FUSION

Welcome to the Fusion21
Decarb in Focus —
Forum SHDF Wave 3

19 June 2024



Fusion21 - Introduction

- Ben Nixon, Senior Associate Director, Baily Garner
- Justyna Clarke, Retrofit Programme Manager, Vivid Homes
- Ian Cartledge, Business Development Manager, E.On Energy Solutions
- Paul Towers, Framework Manager, Fusion21
- Andrew Gray, Member Relations Manager, Fusion21



Agenda

- Introduction Andrew Gray
- SHDF Wave 3 What's different Ben Nixon
- Challenges and Solutions

Supplier perspective – Ian Cartledge Member perspective – Justyna Clarke

- Procurement Approaches Ben Nixon
- Q&A



Fusion21 Decarbonisation — Our Journey

- Retrofit 2011-2015 £30m
- Retrofit 2015-2019 £50m
- Energy Efficiency 2020-2024 £123m
- Heating and Renewables 2020-2024 £13m
- Consultants (Lot 11) 2021-2025 £7m
- Decarbonisation 2022-2026 £450M*



Fusion21 - Current Offer

- Consultants Framework Lot 11 specialist support
- Decarbonisation (Multi measure, PAS 2035, Full turnkey)
- Building Improvement Works Single measure (Insulation)
- Heating, Renewables & Electricals

 Single measure
 (Heat Pumps, Solar PV, LED and EVC)



Key statistics - Fusion21 Decarbonisation Framework

138
call-off
contracts

£450m

Estimated value

21
Suppliers

95
Members using the Framework



The Social Housing Decarbonisation Fund (SHDF) will upgrade a significant amount of the social housing stock currently below Energy Performance Certificate (EPC) band C up to that standard. It will support the installation of energy performance measures in social homes in England and facilitate the subsequent widespread adoption of decarbonised heating systems and help:

- deliver warm, energy efficient homes
- reduce carbon emissions
- tackle fuel poverty
- support green jobs
- develop the retrofit sector
- improve the comfort, health and well-being of social housing tenants
- Wave 3 £1.2bn





INTRODUCTION



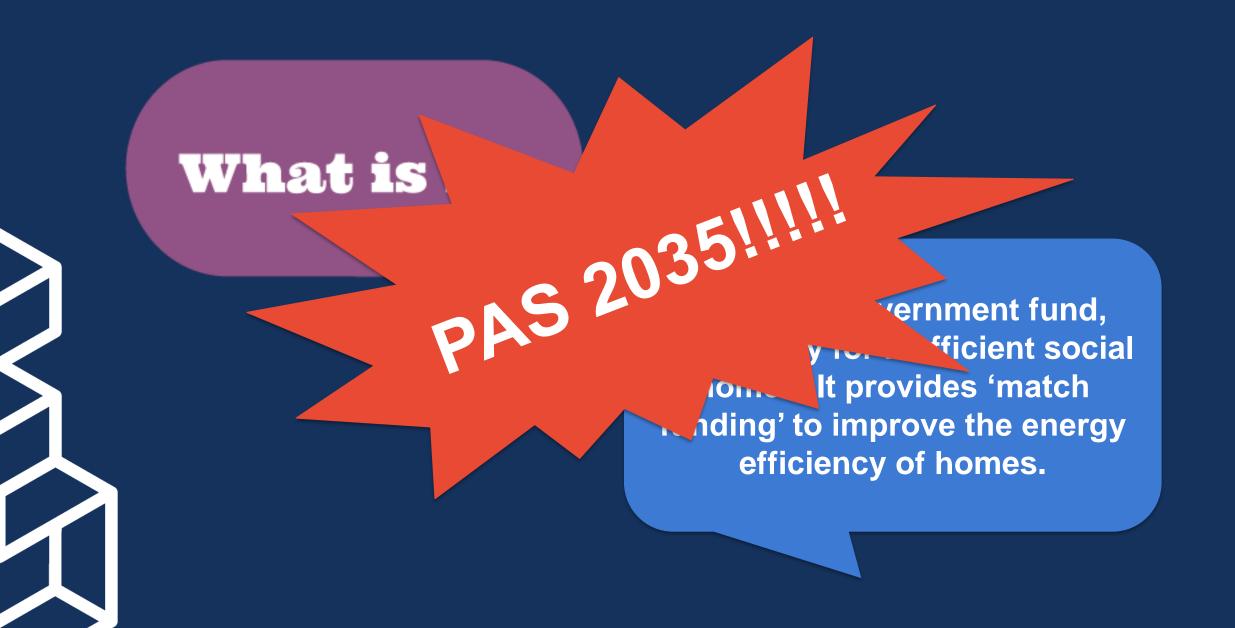
Ben Nixon BSc (Hons) MCIOB MRICS

- Chartered Construction Manager
- Chartered Building Surveyor
- 17 Years experience in Social Housing
- PAS 2035 Retrofit Coordinator
- PAS 2035 Retrofit Assessor

