



Building distributed power plants across our homes





Harvey's depot could become a community-owned solar power station making it one of the first in the entire country. A solar panel would be installed on the roof of the building.



Solar power station plans for brewery

By AMIE MORRELL
The South Downs Press Staff

REMARKABLE plans are in the pipeline to make Harvey's Brewery a community-owned solar power station.

Harvey's would be generated from the roof of the former Laine Street in Lewes. The brewery's east wing and staff canteen are to be converted into solar panels.

The project would be generated from the roof of the former Laine Street in Lewes. The brewery's east wing and staff canteen are to be converted into solar panels.

The building of the project is being discussed by Lewes and South Downs Council. OVECO is a local and a physical organisation has been established to Lewes District Council.

There are several solar panel projects in the area. The first solar power station in the county - and, perhaps to build on Lewes' reputation as an environmentally responsible company.



HARVEYS













OVESCO
www.ovesco.co.uk

ONEZERO

GB Grid Carbon Intensity



63
gCO₂/kWh

	Wind	13600 MW	(45.1%)
	Solar	6400 MW	(21.1%)
	Nuclear	5100 MW	(16.8%)
	Gas	4100 MW	(13.6%)
	Biomass	890 MW	(2.9%)
	Other	100 MW	(0.3%)
	Hydro	41 MW	(0.1%)
	Belgium	0 MW	(0.0%)
	Coal	0 MW	(0.0%)
	France	0 MW	(0.0%)
	Ireland	0 MW	(0.0%)
	Netherlands	0 MW	(0.0%)





Demand & price

	Demand	26.93GW
	Price	£41.31/MWh



Environment

	Emissions	56g/kWh
	Temperature	16.76°C



Supply

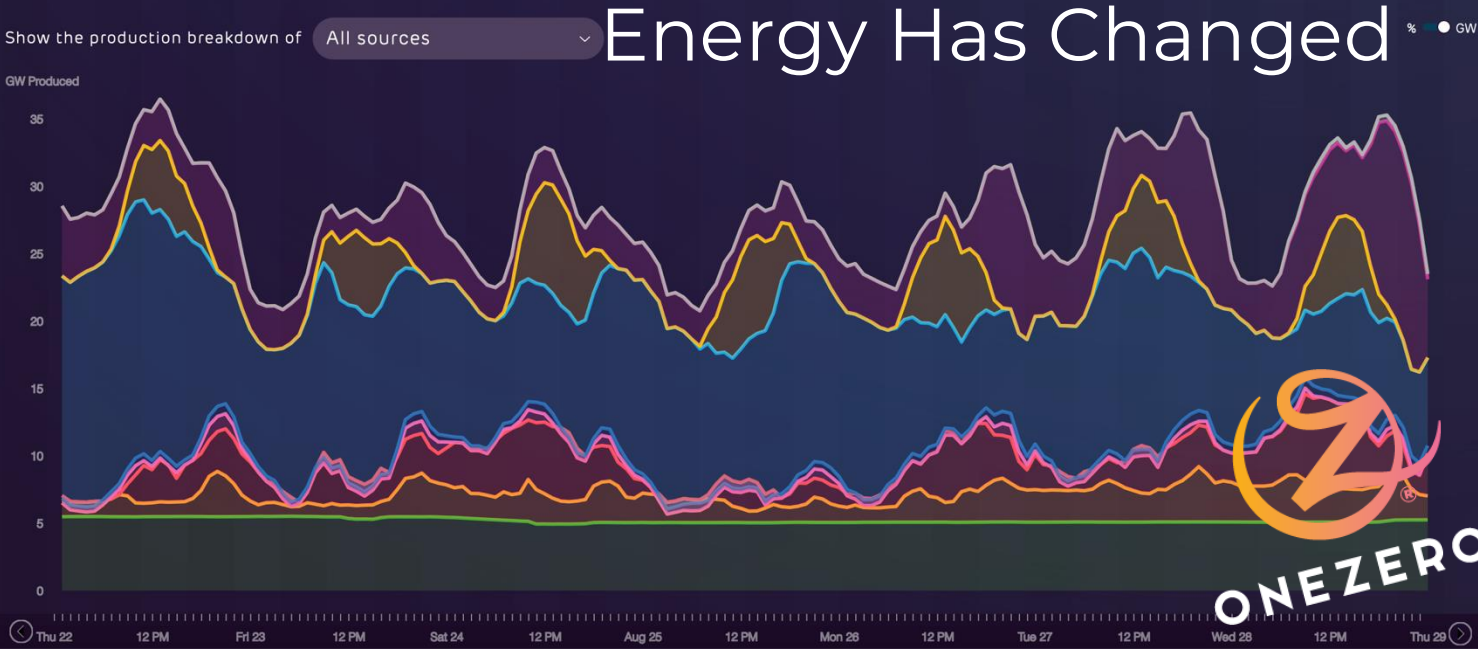
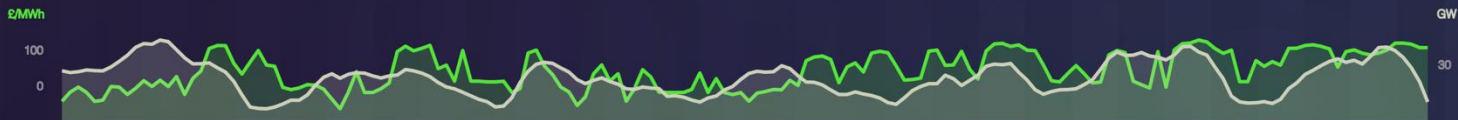
	Coal	0.04GW	0.12%
	Gas	4.33GW	15.15%
	Solar	2.07GW	6.89%
	Wind	11.38GW	41.24%
	Hydro	0.50GW	1.78%
	Pumped Storage	-0.02GW	-0.17%
	Imports & Exports	2.52GW	8.84%
	Biomass	2.02GW	7.21%
	Nuclear	5.20GW	18.94%



