



Essex Climate Action Commission 14th November 2022

Building a retrofit service for households

Russell Smith, Managing Director

Introducing Parity Projects



Clarion 118,000 L&Q 69,000 Peabody 58,000







Hammersmith and Fulham 17,000 Plus Dane 12,000 Wandle 7,000





Ferguslie Housing Association 1,000

- Focused on energy and housing for the last 14 years
- Currently 20 million homes under analysis:
 - Stock profiling
 - Energy performance profiling
 - Data quality analysis
 - Scenario testing of ways to reach energy efficiency and carbon targets





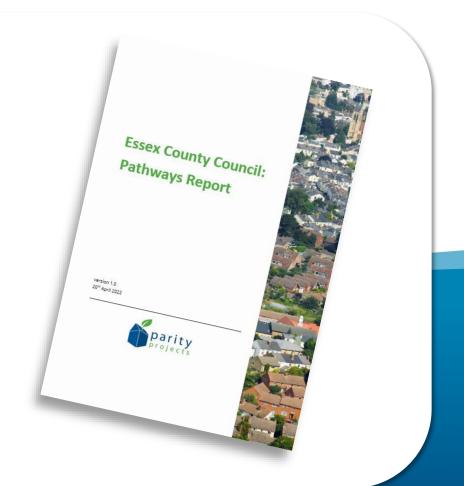




Scenarios for Essex Domestic Decarbonisation

Detailed analysis of every address in Essex. Scenarios modelled:

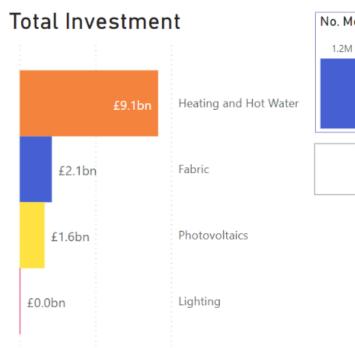
- Net Zero without disruptive fabric measures
- Net Zero with disruptive fabric measures
- Current common solutions only





