## **SESSION 2: RETROFIT - FROM DOMESTIC TO THE PUBLIC ESTATE**

Tag us in your photos on LinkedIn and Twitter!





@MidsNetZeroHub in Midlands Net Zero Hub

# DAVID ARKLE AMBER VALLEY BOROUGH COUNCIL

## Phase 2 Retrofit Reflections from Amber Valley

David Arkle
Head of Housing and Growth







### **Overview**

- Share with you what we have achieved with our partners, our approach, some of the challenges and reflections
- Any success is shared with Westville, Futures Housing Group, Marches Energy Agency and the residents that have stoically put up with all the disruption, we hope that they think it has been worth it
- Thanks to all at MNZH who have been reassuring and supportive once we realised that they are on our side
- Thanks to Derbyshire Dales who through their 1A experience gave us the confidence to give 1B a go
- Thanks to the Housing team at AVBC that have taken all the challenges in good spirits (especially the reporting)

## **Phase 2 Delivery Summary**

- 34 EWI (Ironville) to complete a mixed tenure scheme started within phase 1B (£440k)
- 47 PV on social housing electrically heated bungalows
- 37 standalone lofts
- 63 EWI (Ripley) in a combination of social and owner occupied properties
- £1,298,947(ish) GHG LAD 2 capital claim against an allocation of £720K
- AVBC subsidy £35K (ish) to cover surplus cost over the £10k limit
- 83 private homes
- 88 social homes

## Ironville (1B and 2)



## Ripley (Phases 1B, 2 and 3)



## **Solar PV**



### **AVBC** actions to support success

- Recruitment of a dedicated role to focus on delivery, get sign ups, coordinate reporting and do the trouble shooting and sign offs
- Got to grips with the reporting and looked to make the most of the financial flexibility
- Actively promoted loft and cavity offer through Marches Energy Agency
- Offered a range of repayment terms for private landlords to encourage them to participate
- Worked extensively with Future Housing Group to deliver a multi-tenure scheme that helped to generate momentum and support location of compounds
- Lovely spreadsheets!!
- Planned ahead and understood lead times
- Not just focused on social housing

### What we have done ok

- Kept <u>close control of the budget</u> at all times including averages
- We have been flexible and pragmatic including switching allocation of properties between schemes where necessary to optimise average spends
- We are ahead of the curve to fully utilise our phase 3 LAD allocation with over £600k of GHG signed up and under way
- Offered EWI in an equitable way to all residents in a defined geographical area
- Used our Housing renewal policy (1/3 of clients had a long term health condition) to provide additional funding
- Provided some life changing whole house improvements
- Achieved 95% sign up in Ripley (101 properties)
- 70% sign up in Ironville (95 properties)
- Used the stock condition database to identify properties

### Our approach to partnership

- From the outset we understood that an area scheme was likely to be the most successful approach
- Entered the contract in the spirit of partnership and aiming for win, win, wins
- Identified respective strengths including an early recognition of the assurance processes that meant we did not need to micro manage delivery on site
- Understood what MNZH needed from us (the rules)
- Planning ahead through good project management and recognition of the lead times
- Supportive intervention when it was required resolving issues in a spirit of partnership
- Working with Futures and their chosen contractor on LAD3

### What we could be doing better

- We have limited capacity for effective evaluation, consultation and follow up with beneficiaries
- Need more resource but only at certain times
- Technical knowledge about power supplies and other related processes that will impact on delivery
- Struggled with the different approaches to reporting (1B lag especially) especially supporting a staff handover January/February 2022
- Need reassurance all new and no idea how our delivery compares with what others are doing
- Struggling to find suitable and eligible HUG1 properties
- Not fully grasped the carbon savings elements of the programme

## Looking ahead

- We have done well (apparently) but have only provided EWI for 140 properties despite all our efforts
- How can we make schemes work in areas of higher proportion of private rented properties?
- How can we more efficiently identify areas with suitable properties and eligible owners/occupiers?
- How do we avoid falling into the easy wins trap?
- How do we find practical solutions for our many rows of terraces with gennels/alleyways?
- How can we deliver area based schemes with the £10,000 private sector average cap when low income measures are now hard to find?
- How can we sustain skills/capacity/knowledge to deliver?
- We are signing up households now but don't know if there is any funding post March 2023