Research

Quarterly Reports

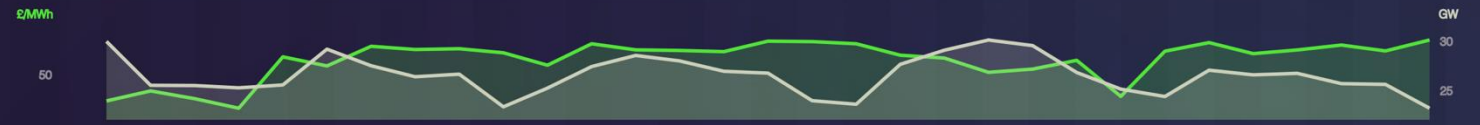
Methodology and Sources





Demand & price

○ Demand	26.55GW
○ Price	£69.53/MWh



Environment

○ Emissions	100g/kWh
○ Temperature	15.74°C

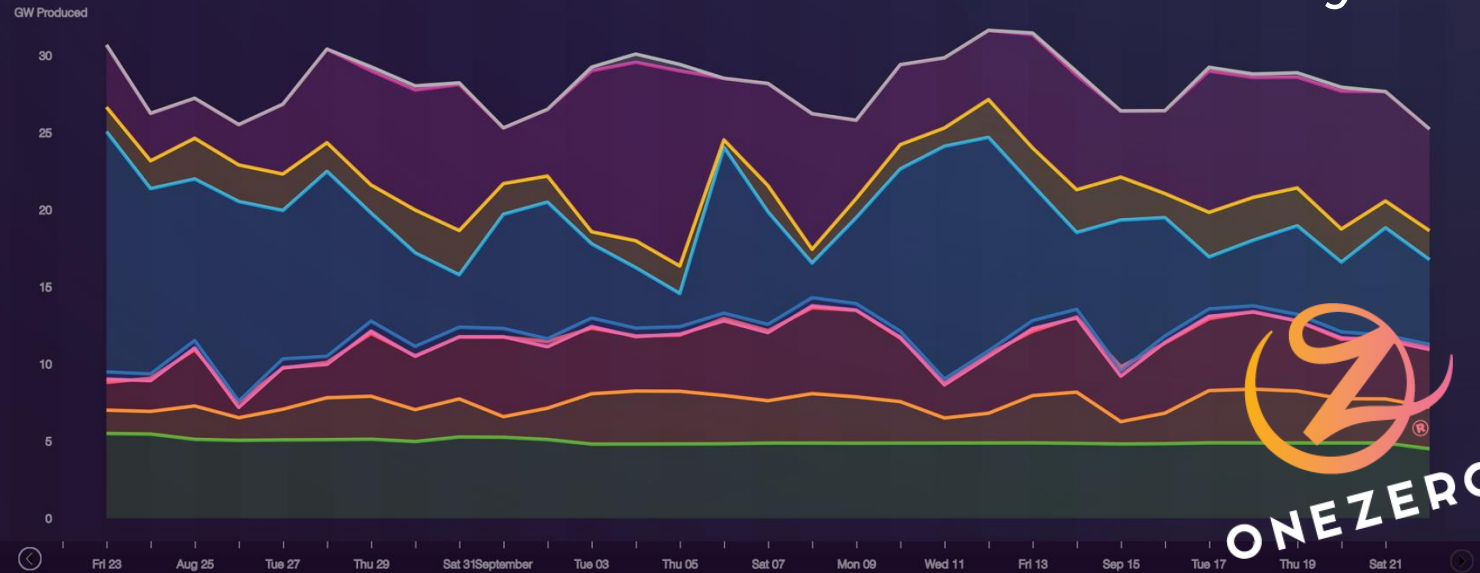


Supply

○ Coal	0.10GW	0.35%
○ Gas	6.45GW	22.76%
○ Solar	1.97GW	7.02%
○ Wind	7.84GW	27.83%
○ Hydro	0.47GW	1.67%
○ Pumped Storage	-0.05GW	-0.18%
○ Imports & Exports	3.88GW	13.85%
○ Biomass	2.55GW	9.03%
○ Nuclear	4.96GW	17.66%

