we should be able with proper management using Wonder Watt to make this 100% income from solar.

08:55

Mail

96

AVAILABLE BALANCE

£17.77

Withdraw Earnings

LIFETIME EARNINGS

£17.77

EVENTS JOINED

5

Transactions

Grid event
20 Jul 2026

+£3.57

Grid event
19 Jul 2026

+£3.56

Grid event
17 Jul 2026

+£3.58

Grid event
7 Jul 2026

+£3.54

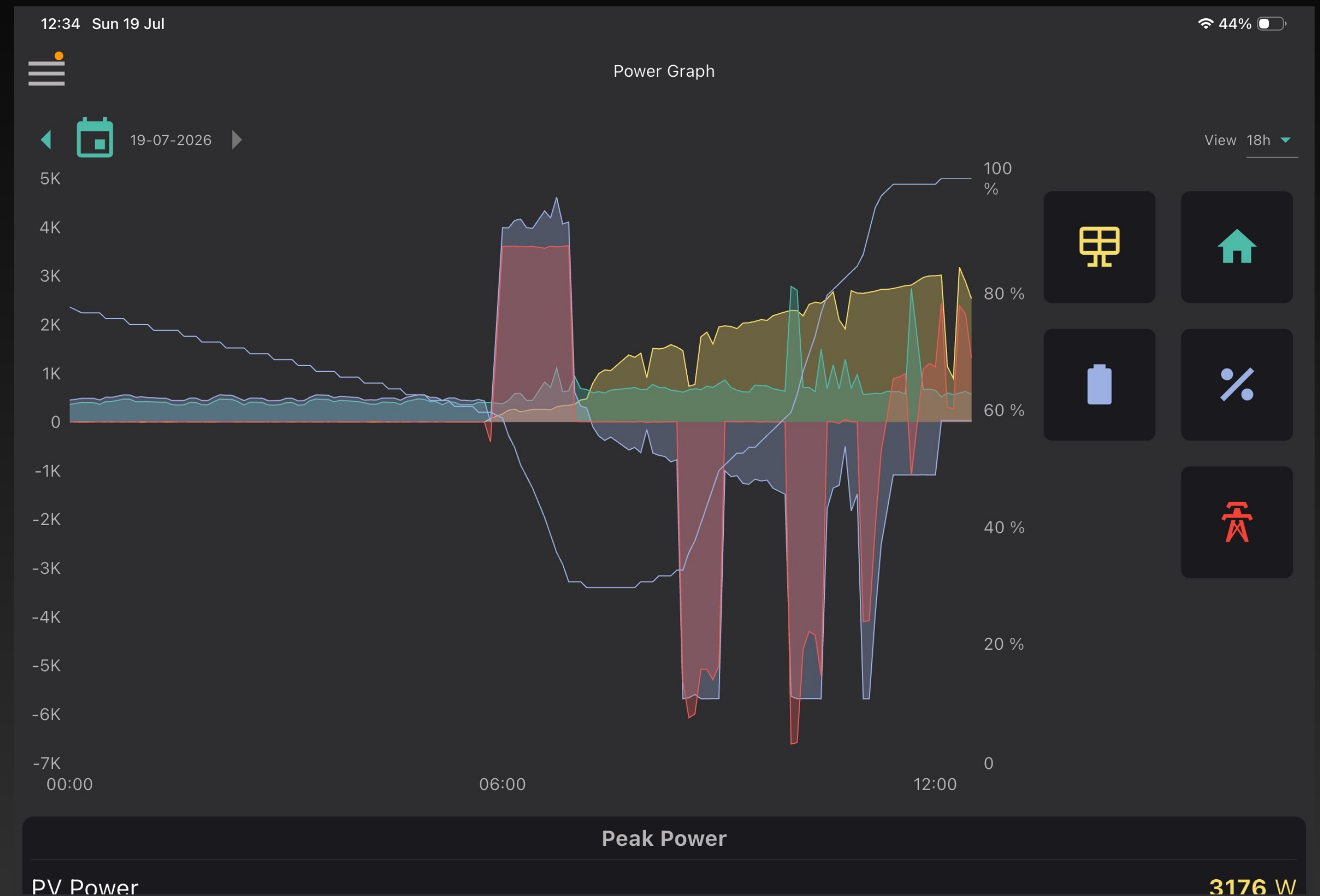
Grid event
24 Jun 2026

+£3.52

vpp.axle.energy

GivEnergy - 1

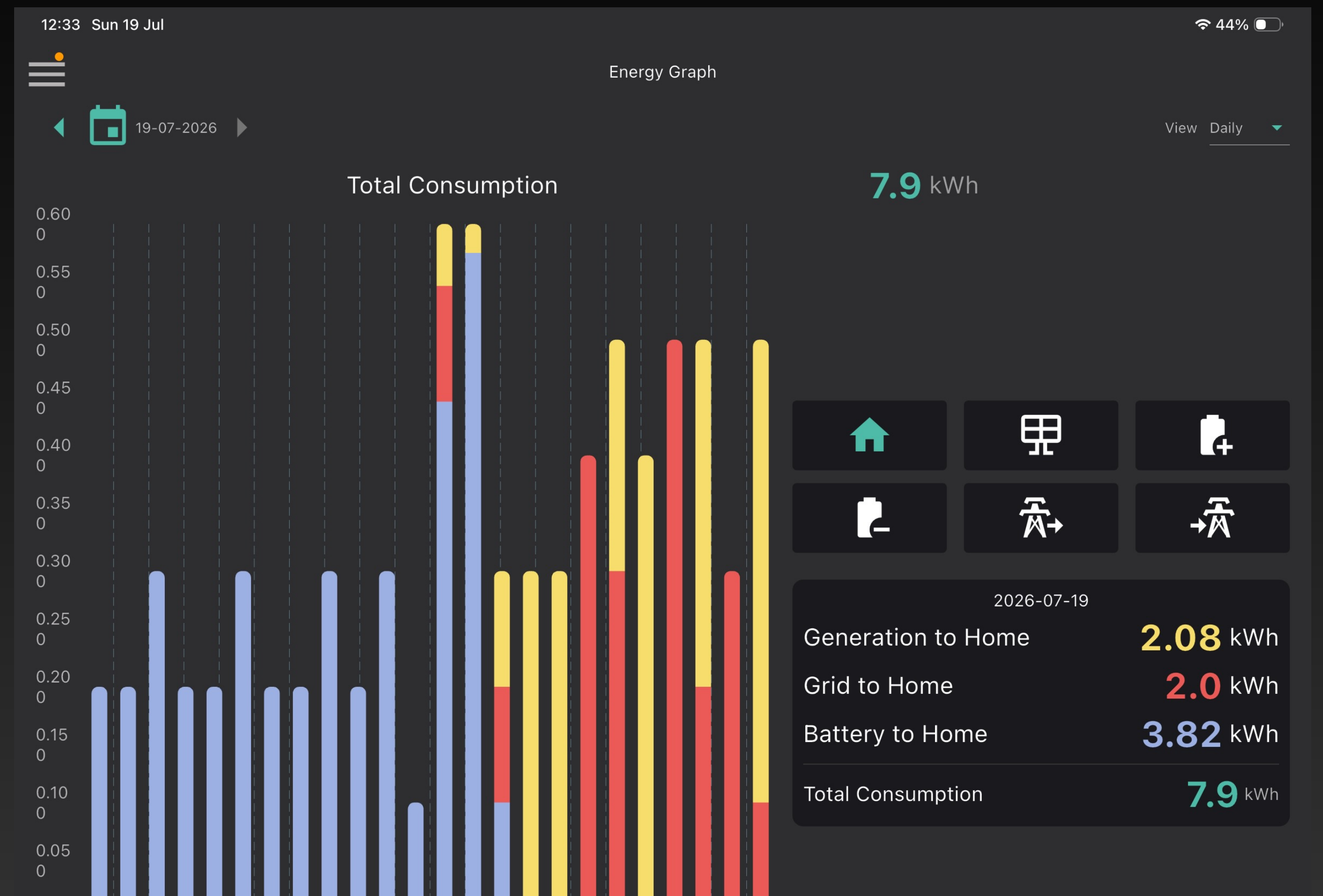
The Power graph - where's
the power coming from,
going to, and how is the
battery responding