### Messages to Policy Makers

- Improvements to properties on one small estate of just over 100 houses are being funded by multiple sources – too complex
- Policy to support making older housing stock more energy efficient has to be more joined up (area renewal?) with adequate lead times to aid good planning
- EPC maybe the best thing we have, but they cannot be fully relied on for policy making because of historical lack of robustness
- Many of our most vulnerable residents are missing out especially in higher areas of private rented homes
- Have a clear strategy to how retrofit is going to be delivered at scale, decide
  how local authorities are going to fit into that strategy and give us time to build
  effective housing renewal approaches in the areas that need intervention
- Identify a policy and stick with it and give us enough time to build up a
  programme that means we can target interventions at those that need it and not
  just the properties that are easiest to deliver

## Thank you for listening and hopefully staying awake

David.arkle@ambervalley.gov.uk 01773 841334



# ARNOUT ANDREWS RETROFIT ACADEMY











### **OUR MISSION**

by 2030 to transform the UK's housing stock through high-quality, safe retrofit.











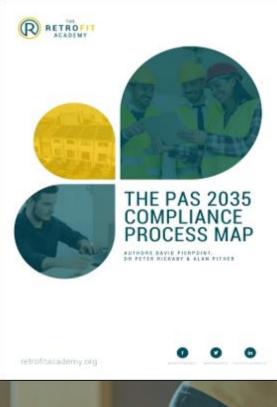
### s Toolkit

PAS 2035:2019 Incorporating Corrigendum No.1

Retrofitting dwellings for improved energy efficiency – Specification and guidance



例的 Department for Business, Energy & Inclustrial Strategy bsi.