Net Zero without disruptive fabric measures

Net Zero with disruptive fabric measures

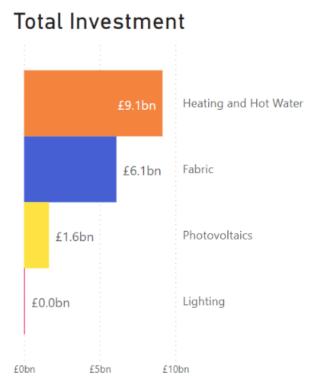


£10bn

£0bn

£5bn





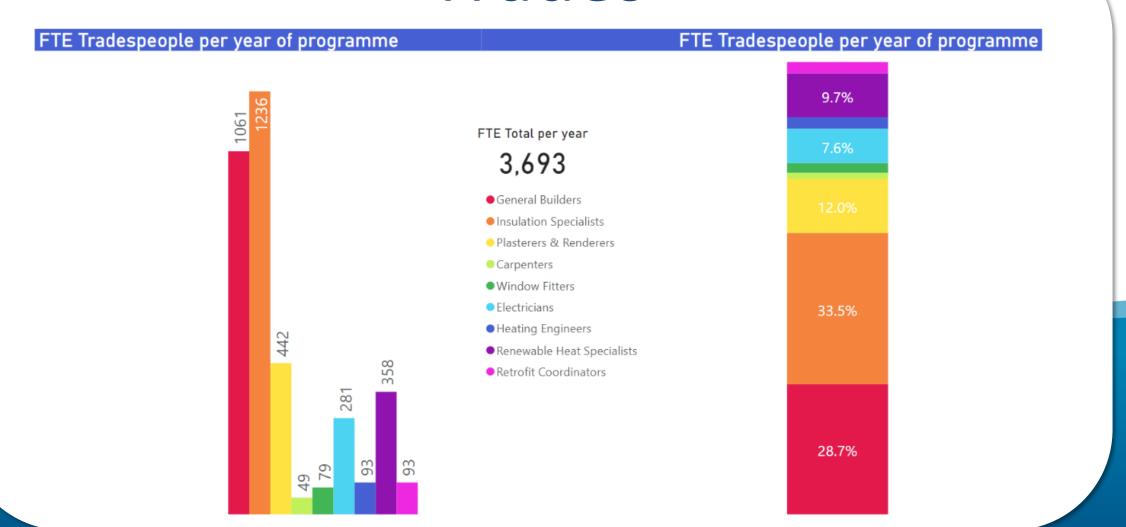


1	Total Investment	No. Meausures	Average Cost
Heating and Hot Water	£9,148,167,926	775,001	£11,804
Fabric	£2,123,255,887	1,219,763	£1,741
Photovoltaics	£1,638,606,435	367,011	£4,465
Lighting	£41,992,650	652,086	£64
Total	£12,952,022,898	3,013,861	£4,297

1	Total Investment	No. Meausures	Average Cost
Heating and Hot Water	£9,148,166,515	774,956	£11,805
Fabric	£6,098,436,618	2,114,417	£2,884
Photovoltaics	£1,638,606,435	367,011	£4,465
Lighting	£41,989,842	652,028	£64
Total	£16,927,199,410	3,908,412	£4,331



Trades





Why the need for a local scheme?

- Why Councils?
 - The business case for action is incredibly strong
 - Local branding works: trust is everything
 - The scheme has natural synergies with some council business centres:
 - Planning
 - Building Control
 - Economic Development
 - Education
 - 'Ground Up' action can be empowering for all and will create a movement for change.
 - Who else is going to do it?











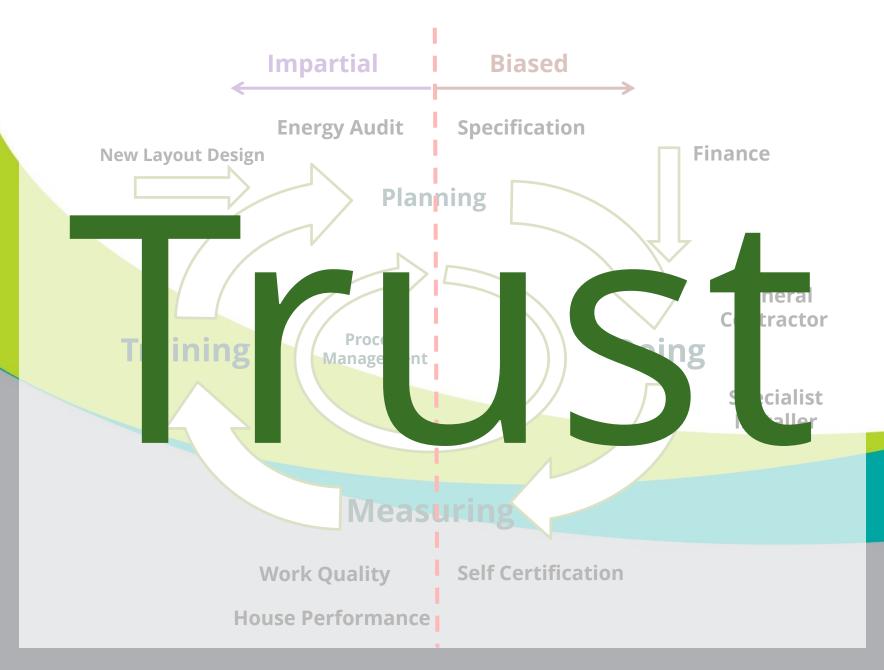


RetrofitWorks:

A replicable one-stop-shop model







It's all about small, local organisations

Challenges in the retrofit of a single home

- Retrofit strategy (whole house)
- Detailed design
- Budget
 - Simple economic payback?
 - Need to reduce this payback
- (Finance?)
- Procurement / value for money
- Translating design for the contractor
- Communication between all parties
- Cost control
- Quality Assurance
- Warranties and Guarantees
- Operation and Maintenance Guidance
- (Performance feedback)

the offer

There is no market for 'retrofit'......