GivEnergy - 2

Slightly easier to follow - the energy graph

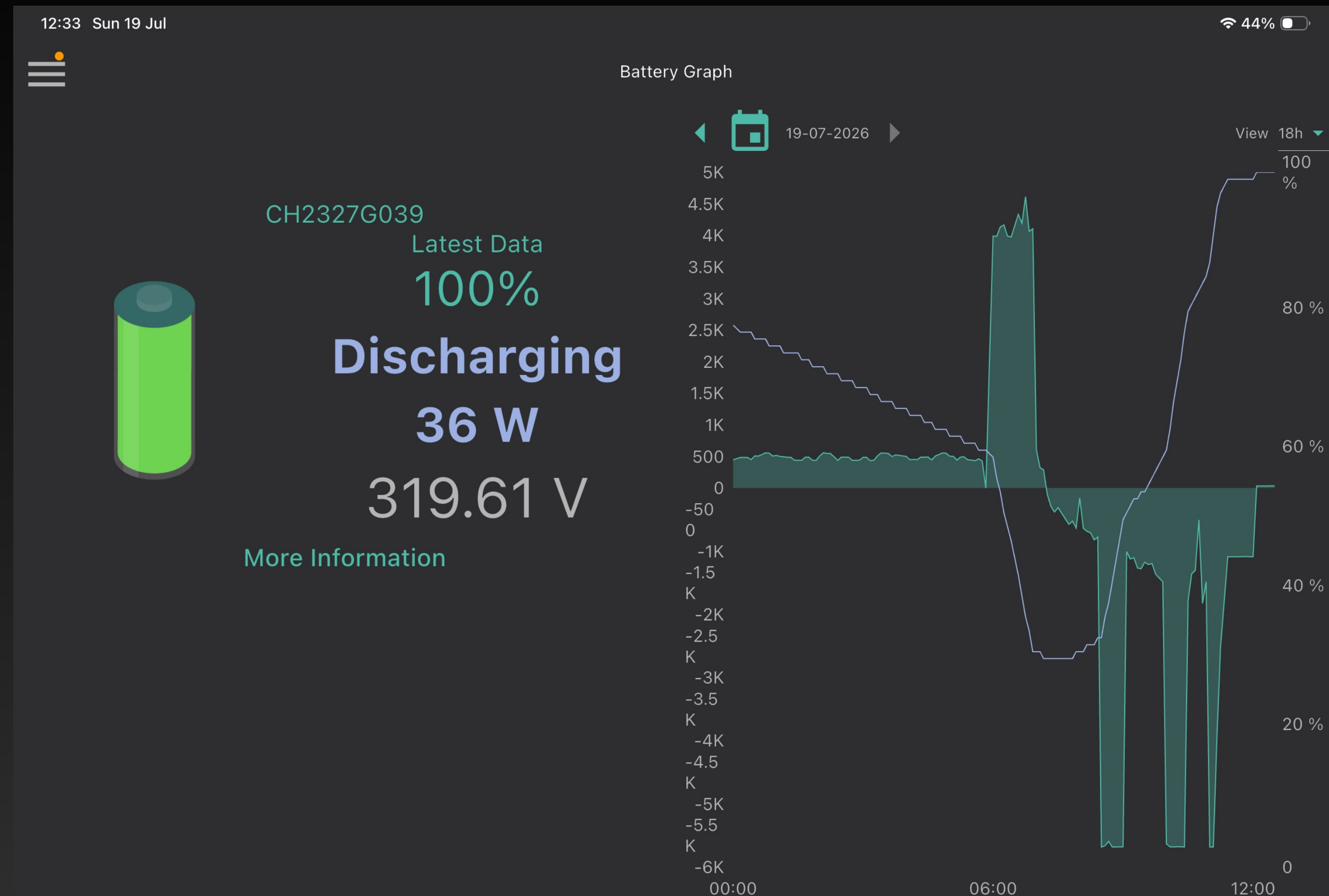
You can isolate the different components to see how each is working.



