

Agenda

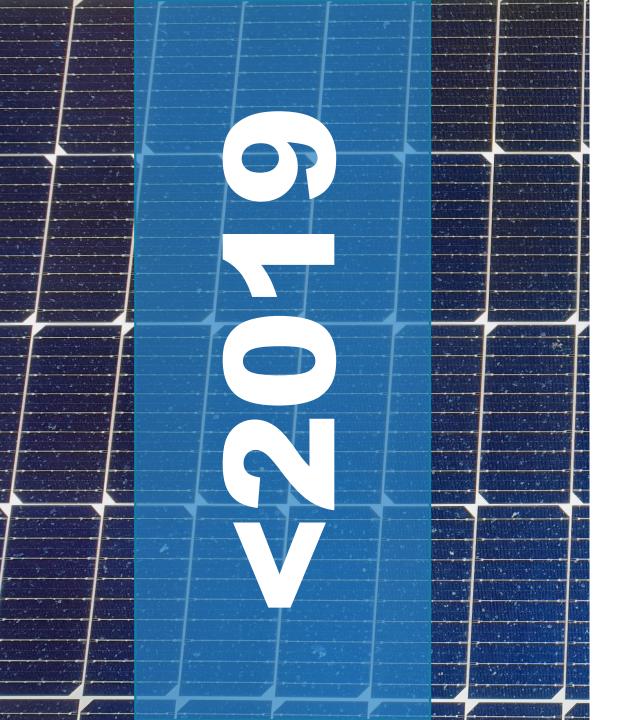
Why we decided to go Green

The Plan

The consequence (so far)

Conclusions

Questions



Why Green?

Eek!: Retirement?

What does Nixon Towers cost to run?

Q

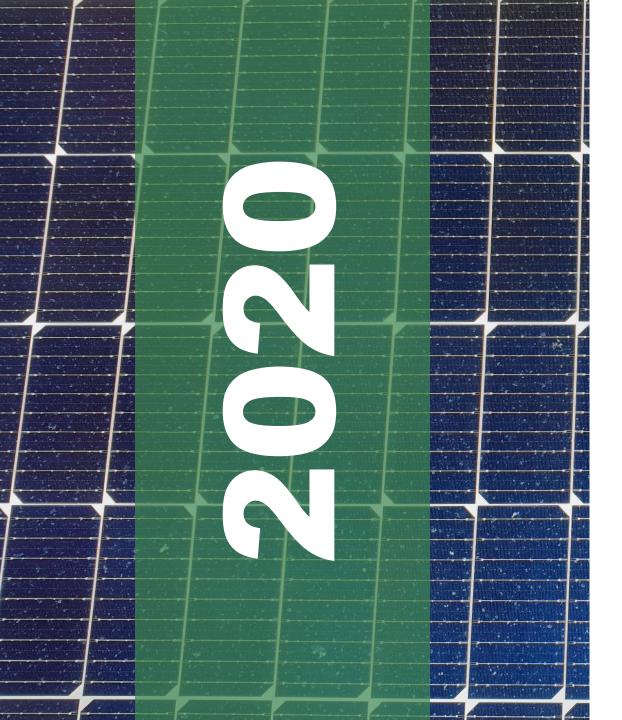
Looking at pension pot

What are essential costs? What can we reduce?

Led to detailed analysis of all costs

Annual utility + fuel costs

•	LPG (heating and hot water)	£2k
•	Oil (aga)	£0.8k
•	Electricity	£1k
•	Water	£1k
•	Petrol and diesel	£2.7k
•	Total	£7.5k



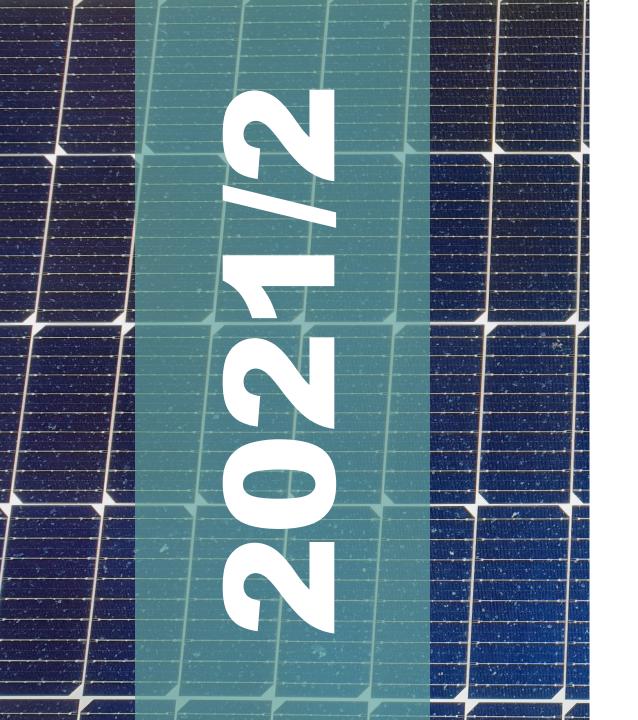
Why Green?