- Provided 'Technical Assistance Function' for SHRA
- Involved in Enerphit projects in addition to SHDF projects (from 'Demonstrator' onwards)
- Helped to pioneer a 'Guardian' style approach to turnkey projects
- To date, has worked on over £100m worth of funded retrofit works
- Various articles published, inclusive of RICS BEJ



SOCIAL HOUSING DECARBONISATION FUND



Wave 2 Wave 3 Single fund Challenge fund and Strategic partnership EPC 'C' & 90kWh M² Only requires EPC 'C' PA **Funding varies by type** Blanket £7.5k matched per home Spend can be averaged out Spend is against the over bid home - 2 year programme 3 year programme

SHDF WAVE 3 (CONTINUED)

Wave 2 Wave 3 £30m for organisations **Applications** considered together <1000 homes All match funded Non-matched LCH for 10% (£20k) EPC 'C' homes 10% EPC 'C' homes 10% (infill) (LCH/infill) 50% non-social (mixed 70% non-social (mixed tenure) tenure) 100 homes minimum 100 homes minimum (where Green Funding Solutions

SHDF Lessons
Learned –
preparing for
SHDF Wave 3

e.on



A trusted partner

In 2020, Green Funding Solutions was launched to support local authorities with the delivery of the Green Homes Grants by providing an end-to-end, full turnkey solution.

Our service has helped to provide local authorities and housing providers with skilled resource and expertise in writing funding applications and compliantly delivering high quality installations.

Supporting over 40 SHDF projects E.ON is one of the market leaders. Learning from our valuable experience, our retrofit solutions have been designed and developed to successfully deliver on all the funding requirements.







Our Full Turnkey Solution



α₀



Stock Analysis

A strong bid starts with robust data analysis. E.ON will assess your stock data, identifying suitable homes for retrofitting. As part of this process, E.ON will seek to conduct property assessments to ensuring the accuracy of information being used.

Property Modelling

E.ON will model your properties, ensuring proposed improvements achieve all funding requirements

Bid Writing Support

Our experienced team of Bid Writers have a proven track record of success when it comes to Funding bids. E.ON will take away the stress and resource requirements, pulling together a strong submission on your behalf.

PAS 2035 services

E.ON provide all your PAS 2035 requirements including Retrofit Design, Retrofit Assessments and Retrofit Coordination, to ensure that everything is fully compliant with industry standards.



Resident Engagement

Our Customer Delivery Team will develop a bespoke engagement programme to keep residents engaged and fully informed throughout the entire project.



Project management

E.ON's award-winning retrofit delivery team offer a fully managed service that takes care of every component for you, providing confidence that quality will be delivered.



Accredited supply chain

E.ON have trusted, pre-procured, fully accredited local and national supply chain partners to deliver quality retrofit works at scale.



Project Reporting & Compliance

Our processes, systems and dedicated teams manage all compliance requirements and align our reporting to DESNZ reports and KPI's.

Data is Key

- Don't rely on historic, out of date, or inaccurate property data.
- Start your data analysis as early as possible.
- Identify the gaps and weaknesses in your stock data.
- Use time wisely, cleanse your data, undertake sample EPC's, Retrofit Assessments and Technical Surveys at presubmission stage.
- Understand your targets, be clear about what you are setting out to achieve through SHDF.
- Make sure you have a backup list, it will be needed.
- Engage early with Planning, Building Control, DNO's, etc.
- Understand what information you will need to provide e.g. asbestos surveys







Resident Engagement

In some projects throughout the sector it's been known for as many as 40% of residents to have refused works when offered retrofit solutions or improvements. Many other residents will drop out mid project due to property suitability.

- Strong, effective communication is vital.
- Residents need to understand:
 - what is happening
 - how it's happening
 - why it's happening
 - when it's happening
- Engage as early as possible with residents
- Make resident engagement part of BAU
- Get residents involved job opportunities, social value
- Use every communication channel possible
- Face to face, resident engagement days are a great



Top 5 Takeaways

- 1) Don't rely on inaccurate property data
- 2) Conduct pre-bid surveys and assessments
- 3) Select your Retrofit Delivery Partner early
- 4) Engage comprehensively with tenants
- 5) Integrate SHDF with planned capital works programmes









Farnborough Project: lessons learned

No regrets EPC C/net zero emissions pathway

1.Insulate homes to get to EPC C: 2022 to 2030

Reduce heat demand/resident heat costs to allow for low carbon heating upgrades later

Heat pump upgrade pilot from 2025 (prioritise off gas solid fuel/oil heating)

Improve ventilation

Include homes already at EPC C that need EWI (area-based delivery)

2. Low carbon heating delivery: 2030 onwards

Large scale deployment of low carbon heating systems to individual houses

Large scale deployment of low carbon heat networks

- 3. Large scale solar PV delivery to decarbonise electricity: 2040-2050
- 4. Offsetting of remaining carbon from 2050