Show the production breakdown of

Intermittency

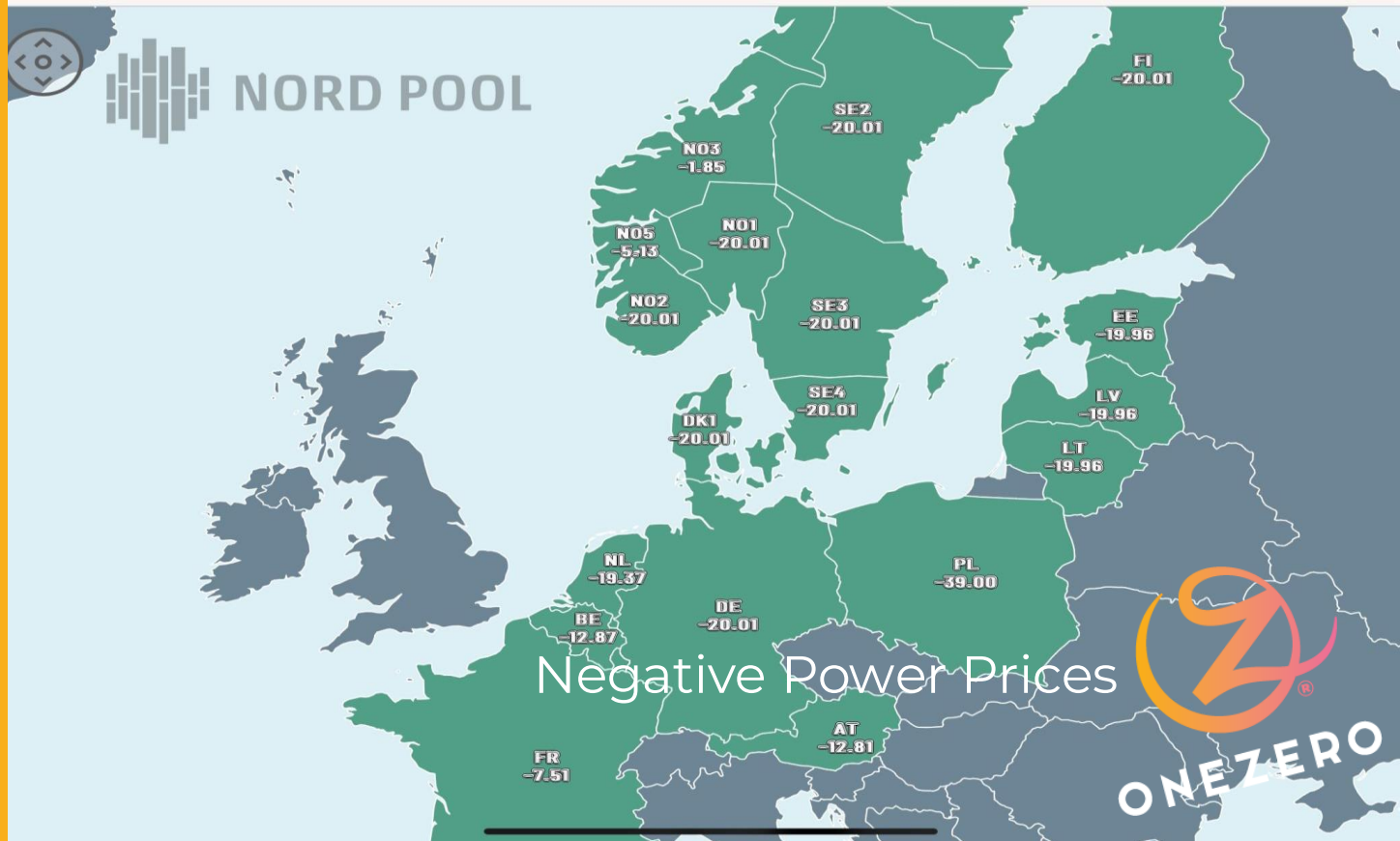


Research

- [Quarterly Reports](#)
- [Methodology and Sources](#)