Climate change research

Research and awareness

Desire to reduce personal impact

Desire to help others reduce impact



Why Green?

Net zero plan

Plan to reduce:

- Electricity usage
- LPG usage
- Oil usage
- Diesel / petrol usage

Supplier selection

Planning permission (listed house)

Cost of living crisis

Focus on ALL costs Reduced usage

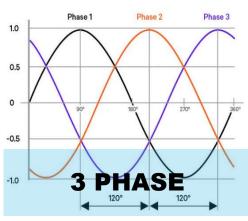
Ukraine invasion

2 extra people in house Stopped work to set up CAUSN Cut costs!!!!!









Feb 2022 Feb 2022 Feb 2022 Apr 2023

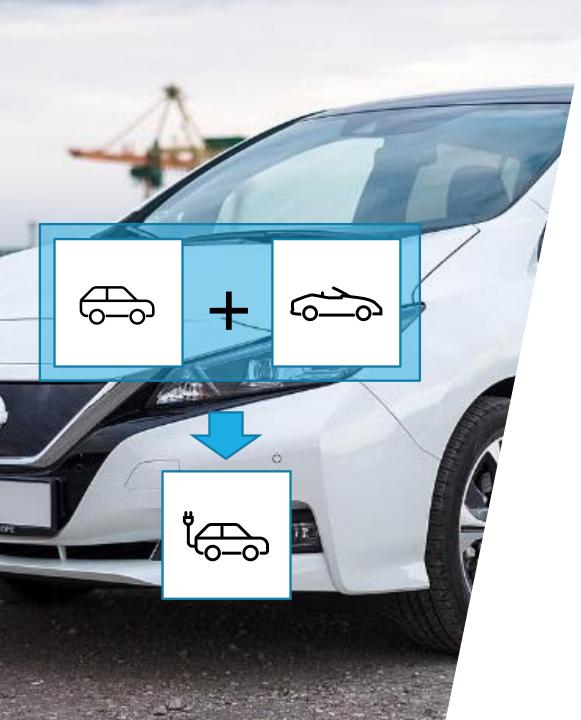
Net Zero plan



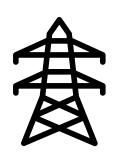
Generate majority of load Use off-peak for the rest



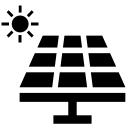
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Electric Vehicle



Charge off peak (0:30 - 4:30) @ 7.14p / kWh Typically circa £2.40 for 130 miles



Use excess solar to charge car battery

Avoids:

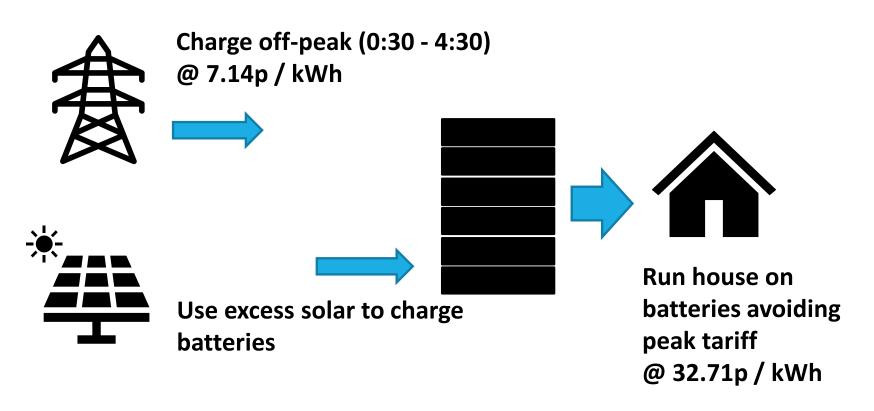
- Petrol @ lots per litre
- Car tax

Reduces:

Services costs (less to go wrong)



Home batteries



Plus:

Manual power back up during power cuts



Zappi Car Charger

Plus:

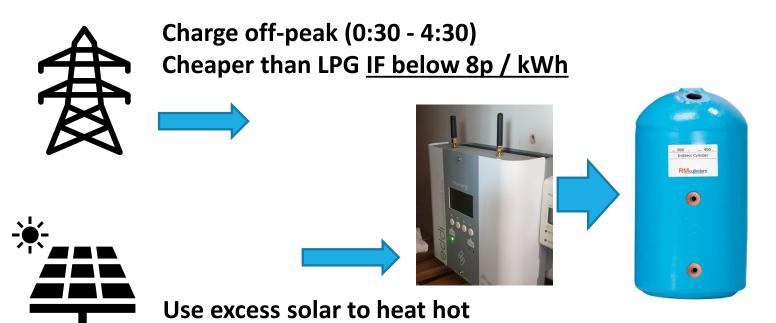
- Integrates all components
- Allows setting of priority of what to do with excess power
- For instance:
 - 1. House demand
 - 2. Batteries
 - 3. EV
 - 4. Hot water (Eddi)
- Provides data