Electri city grid decarb onisati on

Farnborough project: SHDF Wave 2.1

- 400 poor performing, houses and low-rise, system build flats in Farnborough
- External wall insulation, loft insulation and new windows
- Improvements to the visual appearance of the estate



Procurement approach









SHDF Wave 2.1 was announced when no internal sustainability team was present

Decision was made to procure turn-key solution

Additionally, Employer's Agent was appointed

Procurement approach

Using Fusion 21, E.ON was directly appointed as a turn-key solution provider:

- ✓ Bid writing
- ✓ PAS2035 compliance (assessments, design and coordination to Trust Mark Lodgment)
- ✓ Resident engagement strategy
- ✓ External Wall Insulation delivery
- ✓ Monthly reporting to DESNZ

The same approach was used to appoint Baily Garner to deliver:

- ✓ PAS2035 Audit and Project Support Services
- ✓ Contract Administrator (Employers Agent)
- ✓ CDM Principal Designer

Journey

- ➤ Before SHDF Wave 3 was officially announced ~40 Retrofit Assessments were carried out in Farnborough to confirm eligibility
- ➤Internal team started forming
- > Leaseholders were identified
- ➤ Engagement with Social Housing Retrofit Accelerator now RISE
- ➤ Bid writing by E.ON
- Continue work on Retrofit Assessments
- > Resident engagement commenced
- ➤ Site office set up: additional resident engagement tool
- ➤ Asbestos surveys commenced

Lessons learned

What worked

Wholistic approach in hands of one contractor

Special events and comms to the residents

Reporting to DESNZ

Support in PAS2035 compliance by the Employer's Agent

Technical Working Group to discuss various technical

solutions

Project Execution Plan

Extra layer of scrutiny on delivery from Employer's Agent

What we would reconsider

Turn-key: you still need a team (asset management

tasks)

Residents often prefer to talk to their landlord rather

than a contractor

Long "distance" between a client and actual on-site

team

Asbestos: should also be included in the contract to

speed up delivery



PROCUREMENT APPROACHES



Why we have Contracts

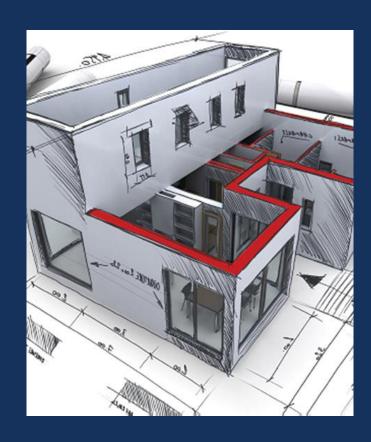
Procurement Strategy



Considering the Procurement Route

Funding Requirements

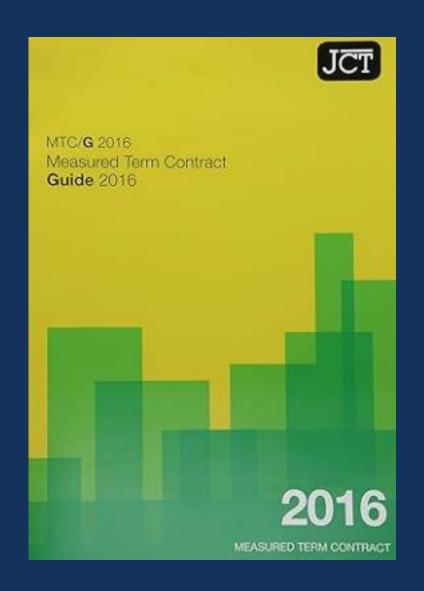
PARTNERING ARRANGEMENTS / D&B

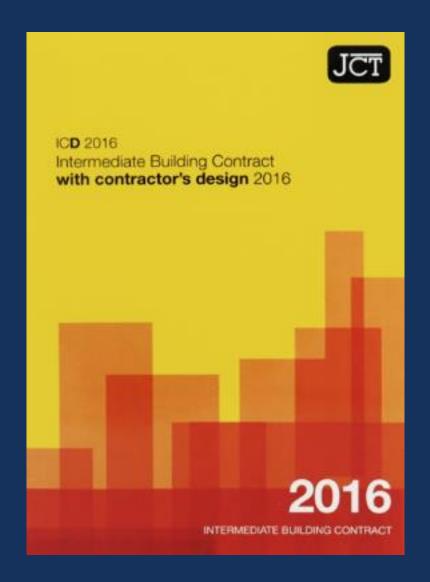






TRADITIONAL FORMS





THE PAS ROLES

Turnkey Consultant **Most straightforward (on Paper) Most Control** Most potential for conflict **Most conflict management** Still advise contract RC can cover contract management management Most cohesion between Most disconnect between functions functions Likely to be more costly Likely to be a cheaper option One (or no) procurement Potential multiple exercises exercise

THANK YOU

www.fusion21.co.uk 0845 308 2321 info@fusion21.co.uk