NORD POOL

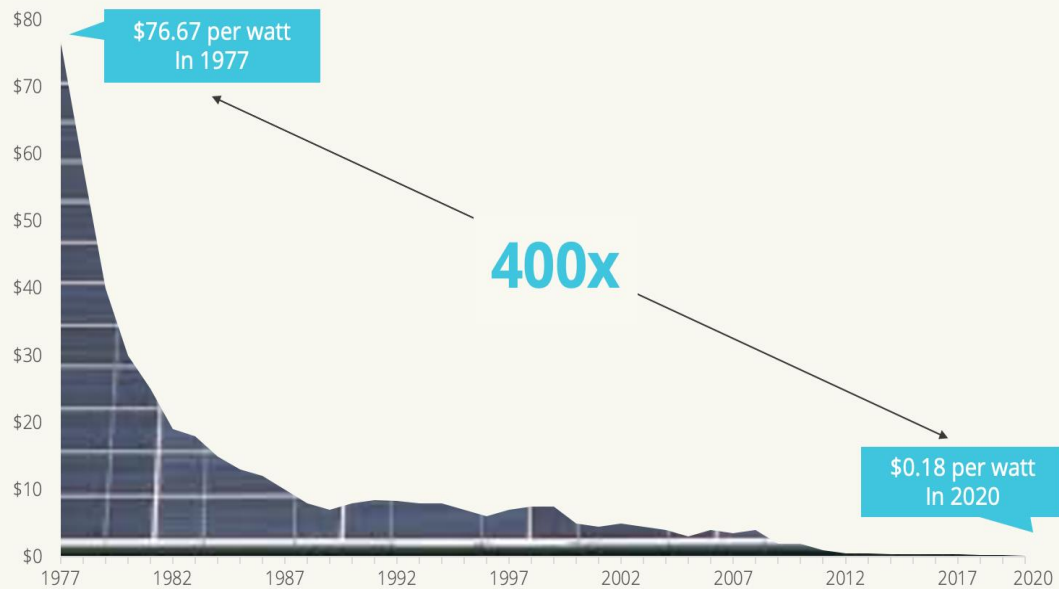


Negative Power Prices



ONEZERO

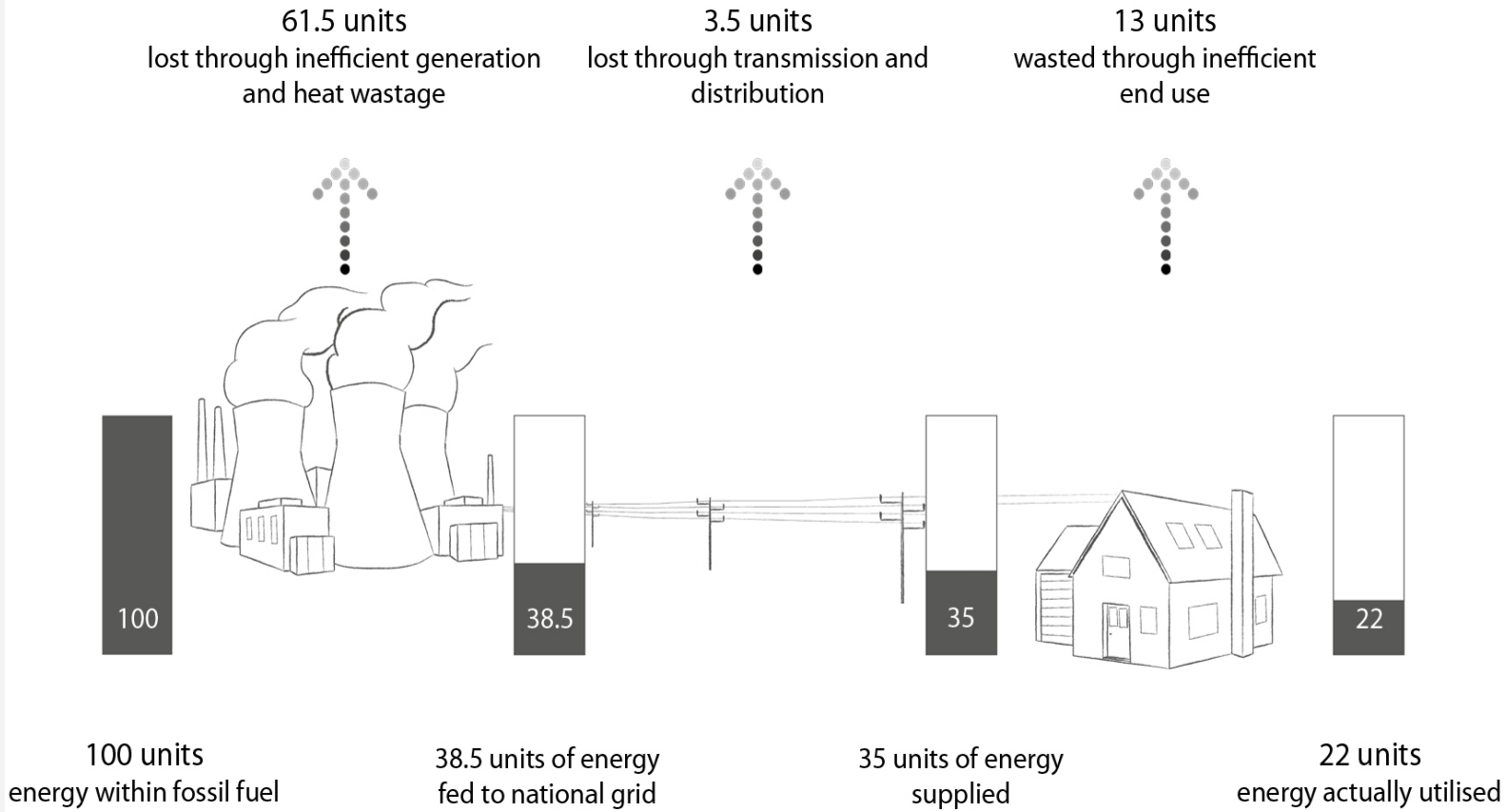
The cost of solar has dropped 400x



FREEING
ENERGY

Sources: Bloomberg, NREL | <http://fep.link/g116>





The existing system is inefficient

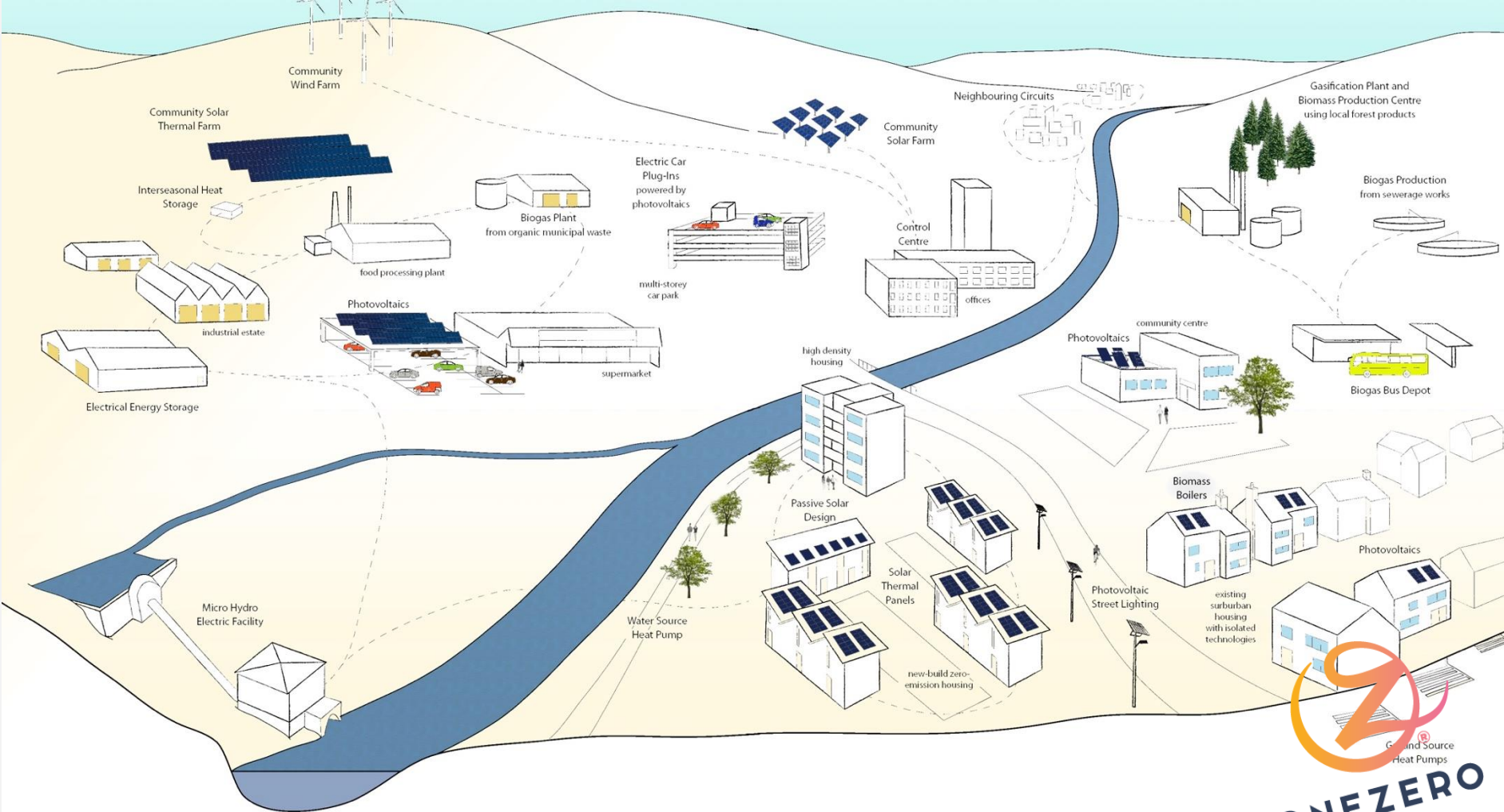


Health & Wellbeing

Are gas stoves really dangerous? What we know about the science

New studies show just how harmful to health they can be, but there are good alternatives to the open flame





What's this got to do
with me and my home?

