

Wates Retrofit Experience



Wates Living Space

- Part of Wates Group, one of the leading construction and property services companies in the UK
- Delivering asset management services to over 500,000 homes in partnership with 50 HP's
- Supporting Clients with their decarbonisation and sustainability strategies
 - key focus on reaching EPC C across their portfolio by 2030 (1.6m homes across England)
 - multiple areas including strategy, supporting bid for Govt funding (SHDF), through to delivery.

2,886

£52m 17 Ext Funding

20 Retrofit Projects to PAS 2035

Delivering energy efficiency measures to over 2,800 homes **Total Project Value** of £52m

3 x Local Authority Delivery (LAD)

4 x Social Housing Demonstrator Fund (SHDF)

9 x Social Housing Decarbonisation Fund Wave 1





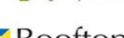


















Northampton Partnership Homes: SHDF £13m

Funding:

Measures:

Include:

Partners:

Value:





Project Information

SHDF Demonstrator Fund, SHDF Wave 1 – neg Fusion21 F/W

£13m (£4m SHDF Demo / £9m SHDF Wave 1)

Properties: 80 (SHDF Demonstrator), 250 (SHDF Wave 1)

EWI, Windows, Doors, Loft Insulation, Solar PV, ASHP & Sensors

Outputs - EPC Band Improvement from D to B/C

- Reduced Space Heating Demand by 73% (208 kWh/m2 to 56)

Constructive Thinking (Retrofit Designers)

Energy Specifics (Retrofit Co-ordinators & Assessors)





2

Understanding and Embracing PAS 2035













Increase the sectors knowledge and understanding of PAS 2035

Acceptance a Compliance Framework is required.

necessarily complex

PAS 2035 is

Partner with companies competent in PAS 2035.

Recognise the Value, not focus on initial cost

The Retrofit Academy
Training

Unintended consequences following poor design

Do not underestimate the amount of work and cost involved

New roles – RA/RC/RD etc

"PAS is your friend!"

PAS 2035 is fundamental culture shift to how projects are delivered

Data, Data, Data....Challenge & Opportunity













Inaccurate and unreliable data

Fragmented systems

Sampled Datasets

Data Critical to making smart decisions

Move away from EPCs to RA

EPC C or D? 10k

Rich source of data becoming available through PAS 2035 process

Survey / design / pictures

How are we going to manage this data?

How will we integrate to make smart decisions?

Link to Golden Thread – BIM, Asset Tagging.

Future asset management preventative

Data will provide the roadmap to Zero Carbon

Maximising funding to support strategy













Awareness and access to funding

BEIS – SHDF LA Delivery Sustainable Warmth Energy Co – ECO4 Strategy led decisions...NOT funding led

Funding should complement programmes / strategy and reduce costs.

Consideration of Client budget / match funding

SHDF Funding contributions - Wave 2 - 50% min

Likely to be over!

Bid ready?

- SHRA support
- Strategy
- Data led decision
- Surveys / Design

"Shelf Ready"

Collaboration required at Bid Stage - SHDF

- Client
- Contractors
- Consultants

Maximise funding opportunities to delivery your strategic objectives

Procurement and Delivery Planning





Consideration of Procurement / Delivery Routes

Fragmented – sustain / assets / finance / procure

Wave 1 projects still being procured



What services do you need?

- Data Analysts
- Assessors
- Co-ordinators
- Designers
- Contractors

In-house / Ext?



How will you access those services?

- Existing
 Contracts
- Frameworks
- One stop shop v Elemental



Supply Chain Capacity?

Engage the supply chain to understand capacity ahead of designing large programmes / procurement



Collaboration / engagement is key

- Internal
- External

Move away from silos.

Clear procurement & delivery strategy incorporating skills / capacity

Fabric 1st - Integration with Asset Management













Holistic approach
of assets /
communities not in isolation.

Decarb / Fire /
Disrepair / Fuel
Poverty etc
healthy homes &
communities

Maximise efficiencies within existing investment programmes

W&D, Roofs etc

Min Disruption for residents

Retrofit Plans – path to Zero
Carbon

Allows long-term sequential measures to suit budgets, programmes

Consideration for future proofing of homes

e.g. Heat Pump Ready

Strengthening Roofs for PV etc Collaboration with other contractor partners is key.

Planned, Heating, Repairs etc.

Opportunity to create efficiencies through integration with asset management

Importance of Resident Engagement



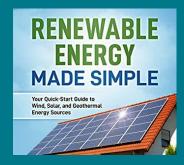












Residents – the champions for retrofit

Front and centre of conversation

Residents are often unaware, apprehensive or reluctant to change

= access / uptake Issues

Focus on motivating factors

e.g. bill reduction, visual e.g. Thermal Imaging.

Power of positive stories / experiences

Bad news travels fast however! Requires energy literate customer facing staff

Carbon Literacy
Trust – RLO's

Demystify the Technology

Tailored Comms to meet diverse resident needs

Residents need to be at the centre of our thinking at all stages

Project Risks to be managed













Planning Issues

Early Consultation with Planning Authorities — particularly conservation areas

Electrical or telecoms cables, gas pipes.

Consideration at design phase

Early engagement with DNO's.

Ecological Considerations

Undertaking ecology surveys where possibility of bats / nesting birds

Economic uncertainty / Inflation

Bulk orders at favourable rates

Storage of materials

Supply Chain Capacity

Engagement of supply chain

Pipeline visibility and capacity building

Risks can be mitigated through early identification / engagement

Retrofit Capacity and Skills Gap



The Accredited SUPPLY CHAIN PROFESSIONAL

PAS 2030 ONLINE AWARENESS TRAINING







Mandatory Accreditations

- Assessors
- Co-ordinators
- Designers
- Installers

Accreditation Support

Supporting supply chain transition – SME's – local economy

Investment Confidence

£3.8bn / 10yrs committed in a SHDF

£100bn for SH to reach Net Zero

National Retrofit Employers Group

- Partnerships
- Pipeline
- Gaps
- Training

Education Partnerships

Strategic approach – FFP.

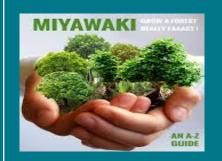
Training pathways and employer links.

It's time to skill up and scale up for Retrofit

Wider Environmental Impact













Embodied Carbon?

Industry focus on meeting EPC C / taking a whole life approach.

Procurement?

Miyawaki Forest

Supporting biodiversity, air quality.

Health and wellbeing

Wates Innovation Network

Connects
customers to
market-leading
sustainable
technologies and
services.

Supply Chain Sustainability School

Develop skills and knowledge in industry to deliver a sustainable future.

Green Schools Project

Raising awareness of climate change

Inspires them to lead projects in their schools

Requirement to consider the wider sustainability impact



Thank you