



hello

# Hard to Treat Retrofit

Lessons learned in the West of England

**Dr Benjamin Nweke**

[www.curo-group.co.uk](http://www.curo-group.co.uk)

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# Agenda

- Introduction
- Project Overview
- Objectives of the Retrofit Project
- Successes
- Challenges Encountered
- Lessons Learned
- Environmental and Sustainability Outcomes
- Future Recommendations
- Conclusion
- Q&A



# Introduction

- Why is Retrofit Necessary?
    1. Aging Infrastructure
    2. Energy Inefficiency
    3. Occupant Comfort
    4. Regulatory Compliance
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# Project Overview

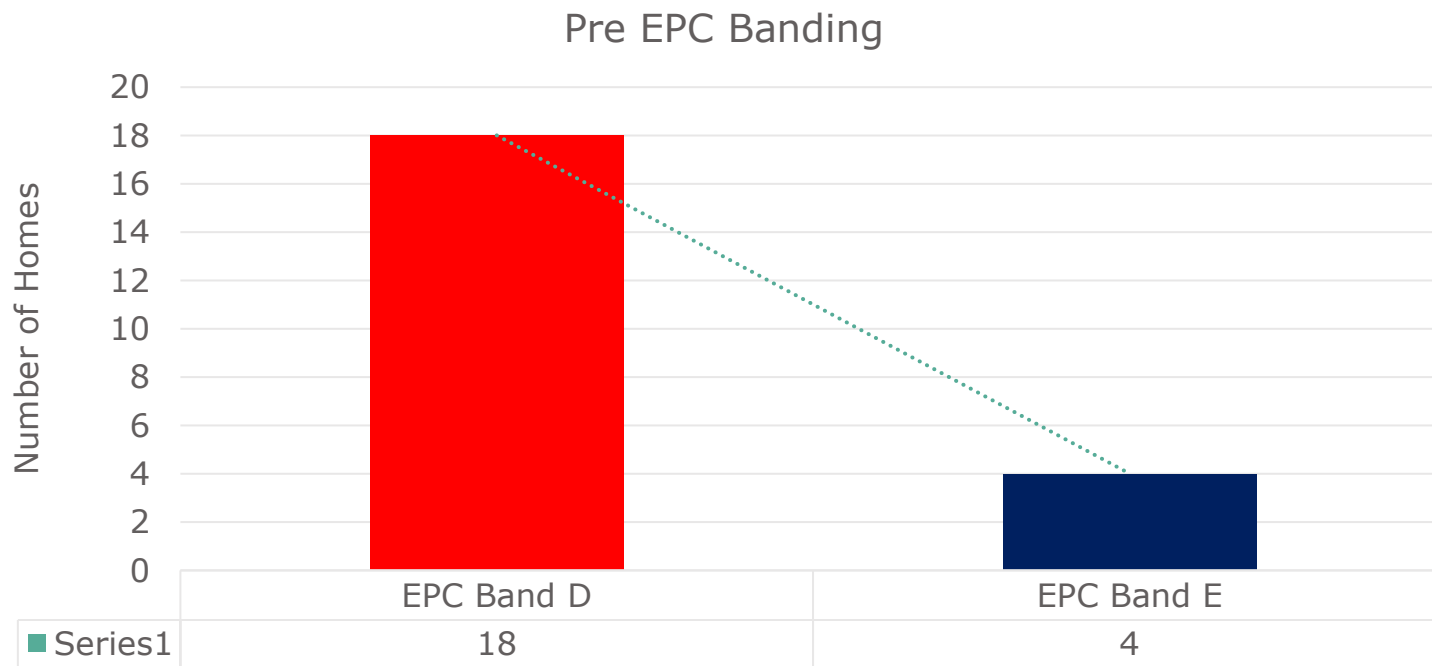
- 22 off gas grid bungalows in Hillcrest and Fairy Hill
  - Reduce Carbon Emissions
  - £495,000 WECA Funding and £106,300 Curo Funding
  - Contractor: Low Carbon Exchange
  - Initial Duration: 8 months
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# Objectives of the Retrofit Project

- Cost Savings
- Enhanced Resident Experience
- Compliance with Environmental Standards
- Energy Security and Independence



# Pre EPC



# Types of Measures

Innovative measure	Quantity
Roof Alterations	13
Loft insulation	22
Roof Replacement	9
iBoost	22
Dimplex Quantum Storage Heaters	8
External Wall Insulation	17
Ventilation Systems	22
Replacement Windows	22
Replacement Doors	22
Rubble Removal	22
Cavity Extraction	22
Cavity Fill	22
Solar PV	22