#powertothepeople

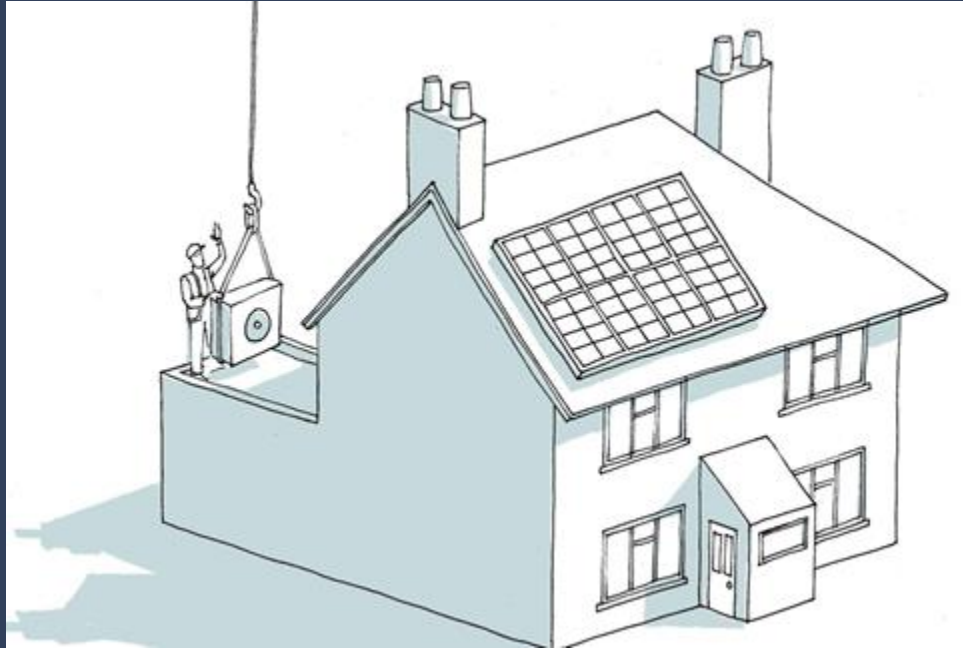


putting your home at the centre of the energy system

Can your home generate and store energy?

Yes - with solar and batteries

Digital tools to work with the intermittency and maximise the benefits



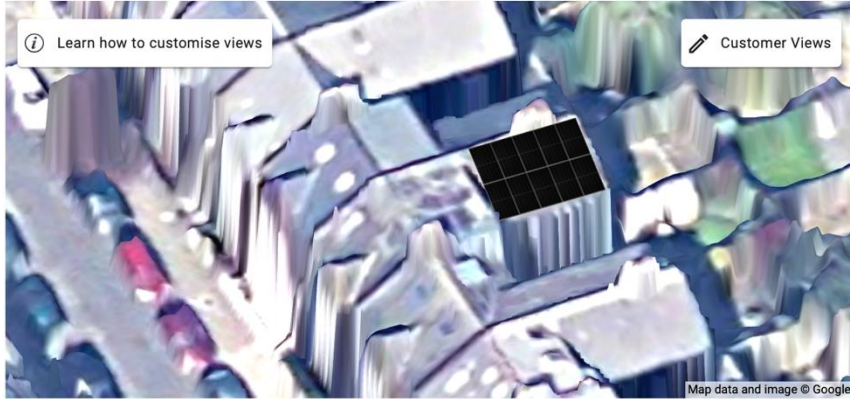
What does this look like in Stoke Newington London?

5.25 kW
System Size

£1,407
Estimated Annual
Electricity Bill Savings

£8,307
Total System Price

£8,307
Net System Price

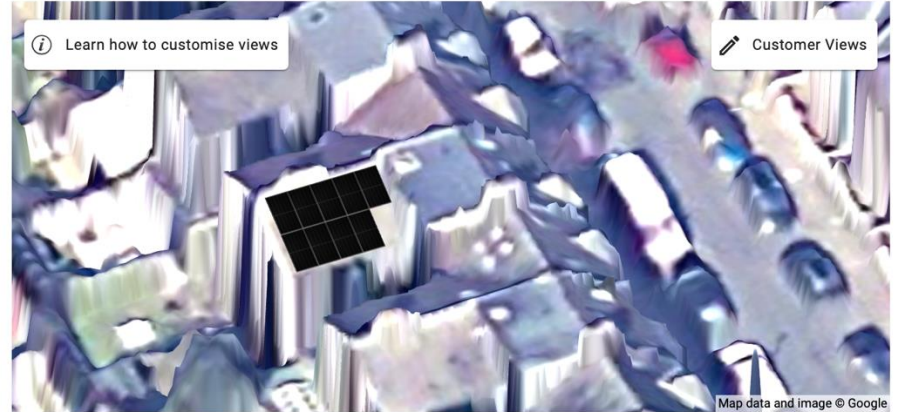


4.725 kW
System Size

£989
Estimated Annual
Electricity Bill Savings

£8,161
Total System Price

£8,161
Net System Price



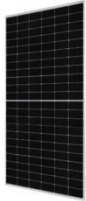
#powertothepople



What does this look like in Stoke Newington London?

Your Solution

JAM 60D42 LB
5.250kW of Solar Power
10 x JAM60D-42-525-LB-TS-SF
525 Watt panels
12 Year Product Warranty &
30 Year Linear Performance
Warranty
4,642kWh per year



[Play](#) [Details](#) [Specs](#)

JA SOLAR

**FoxESS H1 SERIES (G2) Hybrid
Inverter**
3.68 kW of Inverter Power
Fox ESS
1 x H1-3.7-E-G2

[Details](#) [Specs](#)



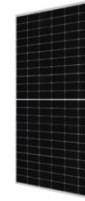
FoxESS EP5
5.18kWh of Battery Storage
Fox ESS
1 x EP5

[Details](#) [Specs](#)



Your Solution

JAM 60D42 LB
4.725kW of Solar Power
9 x JAM60D42-525/LB
525 Watt panels
12 Year Product Warranty &
30 Year Linear Performance
Warranty
4,190kWh per year



[Play](#) [Details](#) [Specs](#)

JA SOLAR

**FoxESS H1 SERIES (G2) Hybrid
Inverter**
5 kW of Inverter Power
Fox ESS
1 x H1-5.0-E-G2

[Details](#) [Specs](#)



FoxESS EP5
5.18kWh of Battery Storage
Fox ESS
1 x EP5

[Details](#) [Specs](#)



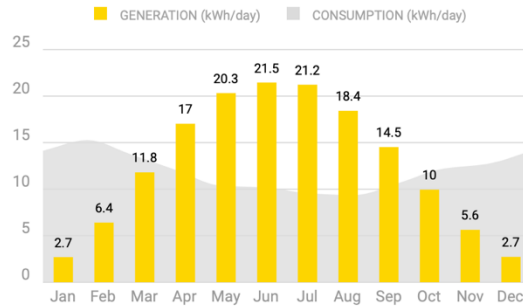
#powertothepople



What does this look like in Stoke Newington London?