Eddi (for hot water)

water





Heat Battery

Charge off-peak (0:30 - 4:30) e.g. 7.14p / kWh





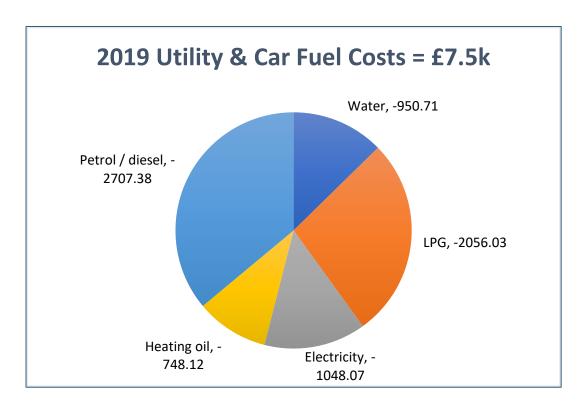


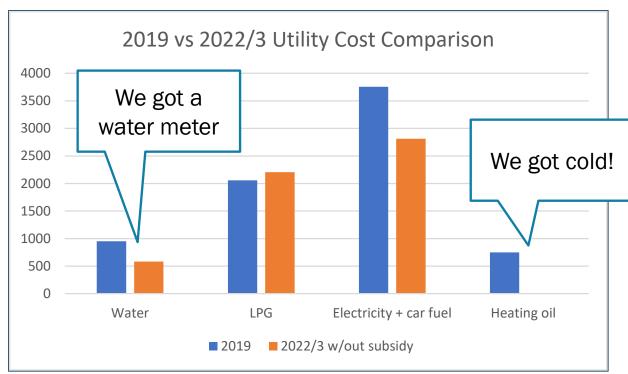
Use excess solar to heat up Heat Battery (sandstone block)

Sandstone heats hot water through heat exchanger

Objective: to get rid of LPG

And the Consequence was...





2022/3 Electricity + car fuel costs (with Government fuel subsidies removed) = £2,813 (-25%)





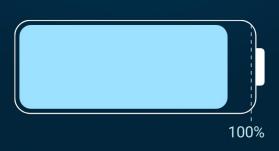
Power

 $0.00 \, \text{kW}$

- Quickest payback: 2 3 year
- Cost circa £5k
- Considering adding more

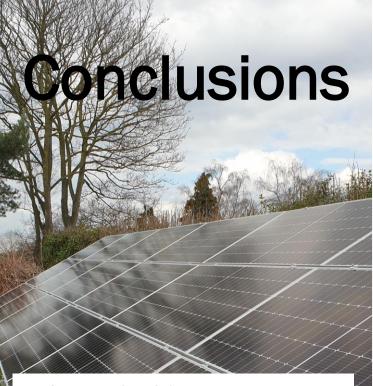
Charging...

99%



Voltage 320.70 v

Current 0.00 A



Solar and Eddi:

- Only run through Winter
- Proof will be over next 6 months
- Cost circa £15k
- Better payback once Heat Battery installed

The Installer is key:



- Many poor ones
- Single component focused
- Don't care about after service

I found a good one!

Check basics:

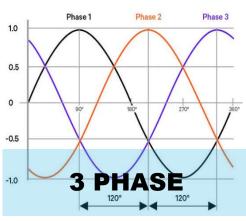


- Roof insulation
- Drafts
- Consider thermal survey









Feb 2022 Feb 2022

Feb 2022

Apr 2023

Questions

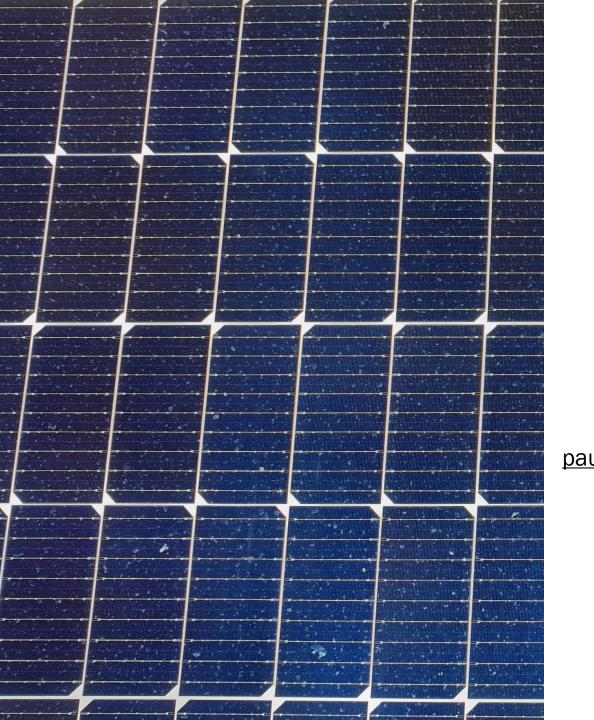








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