GivEnergy - 3

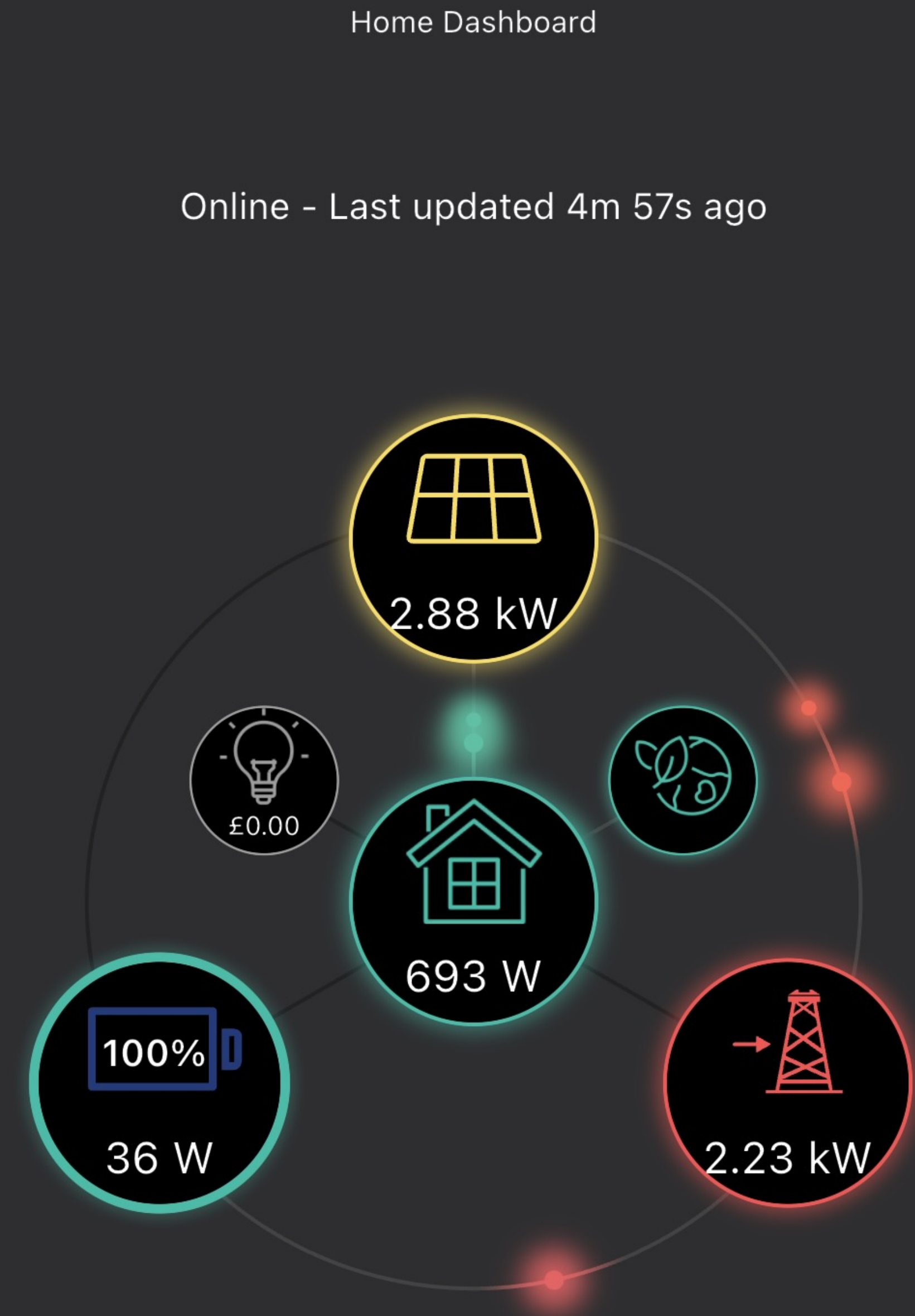
How's the battery performing?

For the Axle Event from 6:00 to 7:00am you can see the peak of discharge from the battery, then the recovery from a mixture of Grid and Solar.



GivEnergy - 4

All brought together in a handy dashboard - here showing the export to the Grid in an Axle Event on July 19th



Octopus smart tariffs (Agile, Intelligent Go, Cosy, Flux & more)

Octopus is best known for its half-hourly smart tariffs — they sit outside the standard tariff feed because prices vary by region *and* time of day. All require a working SMETS smart meter and an Octopus Energy account.

Agile Octopus

Half-hourly electricity prices that follow wholesale costs — can occasionally go **negative** in windy/sunny periods, and capped at ~100p/kWh in extreme peaks. Ideal if you can shift heavy loads (laundry, EV, hot water).

Intelligent Octopus Go

An EV-focused tariff with a guaranteed **~7p/kWh off-peak rate** (11.30pm–5.30am) plus smart EV charging that can extend cheap hours when the grid is clean. Requires a compatible EV or charger.

Cosy Octopus

Designed for **heat pumps**: three cheap windows per day (typically 4–7am, 1–4pm and overnight), peak rate weekdays 4–7pm. Best if your heat pump can pre-heat the home.

Octopus Flux

For homes with **solar + battery**: three-tier import and export rates that pay more to export at peak (4–7pm) and charge less to import overnight. Maximises battery value.