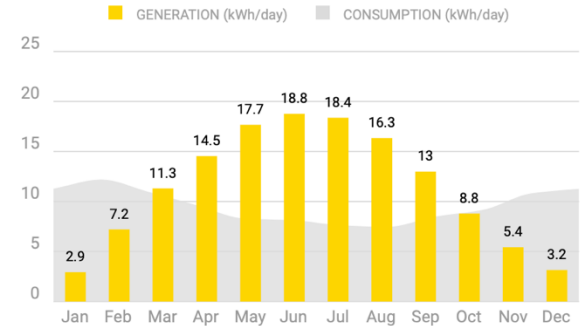
System Performance

106%
Energy From Solar



System Performance

120%
Energy From Solar



#powertothepople



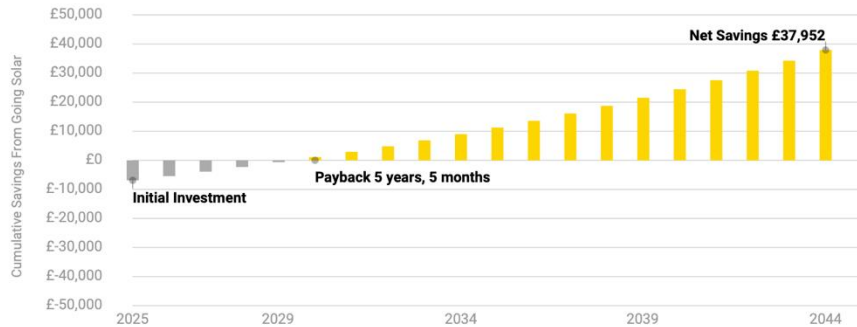
What does this look like in Stoke Newington London?

Net Financial Impact

$$\begin{array}{rcl} \text{£46,259} & - & \text{£8,307} & = & \text{£37,952} \\ \text{Utility Bill Savings} & & \text{Net System Cost} & & \text{Estimated Net Savings} \end{array}$$

Cumulative

Annual

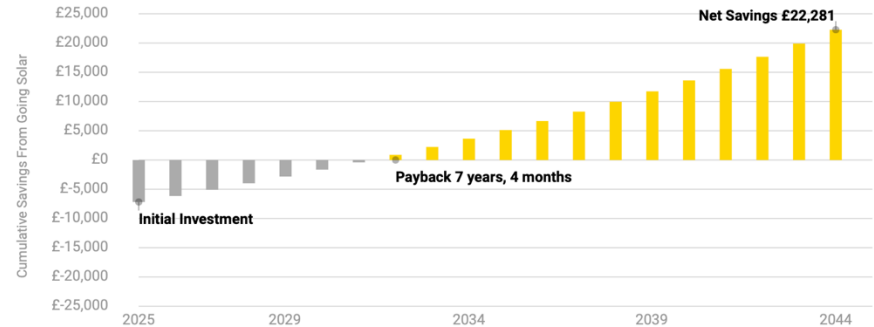


Net Financial Impact

$$\begin{array}{rcl} \text{£30,442} & - & \text{£8,161} & = & \text{£22,281} \\ \text{Utility Bill Savings} & & \text{Net System Cost} & & \text{Estimated Net Savings} \end{array}$$

Cumulative

Annual



#powertothepople



integrations



EV Chargers

- Integrates with your system for optimised charging

Immersion Diverter

- Divert excess summer electricity to heat hot water and reduce your gas bill

Remotely controllable devices

25% heat lost through the roof

Insulation



300% efficient

Heat Pumps

vs your gas boiler



75% efficient



Delivered by local
Tradespeople



the money

Fund it yourself – always gives the best savings

Mortgage extension – Nationwide £20k 0% for home energy upgrades

Lease finance – save more than you pay with Onezero and Hometree

Local finance scheme – could we invest in our neighbours retrofit?

Renewable economy

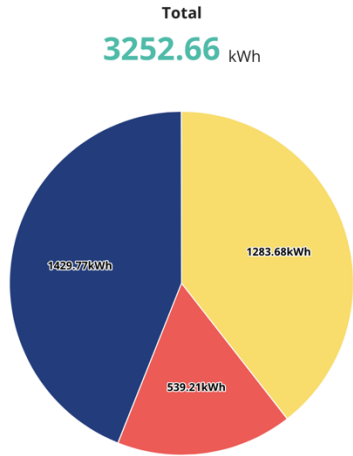
1/30th of the volume
extraction of current
society

Extraction



What does this look like?

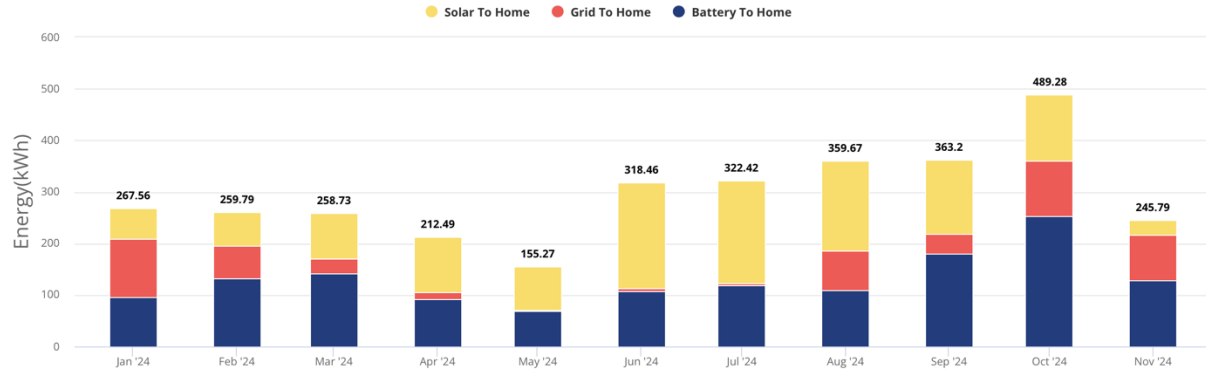
Annual energy flows for a home in Ringmer