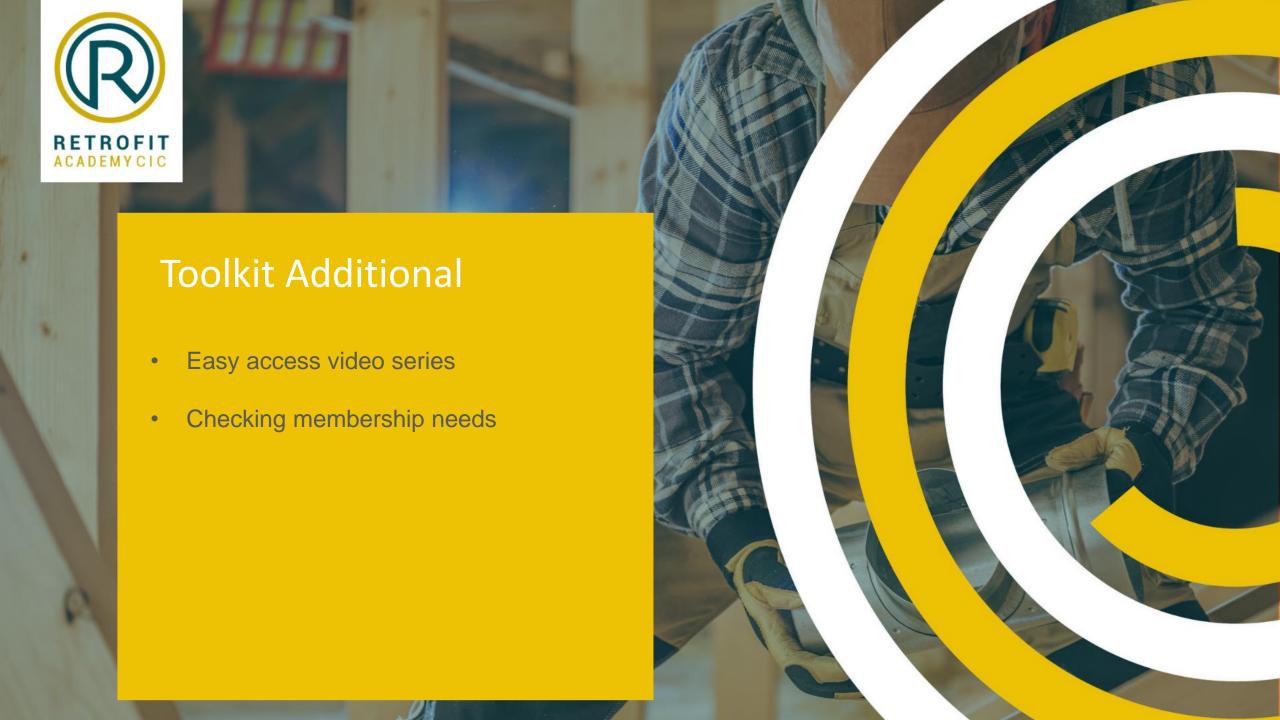


Delivery Area	Touchpoints .	Section No.
PAS2035	Check the hallowing are included in contracts:  1. Everything required in PAS 2035	1.1
	Claimenta/filems of TRA (The Rehalf Academy) process maps     The organization [and/ar person] that fills each of the FAS sales	1.2
Kişk Park	Check it has been determined before quantuments take place	2
Outcomes	Check they have been identified at the start.  Neview them other the assessments.  Review them again other Improvement Options Evaluation and remain design.  In transfer with associated cash.	3.1 3.2 3.3
Tenant/Homeowner	How in/ore the measure[s] and specification(s) determined?  Check for evidence that occupants can use the measure[s] installed.	4.1
Assessments	Request and review in insertent protoms:  Specifically look at any lasses concerning ventilation, condensation, damp and mould  Establish thoris and/or review protein	5.1 5.2 5.3
Design	is there are IDE Simprovertient Option Evaluation) – selection of appropriate measures, and an MTIP (Medium Term Improvement Plon) in place.  Challenge why option A is selected instead of IIII (i.e., ASHP natioal of walls – also 100mm vs 150mm).  Check the design detail on a selection of key junctional.	6.1 6.2 6.3
branalt	Check invisites are Trusmonk/MCS certified for the measures being installed.  Who is responsible for an electrophy consumers?  How is an also work shacked?  Check the design details allign with what takes place on site!	7.1 7.2 7.3 7.4
Commissioning/ Handover/ Measurement/ Survey/ Monitoring	Who looks attractions the finished job? Who looks attraction the commissioning/hordoner documents? What determine a sociosalal result (design and implement a monitoring strategy to answer this question).	8:1 8:2 8:3

elivery Area	Touchpoints	Section No.
	Check the following are included in contracts:	1.1
PAS2035	1. Everything required in PAS 2035	
	2. Elements/items of TRA (The Retrofit Academy) process maps	1.2
	3. The organization [and/or person] that fills each of the PAS roles	1.3
Risk Path	Check it has been determined before assessments take place	2
Outcomes	Check they have been identified at the start	
	Review them after the assessments	3.1
		3.2
	Review them again after <b>Improvement Options Evaluation</b> and retrofit design (in tandem with associated costs)	3.3
nt/Homeowner	How is/are the measure[s] and specification[s] determined?	4.1
	Check for evidence that occupants can use the measure[s] installed	4.2
sessements	Request and review an assessment proforma	5.1
	Specifically look at any issues concerning ventilation, condensation,	5.2
	damp and mould	5.3
	Establish checks and/or review process	
Design	Is there an IOE (Improvement Option Evaluation) – <b>selection of appropriate measures</b> , and an MTIP (Medium Term Improvement Plan) in place	6.1
	Challenge why option A is selected instead of B! (I.e. ASHP instead of walls – also	6.2
	100mm vs 150mm)	6.3
	Check the design detail on a selection of key junctions!	3.5
Install	Check installers are Trustmark/MCS certified for the measures being installed	7.1
	Who is responsible for on-site quality aassurance?	7.2
	How is on-site work checked?	7.3
	Check the design details align with what takes place on site!	7.4
nmissioning/ landover/ assurement/ by/ Monitoring	Who looks at/reviews the finished job?	8.1
	Who looks at/reviews the commissioning/handover documents?	8.2
	What determines a successful result (design and implement a monitoring strategy	8.3
	to answer this question)	0.3

## Touchpoints - list

- Contract: Roles and compliance in contracts.
- Assessment: Ventilation, condensation, damp and mould
- Selection of measures (and spec)
- Design: Check construction details.
- Install: Check details are being built
- Check occupier can use what they have had





### **Enhanced Membership**

- **Training** 
  - Qualifications
  - CPD type 'access' sessions
  - Organisational progress (Fit for Retrofit)
- Consultancy
  - Support/ guidance to help organisations with project delivery



## NEW FULLY FUNDED RETROFIT TRAINING



#### WHAT'S ON OFFER?

REVIEW THE MENU OF SUPPORT PACKAGES, TO DETERMINE YOUR REQUIREMENTS:



A regulated qualification which provides a comprehensive and easy-to-follow introduction to whole-house retrofit. Learners will gain an understanding of what domestic retrofit is, what it is supposed to achieve, what you need to know when working in the industry, and what to look out for when installing energy efficiency measures in homes.