Customers



- The offers are narrow and unattractive
- Not aware of measures and benefits
- No confidence in supply chain to deliver

Advocates





RETROFITWORKS

Practitioners



- Want to drive change
- Struggle to identify customers
- No defined, reliable, local supply chain
- Local economy?

Finance

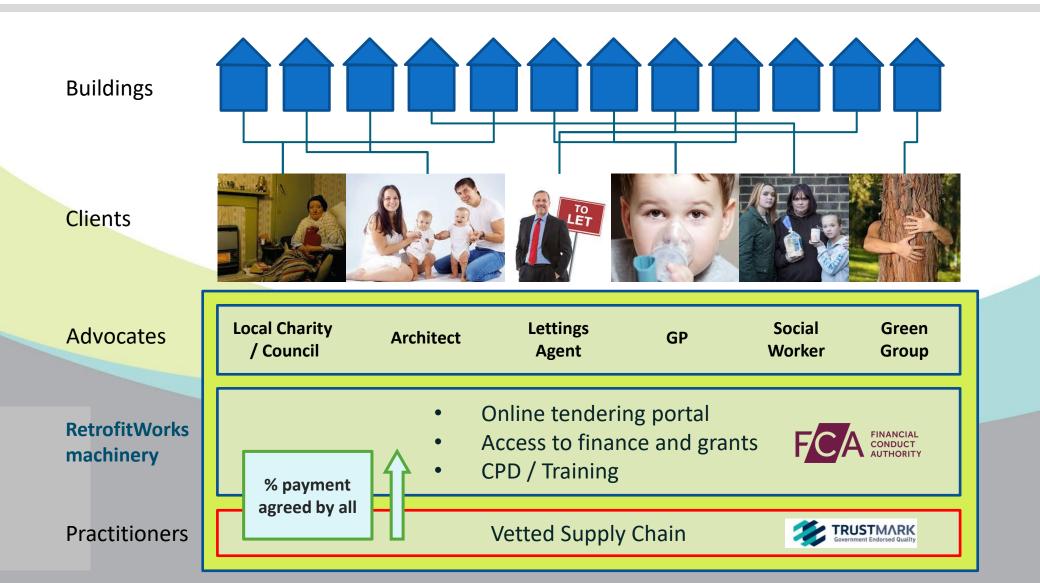
 Needs confidence in outcomes and ability to deliver to invest

- Have the capabilities but limited confidence in the market
 - Don't invest
 - Don't promote
- Could use some help to deliver





Model components



Model components

Plugging gaps in Identifying the existing Customers Reaching Existing supply supply chain Customers chain Doing the Work Pathways Trades analysis housing in Pathways Review of local Marketing/ analysis Training companies Social Media Local Advocate providers Local Local Advocate Survey Organisations **Local Advocate** engagement Organisations Retrofit Organisations events Coordination **Training** Design CPD Finance Tender Contracts Installation Oversight • Sign-off Feedback Feedback



GREATER LONDON AUTHORITY

- £4.5m fuel poverty programme
- Eligibility:
 - Affordable Warmth criteria under ECO
 - or Flexible Eligibility for ECO (borough specific)
- For eligible households in London boroughs:
 - GLA has £4,000 per property, **1217 homes**:
 - Energy related measures judgement based on analysis
 - Damp and indoor air quality issues can be funded in advance of energy works
 - We apply ECO funding first if applicable, reducing GLA input (currently running at 50%)
 - Some other boroughs have other funds e.g. Merton C.O.F.

79% vulnerable customers <5% drop out rate Lessons transferred to A2P market Reprocured for £38m in 2022

BEIS Supply Chain Pilots

















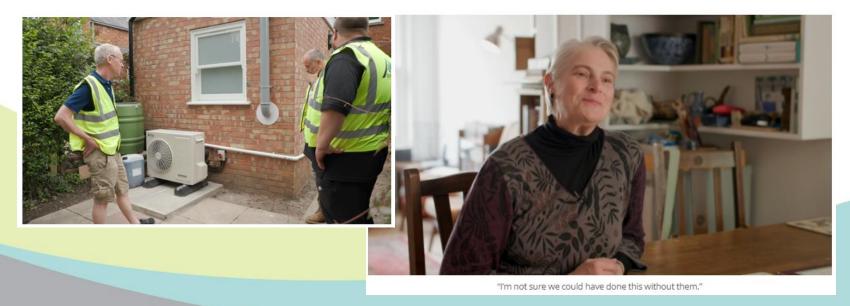






Cosy Homes Oxfordshire

- Launched April 2019
- Came into profit late 2021 1st ever scheme in the UK to do so.