Solar To Home
1283.68
kWh

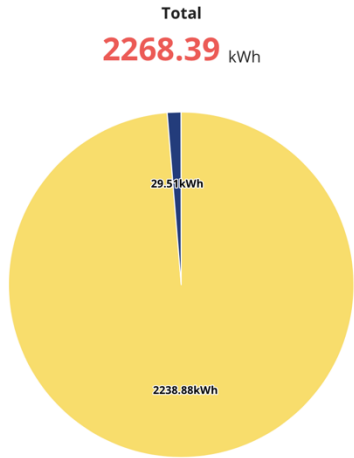
Grid To Home
539.21
kWh

Battery To Home
1429.77
kWh

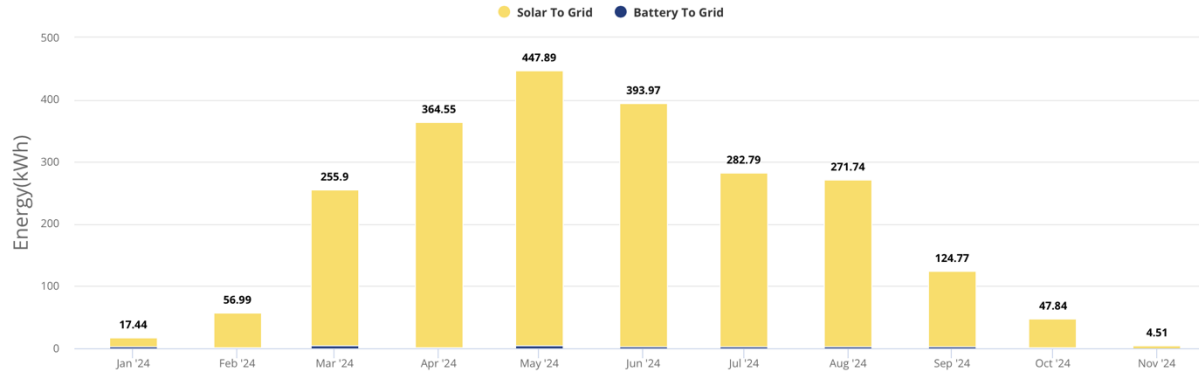


What does this look like?