#### **LEVEL 4 AWARD** IN DOMESTIC RETROFIT **ASSESSMENT**

This course leads to the Level 4 Award in Domestic Retrofit Assessment, which enables learners to become an accredited Retrofit Assessor. It is a blended approach, meaning the knowledge content is delivered through eLearning and a half-day Bootcamp. In addition, there is a virtual assessment of a property. followed by the completion of a report based on a Retrofit Academy assessment report template.





#### LEVEL 3 AWARD IN DOMESTIC RETROFIT ADVICE

The AIM Qualification Level 3 Award in Domestic Retrofit Advice gives learners the knowledge, skills, and confidence to provide retrofit advice. The course is easy to follow and gives you a comprehensive introduction to whole house retrofit. It is ideal for people working in customer-facing roles in social housing or fuel poverty schemes.



#### LEVEL 5 DIPLOMA IN RETROFIT COORDINATION AND RISK MANAGEMENT

The AIM Qualification Level 5 Diploma in Retrofit Coordination & Risk Management gives learners the knowledge and skills needed to become a Retrofit Coordinator; a crucial new role required by the PAS 2035 standards. It is ideal for built environment professionals looking for a career managing retrofit projects and prepares learners to undertake all activities required of a Retrofit Coordinator managing retrofit projects.



## ENHANCED TRAINING FOR HOUSING TEAMS



#### RETROFIT ESSENTIALS

A one-day classroom-based course providing a no-nonsense introduction to retrofit, giving you and your team a brief overview of retrofit requirements.



#### **RETROFIT READY BOOTCAMP**

Retrofit Ready Bootcamps are designed for people wanting to understand the core technical principles of good retrofit but without the need to gain a qualification. The course introduces PAS 2035, the key principles of whole house retrofit, including improvements to the building fabric, services, ventilation and



#### FIT FOR RETROFIT ORGANISATIONAL **READINESS PROGRAMME**

Designed to support social housing providers to become ready to deliver domestic retrofit programmes successfully. Modules include Leadership, Organisational Skills Baselining, Stock Performance and Tenant Engagement.



#### FIT FOR RETROFIT CONSULTANCY SERVICE

Consultancy services providing bespoke technical support to your organisation's retrofit projects.



#### PAS 2035 RESOURCING

A resourcing solution to connect you with PAS 2035 professionals to support your retrofit projects as employees or consultants.

APPLICATIONS MUST BE SUBMITTED BY NO LATER THAN 21st OCTOBER 2022



# ALEX PEARSON MIDLANDS NET ZERO HUB



## Supporting the Energy Transition

Alex Pearson – Net Zero Project Manager

https://www.midlandsnetzerohub.co.uk/



- 1. Key contacts & Partnership working
- 2. Data
- 3. Project Origination
- 4. The application process
- 5. Outcomes
- 6. An easier way via the MNZH PSDS team.





### Key contacts:

- Facilities / Estates team
- Finance team Contracts & Utilities
- Sustainability / Climate change officers





### Facilities / Estates team

- Good knowledge of buildings age and type of equipment installed.
- Maintenance schedules what can fit into existing programmes?
- Access to drawings/schematics & costings.

#### Finance team – Contracts & Utilities

• Energy use data, MPAN numbers, running costs

### **Sustainability / Climate change officers**

• Ensuring organisational buy in, carbon reporting and project guidance.





#### Data

Use of information to produce a list, and initial kWh & carbon savings Cross reference the list with age of equipment and planned maintenance schedule.





**Project Origination** 

Shortlisting and prioritise in terms of financial and carbon savings.

Sharing the shortlist with the wider team at the council and matching with the recommendations of the 'Heat Decarbonisation Plan'

Ensuring that the project meets the 'lifetime carbon cost' hurdle rate.

Collaboration and 'picking a winner'





The application process.

The application form requires a great deal of detail such as

Heat loss calculations

Project costings

Timelines.

The only way to have these figures ready is collaboration early on in the process.





**Outcomes:** 

A successful grant application:

**Redditch Town Hall** 

Cost £1,175,721 (grant funded)

Annual carbon savings 150 tonnes

Financial savings £14,189 annually





An easier way - via the MNZH PSDS team!

- Building data analysis
- Use of tools such as 'Ongen' & 'On efficiency'
- Help & support through a dedicated team.





## **SESSION 2: RETROFIT - FROM DOMESTIC TO THE PUBLIC ESTATE**

Tag us in your photos on LinkedIn and Twitter!





@MidsNetZeroHub in Midlands Net Zero Hub