

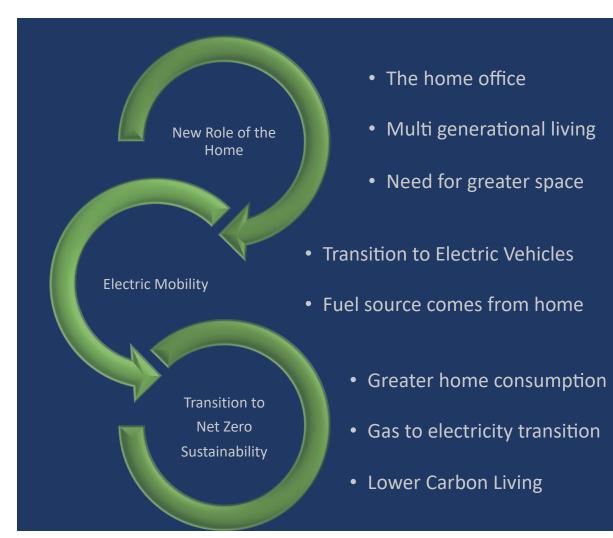
Taking Back Control of Energy

November 2022

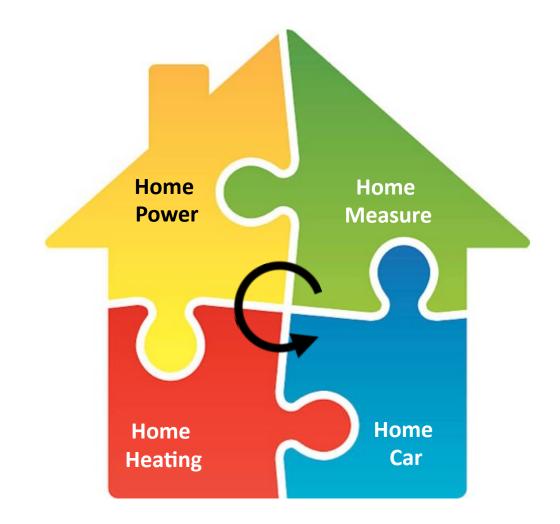
Why we are coming *Home*

Energy bills have spiraled out of control...

Neutral Home



...requiring joined up thinking in the home





We have learnt by doing



Neutral Home Ltd © 2020

Neutral Home We help the homeowner throughout their journey

Alphaess

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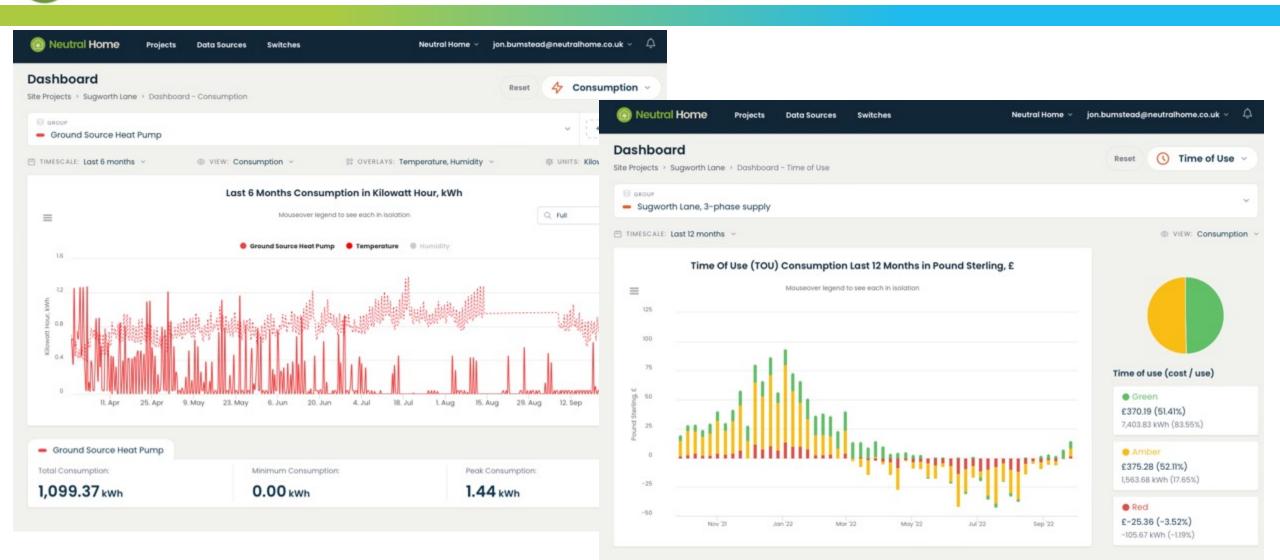
Stage 1: Data Driven Design	Stage 2: Implement with Trusted Partners	Stage 3: Optimize the Results
Your project goals	Phased delivery planning	Support & warranty
Baseline measurement	Manage Implementation/Partner Delivery	Remote energy monitoring/benchmarking
Thermal imaging	Design adaption	Seasonal energy parameter setting/optimization
Solution design reviews	Solution commissioning	Results versus the design targets
Energy modelling	MCS/RHI certification	Next generation technologies
Firm vendor quotes	• Sign off	
Financial case	Power-Aid	