- Ready for replication
- https://cosyhomesoxfordshire.org/



£35.000

£30,000

£25.000

£20,000

£15,000

£10,000 £5,000

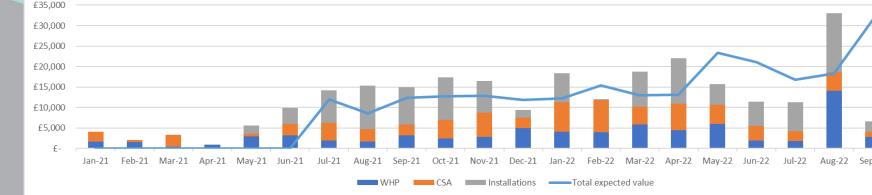
Cosy Homes Oxfordshire

BEIS grant of £734,000 in total over 2½ years from Nov 2018. Graph below shows income since Jan 2021:

- WHP = Customer buys Whole House Plan
- **CSA** = Customer Service Agreement if the job involves some additional works ahead of a tender process, this is charged.
- Installations = 10% of the value of the work as income to scheme WHP and CSA start immediately, but due to supply chain pressures, work took 18 months to start in earnest.

If the £734,000 was an investment, this will not be paid back for several more years.

Cosy Homes Oxfordshire - Income Actual vs Projected





Cosy Homes Oxfordshire

Lessons from CHO for the next iteration of launch:

- The offer was made with no firm supply chain in place – it was built over time – this delayed the ability to install
- The offer was very wide and no targeted at particular customer areas.
- The offer covered the whole county from the start - a lot of cost was built in travel before income was steady
- No local authority involvement at all

Improvements required for any new scheme:

Cover all possible measures with the supply chain from day 1

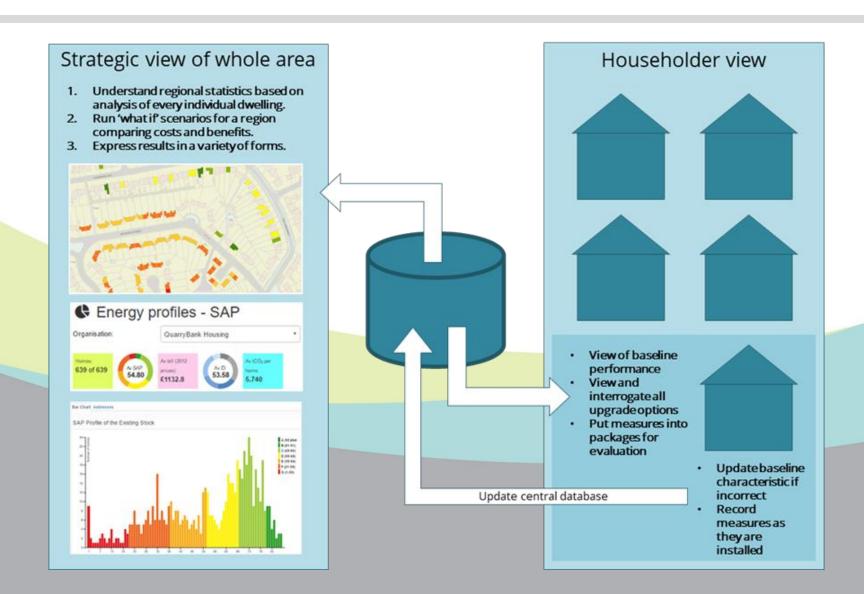
Target certain job types at first, then widen