Octopus Go

Original EV tariff with a fixed **4-hour off-peak window** (typically 12.30–4.30am) at a discounted rate. Simpler than Intelligent Go but less optimised — check both before choosing.

Outgoing Octopus & Agile

Smart Export Guarantee (SEG) tariffs for solar/battery owners. **Outgoing Fixed** pays a flat 15p/kWh, **Outgoing Agile** tracks half-hourly wholesale prices.

Saving Sessions: All Octopus smart-meter customers can also opt in to Saving Sessions during winter — one-off events (usually 1–2 hours) where you're paid OctoPoints to reduce usage. Stack with any tariff.

Table 1

	Electricity In		Electricity Out		Axle			Gas		Total	Cumulative	Savings from	Cumulative	Monthly
	kWh	Cost	kWh	Income	kWh	Income	Net Cost	kWh	Cost	Cost	Cost	previous year	Savings	Payment
2024	5387.1	£1261.11	1261.5	£249.63			£1011.48	12974.2	£956.73	£1968.21				
2025														
January	939.0	£235.00	27.7	£4.16			£230.84	3284.8	£208.16	£439.00	£439.00			£36.58
February	732.8	£179.90	33.0	£4.95			£174.95	2682.1	£170.78	£345.73	£784.73			£65.39
March	449.3	£99.18	117.9	£17.68			£81.50	1829.5	£119.72	£201.22	£985.95			£82.16
April	208.4	£51.48	262.1	£39.31			£12.17	884.0	£62.47	£74.64	£1060.59			£88.38
May	125.6	£32.92	261.6	£39.25			-£6.33	504.7	£39.50	£33.17	£1093.76			£91.15
June	88.0	£27.43	207.3	£31.10			-£3.67	108.9	£9.87	£6.20	£1099.96			£91.66
July	48.4	£25.91	203.6	£30.54			-£4.63	298.3	£27.30	£22.67	£1122.63			£93.55
August	110.9	£28.74	155.7	£23.35			£5.39	285.5	£26.52	£31.91	£1154.54			£96.21
September	248.8	£44.39	124.2	£18.63			£25.76	476.4	£37.78	£63.54	£1218.08			£101.51
October	432.0	£73.37	25.2	£3.78			£69.59	1436.3	£96.23	£165.82	£1383.90			£115.33
November	618.8	£115.12	9.4	£1.40			£113.72	2401.2	£153.74	£267.46	£1651.36			£137.61
December	785.1	£140.05	9.2	£1.38			£138.67	2994.1	£186.77	£325.44	£1976.80			£164.73
Totals	4787.1	£1053.49	1436.9	£215.53			£837.96	17185.8	£1138.84	£1976.80				£164.73
2026														
January	849.4	£185.84	7.1	£1.07			£184.77	3510.8	£217.22	£401.99	£401.99	£37.01	£37.01	£33.50
February	598.46	£120.94	24.4	£3.66			£117.28	2829.7	£176.08	£293.36	£627.29	£157.44	£194.45	£52.27
March	413.5	£96.09	109.8	£13.17			£82.92	2241.0	£142.38	£225.30	£852.59	£133.36	£327.81	£71.05
April	206.3	£43.06	220.9	£26.51			£16.55	1503.5	£93.70	£110.25	£962.84	£97.75	£425.56	£80.24
May	110.6	£38.77	156.6	£18.79			£19.98	934.9	£62.39	£124.67	£1087.51	£6.25	£431.81	£90.63
June	87.2	£28.77	183.8	£22.06	3.52	£3.52	£3.19	522.9	£39.11	£42.30	£1129.81	-£29.85	£401.96	£94.15
July	27.2	£13.90	154.4	£18.53	14.25	£14.25	-£18.88	188.8	£16.84	-£2.04	£1127.77	-£5.14	£396.82	£93.98
August														
September														
October														
November														
December														
Totals														

The important things to note are a) the costs incurred in 2024 when we were first on Octopus Flux, then Intelligent Octopus, before we moved to Agile Octopus plus WW from October 2025 [NB the total cost with British Gas, pre-2024 was c.£3600 a year]; b) the costs remained virtually constant from 2024 even though the price cap went up in 2025; c) we have a running calculator to help us estimate how much we should set our Direct Debit at; d) we've used more gas (yellow) in 2026 (health reasons), but saved on electricity (green), and are heading for a considerable saving overall.