Kensa Heat Pumps





Its starts with measurement



Neutral Home **Results - A bigger home (50%) with smaller bills (33%)**

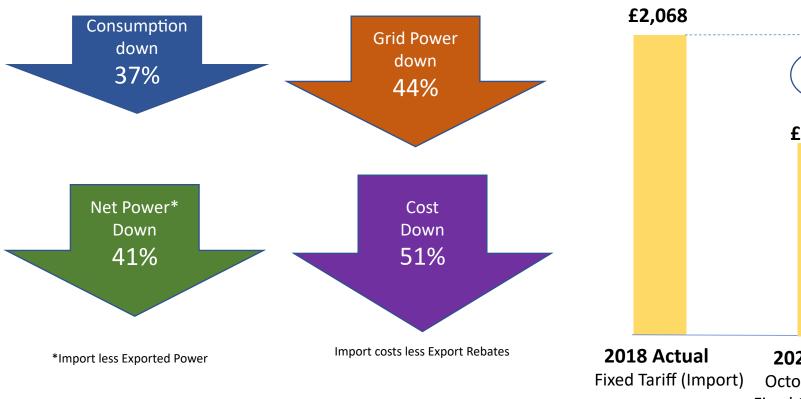
End October YTD 2022 (Ten Months) vrs Base Year (2020)

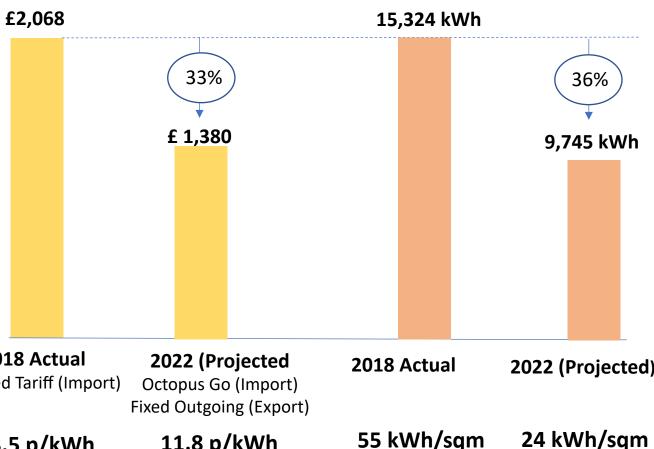
Comparison: Pre versus Post House Transformation

Energy Cost

13.5 p/kWh

Energy Usage





11.8 p/kWh

Climatic adjustment versus base year 2020:

- Oct YTD 2022 3% warmer than Oct YTD 2020 (degree days)
- Oct YTD 2022 4% less solar generation than Oct YTD 2020