Commence in one or two parts of the county with a focused offer, then widen

Involve Local Authorities and Community Groups to build the brand

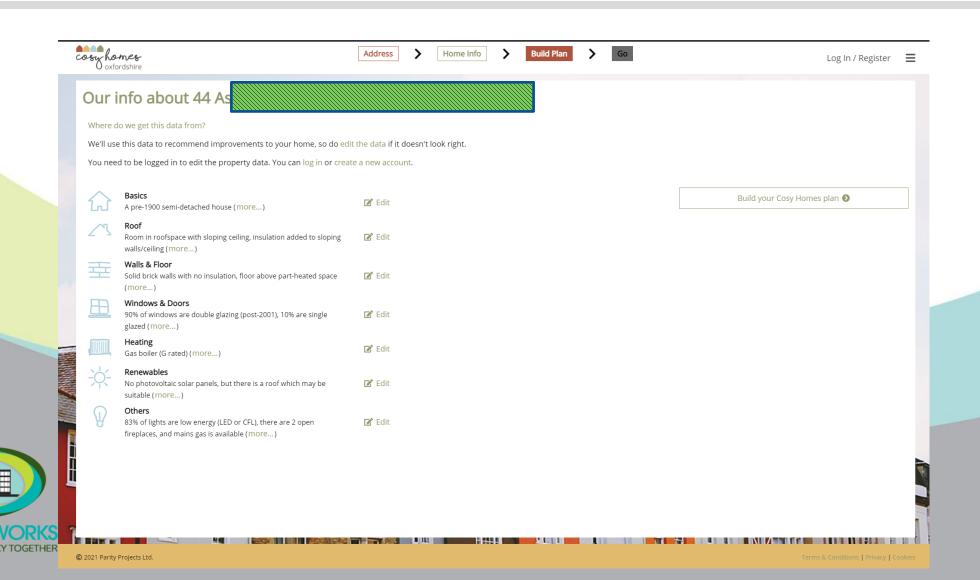


Smart Marketing (1)

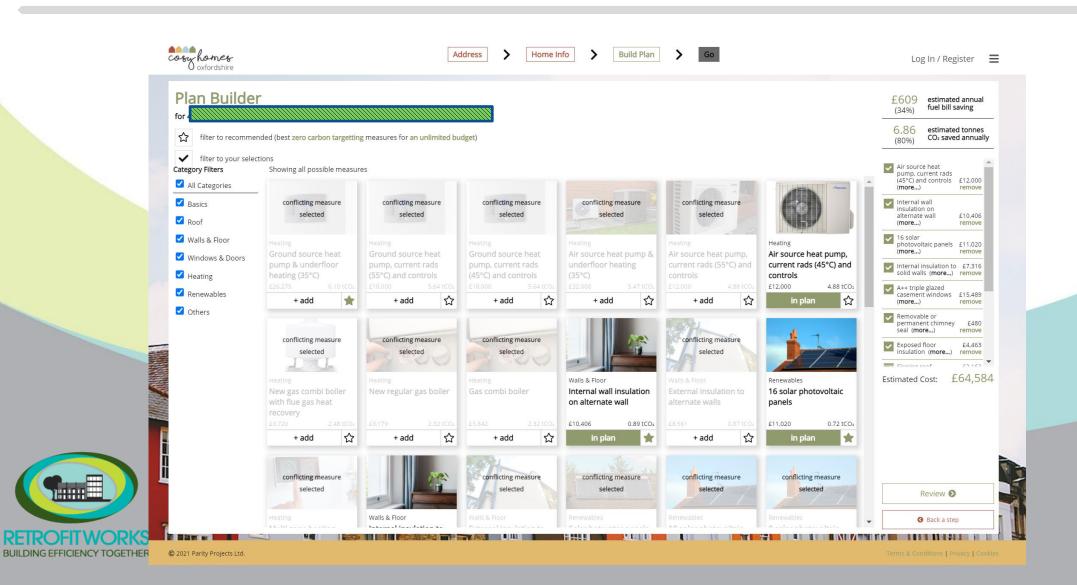




Smart Marketing (2)



Smart Marketing (2)