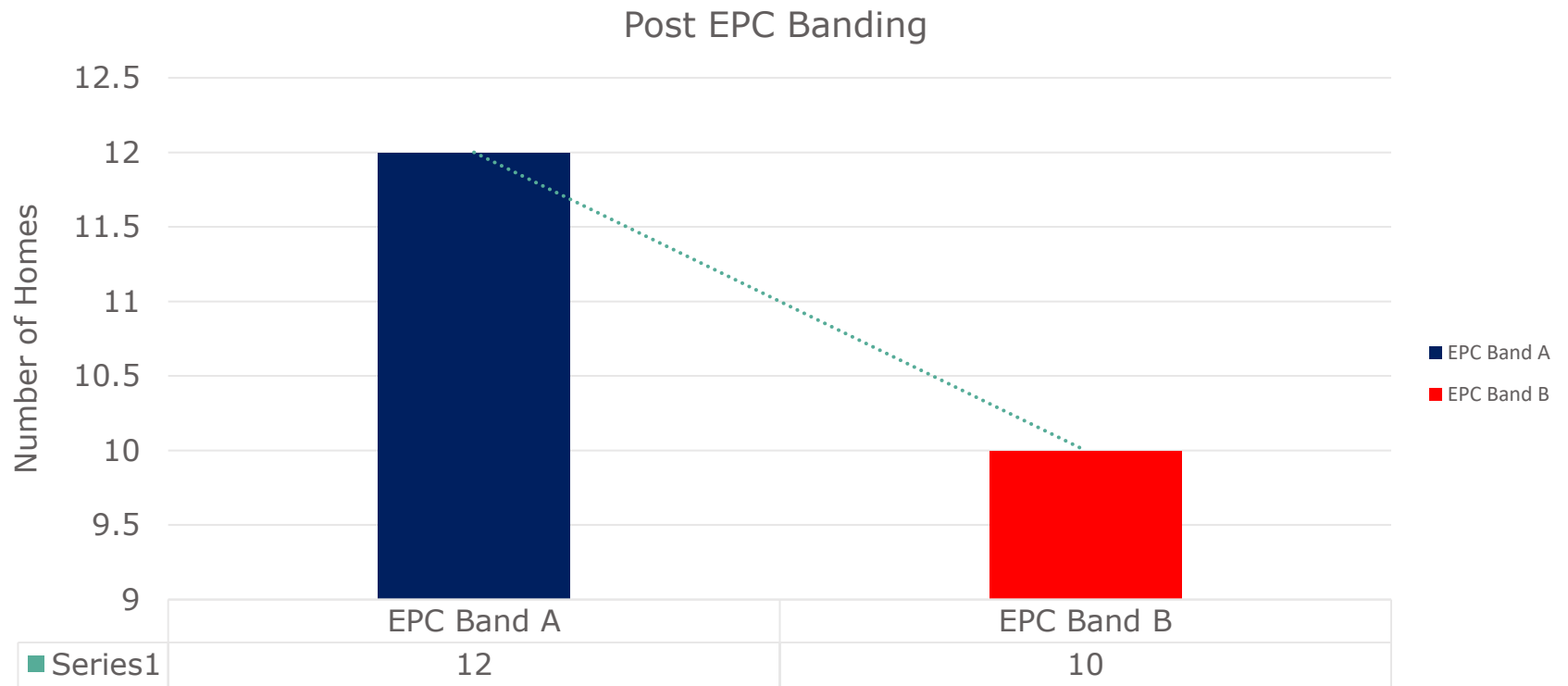


# Successes

- Informative Resident Engagement
- Innovations in methods (iBoost)
- Energy Savings Achieved
- Positive Feedback from Residents



# Post EPC



# Installation Phase



# Completion Phase



# Challenges Encountered

- Unforeseen Structural Issues
  - Budget Overruns
  - Compliance with PAS 2030
  - Competency Checks
  - Quality Management
  - Planning Time
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# Lessons Learned

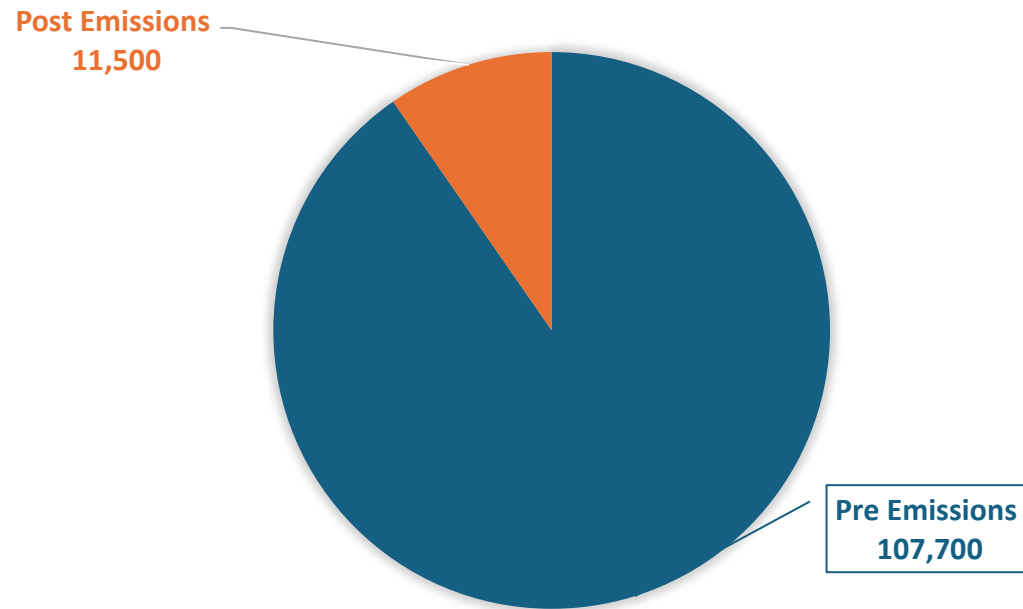
- Communication and Stakeholder Engagement
  - Cost and Budget Management
  - Thorough initial assessments
  - Continuous Communication with Residents
  - Permitting and Documentation
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# Environmental and Sustainability Outcomes

- Reduction of 96,200kgs carbon emissions per year
  - Increased Brand Reputation
  - Enhanced Communities
  - Energy Independence
  - Alignment with Strategic Goals
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# Carbon Savings

PRE EMISSIONS VS POST EMISSIONS (KGS)



# Recommendations for Future Retrofits

- Customer Engagement
  - Planning Time
  - Budget Management
  - Quality Management
  - Permitting & Documentation
  - Energy Efficiency
  - Preliminary Checks
  - Workflow Management
  - Scope of Works
  - Regulatory Requirements
  - Competency Checks
-

# Conclusion

- Successful Project
- Key Learnings for future
- Platform to establish a roadmap to Net Zero



# Q&A