- Take back control of energy, its time to act
- Insulate your property now
- Study your energy data, put it in context, and understand your base-loads and where your quick wins are
- Take the ten-year view to see the full potential
- The integrated approach is the optimal approach (Consider your home and cars together)
- Technologies have great potential but require strong orchestration to get the results
- You can halve your energy bills at least and get a respectable return on your investment
- You can stabilize the cost of your energy in the future



With a little help from your friends



Home Why? How Contact



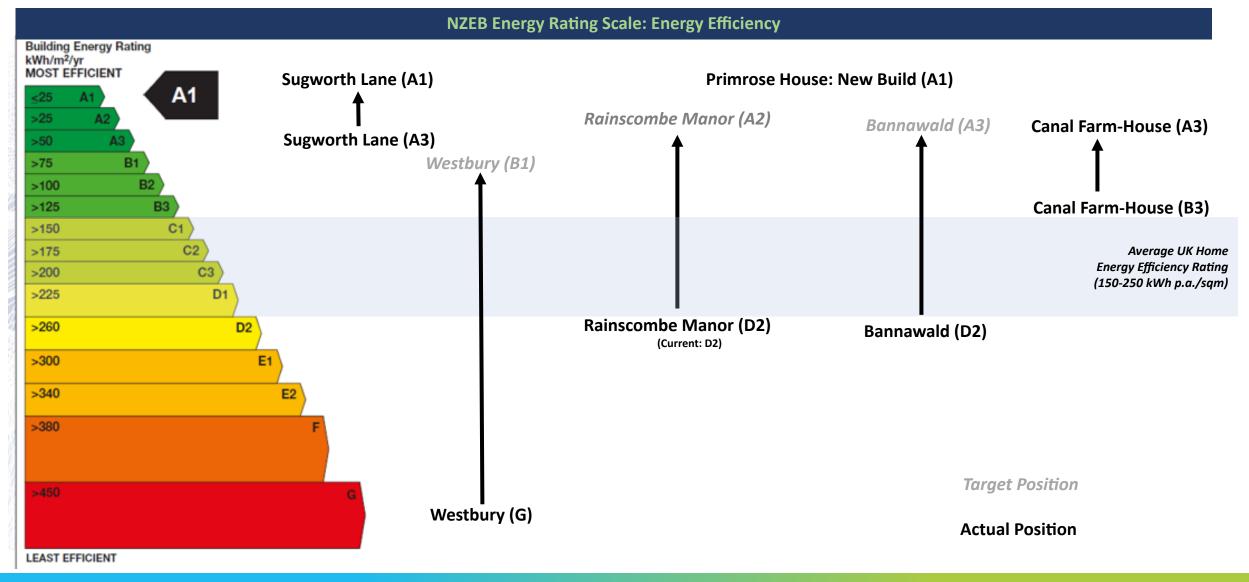
Jon.Bumstead@neutralhome.co.uk

Tel: 07767 867536

Or visit us

www.neutralhome.co.uk

Neutral Home What Improvement is possible?: Some of our projects





Our Customers' Problem

Home owners receive a barrage of confusing information from companies who want to sell point solutions



Solar Panel Mis-selling



£1.5BILLION green housing scheme collapses in just 6 months due to rushing claims

Green Grants Fiasco



- Why net zero ?
- Where to start ?
- What to do ?
- Who to trust ?
- How much to pay ?
- Will it save money?