The Whole House Plan



Animation

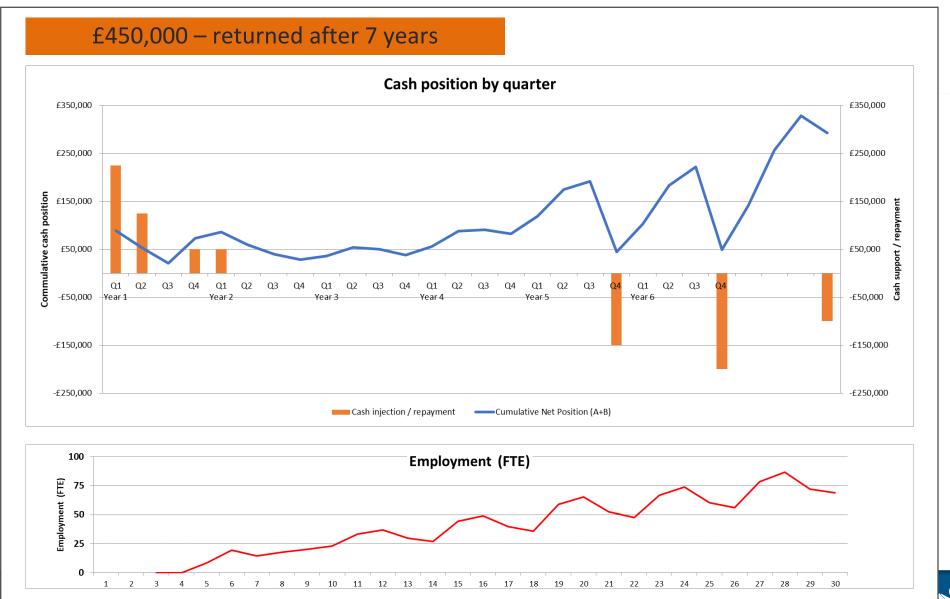


The business case





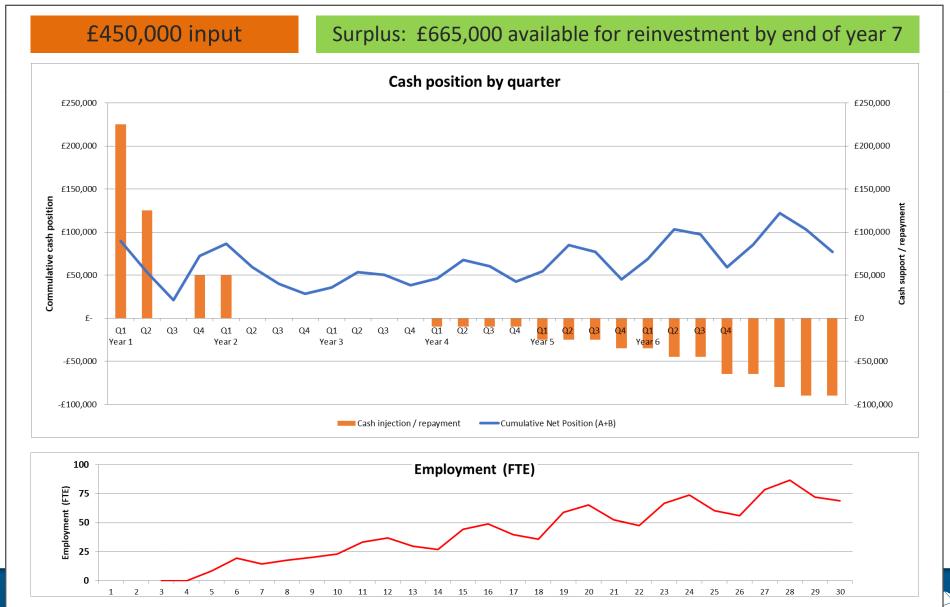
Working capital – full repayment







Working capital – grant at start





Conclusions

- Customers
 - Don't know what they want
 - Don't want to deal with contractors
 - Want things put right if they are not
- Contractors have no idea what to how, how to sell it, how to install it.
- Access to finance
- Nimble, responsive, local supply chain
- Community based advocates at the heart
- Digital toolbox



Thank you

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