



IoT Solutions
Group

Social Housing Decarbonisation Funding

Lessons and insights

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Digitalisation of Retrofit

When considering Wave 2, BEIS looked at the typical uses of data in retrofit based on findings from SHDF Demo and Wave 1

- First inclusion in Wave 2
- Short application window
- Complex process
- Broad subject
- Aims?

Digitalisation – likely policy

SHDF are considering providing funding to support the digitalisation of retrofit. The digitalisation of retrofit encompasses 4 potential areas of interest:

- The usage of IoT sensors and monitoring platforms to collect relevant real-world data (from the properties being retrofitted) for the assessment of properties to enable retrofit, or after retrofit for monitoring and evaluation purposes.
- The usage of building information modelling technology to design retrofit solutions using real world data from the properties being retrofitted.



This could include real performance data such as:

- Heat Transfer Co-Efficient
- Space heating demand
- Internal Air Quality
- Humidity testing

Could I use tools like BIM to create a more integrated and potential standardised approach to retrofit?

Likely funding level:
Up to 2% of capital spend per bid (max £600k per bid – including grant funding and co-funding) eligible for digitalisation of retrofit

What does good look like?

For Housing Providers?

- What do you want to achieve?
- What data will support these goals?
- In what format?
- Has it been achieved?



Pre-retrofit

and/or



Post-retrofit

For Residents?

- What are your concerns?
- What do you want your HA to know?
- What would you like sight of?
- Has your quality of life improved?

Supporting SHDF applications

Question 5.1:

Pre-prepared 500-word answer including short-term and long-term benefits, and details on the proposals alignment with their digitalisation strategy

Table 16: Costings

Table 16 - Project Cost Breakdown - Digitalisation			
Count of items	Inc. non-recoverable VAT	Exc. VAT	
Smart technology/sensors/monitoring platforms to collect real world property data	£ -	£ -	
Building information modelling technology to design retrofit solutions using real world data	£ -	£ -	
Energy efficiency measurement and electricity demand management tools to optimise energy usage	£ -	£ -	
Other innovative digital technologies distinct from typical retrofit practice	£ -	£ -	
Total	£ -	£ -	
Total digitalisation spend	Total digitalisation grant	Total digitalisation co-funding	% against total capital costs
£ -	£ -	£ -	0%



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