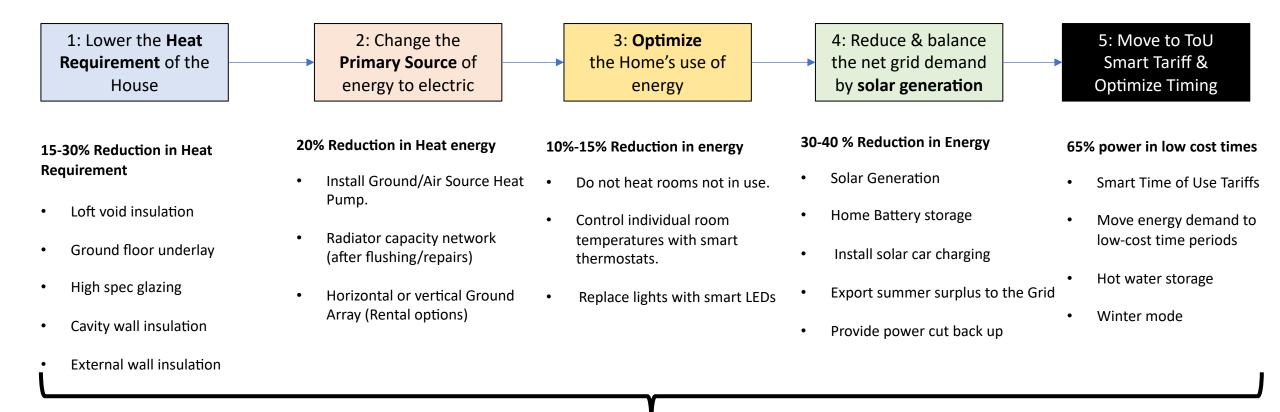
Energy Deal Switching !



"Smart" Meter Debacle



Sequencing The Design



Energy Reduction	Carbon Reduction	Cost Reduction
84%	85%	126%

Our Private Home Projects

Project 1: Future Proof a 325sqm Property



Status/Results:

- All Electric Power (inc car)
- Zero emission property
- 50% expansion in space
- 56% reduction in energy cost
- ROI: 7%

Project 2: Deliver to a fixed budget/ROI



Status/Results:

- Energy Monitoring
- Retrofit Insulation
- Solar & Battery
- Electric cars
- TOU Tariffs
- 51% reduction in energy cost
- ROI: 26%

Project 3: 100% Clean New Build 350 sqm Property



Status/Results:

- All Electric Power (Inc Electric Vehicle)
- Highly Insulation fabric
- Innovative Solar Tile Roof
- 22 kWh Battery Storage
- Modelled 90% cost reduction Five year payback

Project 4: Retrofit a Highly Inefficient Edwardian House



Status/Results:

- 100% Renewable Goal
- £ 6,000 p.a. energy bill
- Replace Oil Heating with GSHP
- Insulation upgrade
- Solar/Storage
- Modelled 75% cost reduction target

Neutral Home Impact of Time of Use tariffs: Before and after cost difference

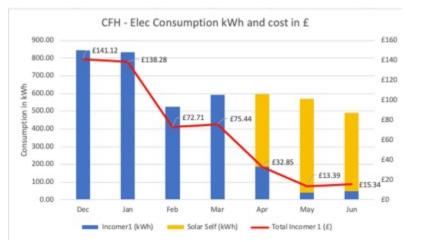


Canal Farm House: Power Generation & Demand Management



The detailed electricity sub-metering enabled planning and monitoring of other retrofit technologies:

- 25 solar panels (9.3 kWp)
- SolarEdge + optimisers
- 10 kWh home battery
- T-Smart hot water controller

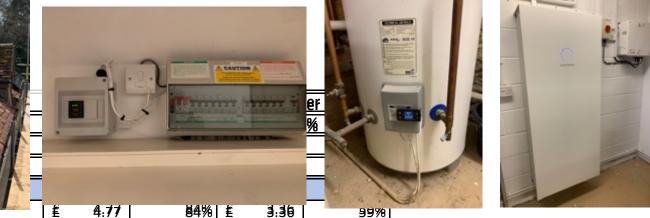




ABIIE

In the 2 months after monitoring was installed consumption fell 33%, saving £130.

In the 3 months after solar and battery installation electricity costs fell by a further 69% to an average of £20.50 per month.



The Heat Challenge: Insulate, Insulate - and draft proof



Aglie



There's much to do before Canal Farm House can lose its gas central

39%

- Windows, doors

84% E

3:38

4:11

£