Solar export worth over £300

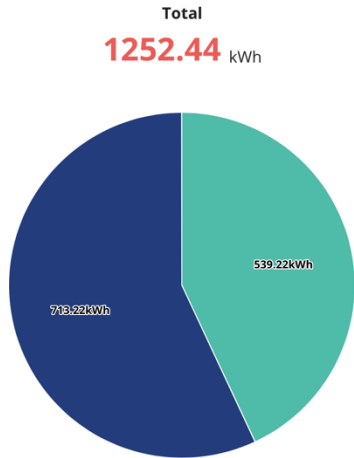


Solar To Grid
2238.88
kWh

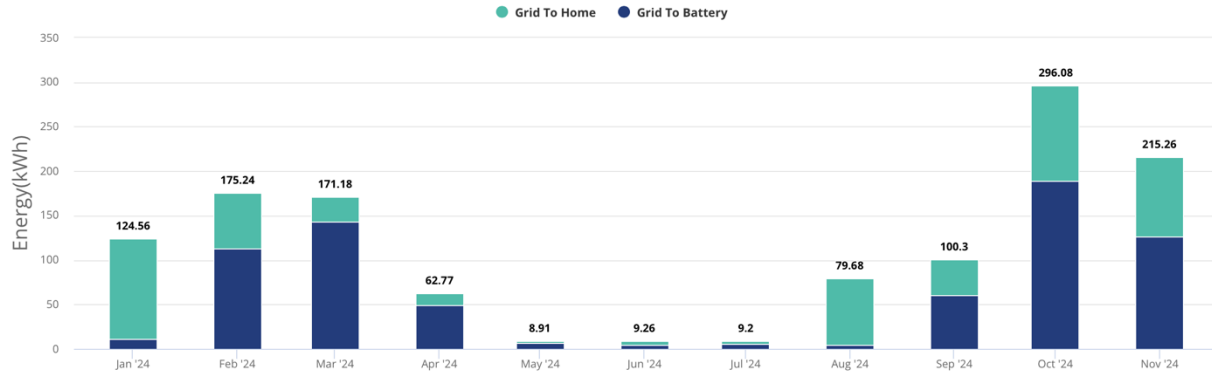


Battery To Grid
29.51
kWh

What does this look like?
Import massively reduced – gas gone completely



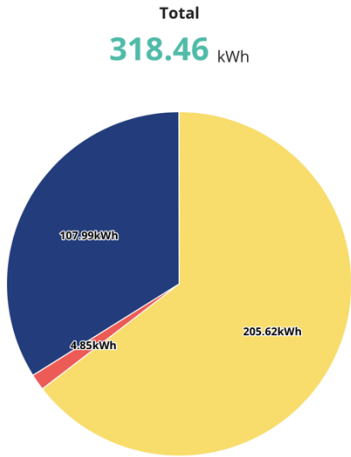
Grid To Home
539.22
kWh



Grid To Battery
713.22
kWh



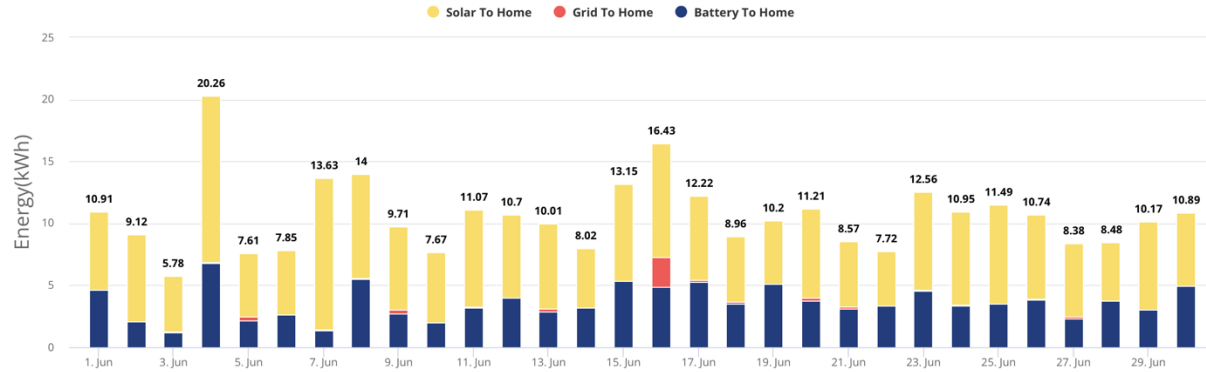
What does this look like? June



Solar To Home
205.62
kWh

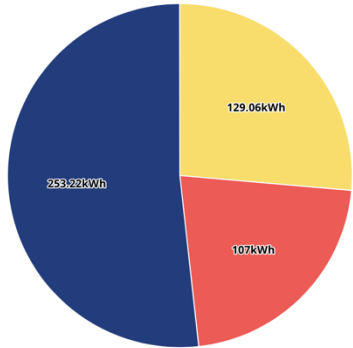
Grid To Home
4.85
kWh

Battery To Home
107.99
kWh



What does this look like? Oct

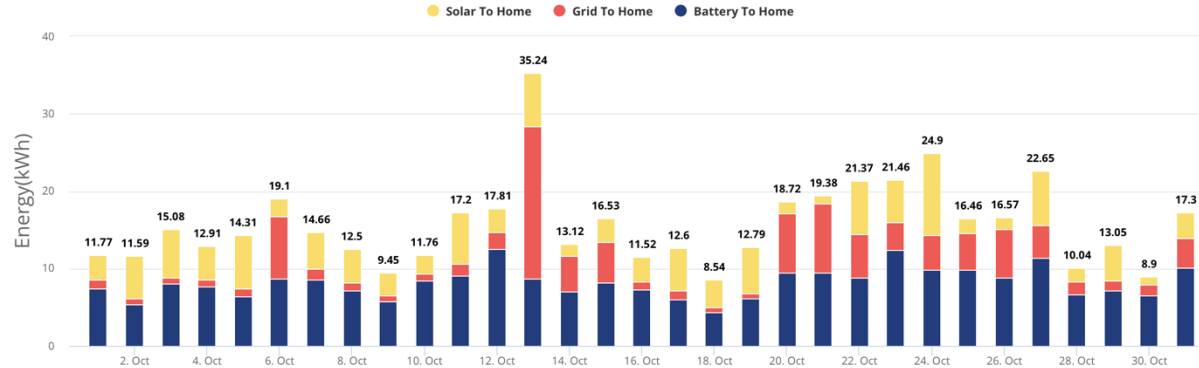
Total
489.28 kWh



Solar To Home
129.06
kWh

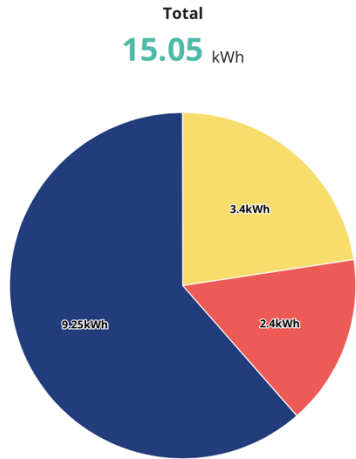
Grid To Home
107
kWh

Battery To Home
253.22
kWh

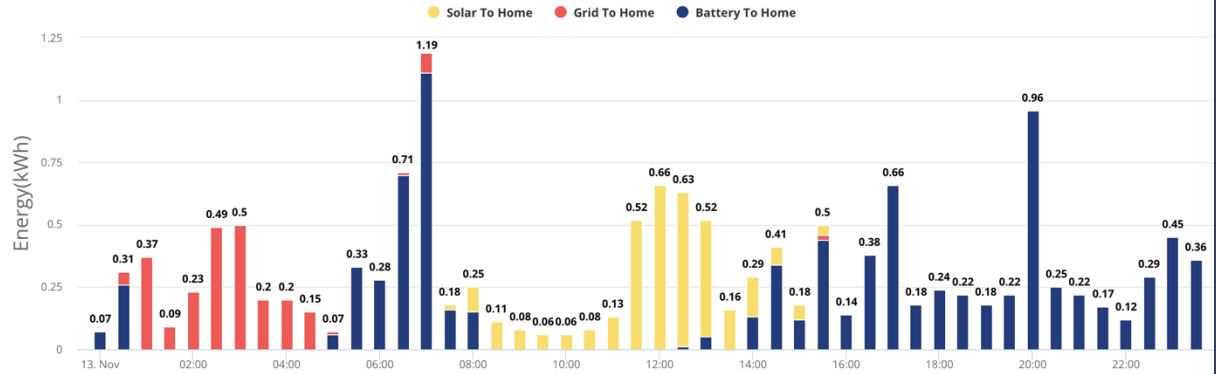


What does this look like?

Oct – daily snapshot



Solar To Home
3.4
kWh



Grid To Home
2.4
kWh

Battery To Home
9.25
kWh

Long Term Focus



Maintain an ongoing relationship with you to help you optimise the systems.

Taking tariff signals and managing your systems to reduce imported energy costs by picking the cheapest and greenest import windows.

Aggregator and manager of distributed energy resources in tight geographic areas.





What next?

- Sign up for a free survey
- Talk to your neighbours
- Promote through local Whatsapp and FB groups
- Get a bespoke design and recommendations
- Get an install booked in
- Join the energy revolution

Power to the
People

Want to get involved?
howard@onezero.energy
ed@onezero.energy

