

**Presented By** 

Dougie Wilson,

**Customer Service Manager** 

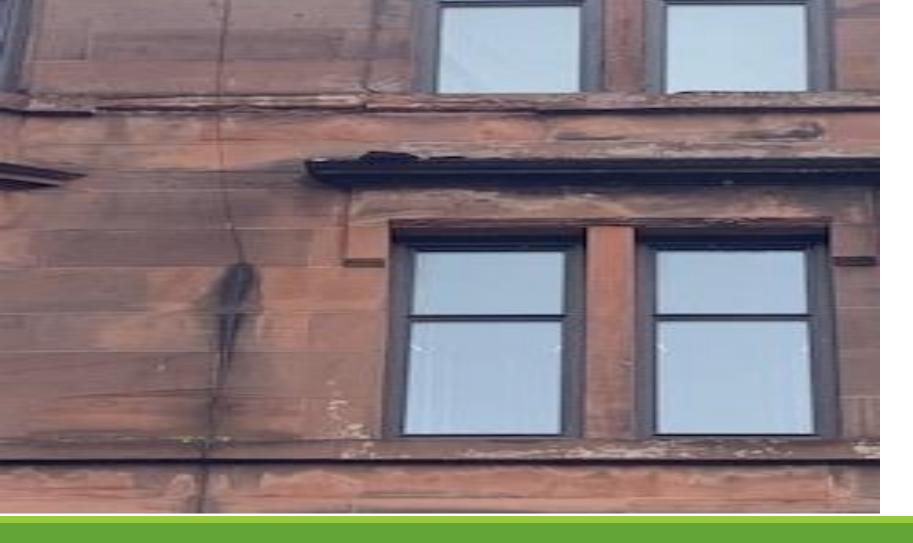
&

Anne Marie Brown,

**Chief Executive** 

# Retro Fit for Zero Carbon

Can we achieve it, and can we afford it?





This project refers to typical red sandstone Victorian Tenement properties built around 1900

# First Some Background Information ....

### Initially a Red Sandstone Repair Project

- Previous repairs deteriorating 35 years old
- Red Sandstone delaminating
- Pointing needing to be replaced
- Masonry falling into Gardens



### Four Red Sandstone Victorian Properties

**DUMBARTON ROAD** 



SCOTT STREET



### Complex Project....Reason

Mixed Tenure Buildings which made the project a bit more problematic as opposed to having blocks of just tenanted properties

### Comprising of :-

- Tenants
- Owner Occupiers
- Private Landlords
- Commercial shop units



# Four Commercial units below in Dumbarton Road

- Pub
- Barbers
- Mini market
- Bakery



Protective walkway around 4 closes and a row of commercial properties to protect general public

- License from West
   Dunbartonshire Council
- Cost of the walkway incurred by DPHA
- Weekly Health and Safety checks and administration





### Specialist Stonework Survey Carried Out





Architects carried out an assessment of the red sandstone properties

Produced a report for the Board of Management with recommendations on how to address the issue of stonework repairs throughout the sandstone stock



# Procure Contractor to Carry out the repairs to the Stonework

### The Valley Group Successful Contractor

Access additional funding from the big 6 utilities

Criteria for HEEPS funding from WDC to assist owners to meet with the cost of repairs



No funding available for the commercial shop units from West Dunbartonshire Council

Only in Glasgow has funding be made available to commercial units for this type of work from the City Council

No other LA provides commercial funding assistance





The Stonework repairs grew into a much bigger complex project. The two options available:

- 1.Stone repair alone, or
- 2.Stone repair with Internal & External wall Insulation

By wrapping the building with internal and external insulation, would allow the owners to access Home Energy **Efficiency Programmes** for Scotland grant funding (HEEPS) from West Dunbartonshire Council of £7,500 towards their costs. And allow the buildings to be more energy efficient.



### Planning Permission

West Dunbartonshire Council will not allow changes to the front elevation of the properties, so internal insulation was the only alternative for the facade of the buildings.



Asked the Question of the Scottish Govt about grant funding to assist Dalmuir Park HA with the cost of the project

### Scottish Govt Funding Available

Scottish Housing Net Zero Heat Fund £200 million

"Fabric First" Application



# Looked for additional funding options to assist owner occupiers & commercial owners



# Made an Application for Funding to the Scottish Govt



what are other words for lengthy process?



rigmarole, fuss, fuss and bother, bother, commotion, trouble, folderol, ado, pother



# Thesaurus.plus

## Funding Application timeline with the Scottish Government



Feb. 2022 Initial application made to SHNZ Heat Fund.

Nov 2022 Awarded Grant for tenanted property's - £151k

Pandemic - contract retendered. 28% increase in costs; previous contractor was successful again

Mar 2023 Additional funding application made

May 2023 Further award of £127k match funded with DPHA

Work commenced early July 2023

### Carbon Reduction Assessment

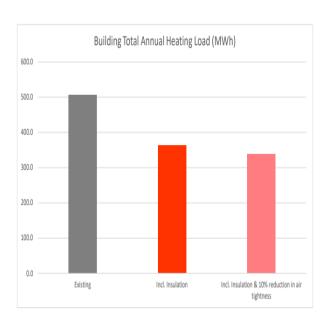
The Carbon Reduction Assessment demonstrates that through the introduction of internal and external wall insulation, heat energy demand and heat carbon emissions will be reduced by around 28%.

In reality, a greater reduction of 33% is likely to be achieved through the associated improvement to air tightness that the works will provide.

### **Dumbarton Road Carbon Reduction Assessment**

### **Executive Summary**

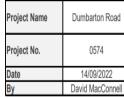
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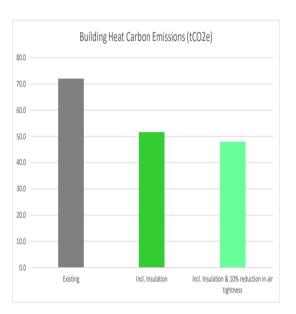


### Methodology

Dynamic Simulation Modelling was carried out to ascertain the heat demand of the blocks as they are existing and then again with the introduction of the internal and external wall insulation, as identified in the images below.

Project Name	Dumbarton Road
Project No.	0574
Date	14/09/2022
Ву	David MacConnell







Energy Efficiency Rating Improvement From a Band D or C to Band B

# Internal wall insulation with finished plasterwork





Work has been carried out with Dalmuir Park HA Tenants remaining in situ

Only one tenant out of 30 flats has had to be decanted for internal insulation to be installed

No complaints from owners or tenants

Works completed on programme





# Project is in its final stages and will be complete by the middle of December weather permitting

One of the more successful IWI/EWI Projects experienced by Grant Murray Architects and confirmed by Scottish Government

## Retro fit for Zero Carbon can we achieve it? YES ......

### CONTRACTOR LIAISON OFFICER



### DPHA DEDICATED PROJECT TENANT LIAISON OFFICER





### The Financial Figures. Project £665,000 inc VAT

Costs inc VAT.

Repairs cost to date £295,304

Stonework £55,630

IWI /EWI no Vat £239,674

Owners charge £82,000

Commercial charge £130,000

Professional Fees £36,304

Protective walkway £16,000

**Funding to date** 

HEEPS funding (UNDER REVIEW) £37,500

SG grant received £147,652

Scotland's ambitious climate change legislation sets a target date for net zero emissions of all greenhouse gases by 2045.

Can we afford it?



