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Decarbonising our Homes

Carmarthenshire Home Standard

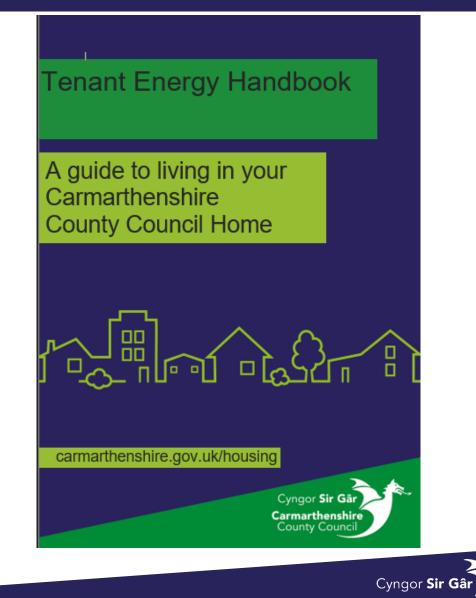
Cyngor Sir Gâr

Carmarthenshire

County Council

Our Aspirations

- Mitigate fuel poverty for our tenants by providing low energy housing solutions
- Reduce the carbon footprint produced by our homes
- Maximise local skills and trades
- Develop a decarbonisation strategy using the data gathered from ORP
- Improve tenant awareness around living with a lower carbon footprint



Carmarthenshire County Council

Project Overview

- Deep retrofit on 7 void
 properties
- Timing meant that we couldn't work on occupied properties
- 6 On gas properties
- 1 off gas property
- 1 Property had existing PV

	End terrace	Mid terrace	Semi- detached	Detached	Flat	Total
Pre 1919	0%	1%	0%	0%	0%	1%
1919-1944	2%	3%	7%	0%	1%	13%
1945-1964	3%	3%	26%	0%	6%	38%
1965-1990	8%	8%	14%	0%	13%	43%
Post 1990	1%	0%	2%	0%	2%	5%
Total	14%	15%	49%	0%	22%	100%



What we did & Achieved

MEASURES:

Wall insulation

- Increased loft insulation
- LED lighting
- Mechanical ventilation with heat recovery (MVHR)
- High efficiency gas boilers or heat pumps
- Solar Photovoltaic (PV)
- Lithium ion batteries
 - Intelligent Energy Systems (IES)

Our SAP calculations for all the properties will achieve an average Environmental Impact Rating of SAP 93 (EPC A) Properties will achieve an average saving of 71% in carbon reductions and a fuel bill saving of 63% per year for tenants



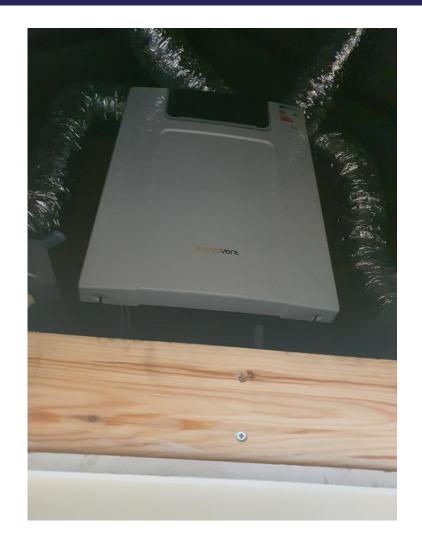


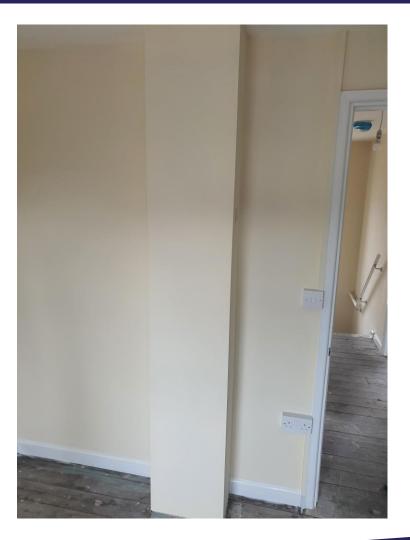
How it Looks



Retrofit Component – MVHR

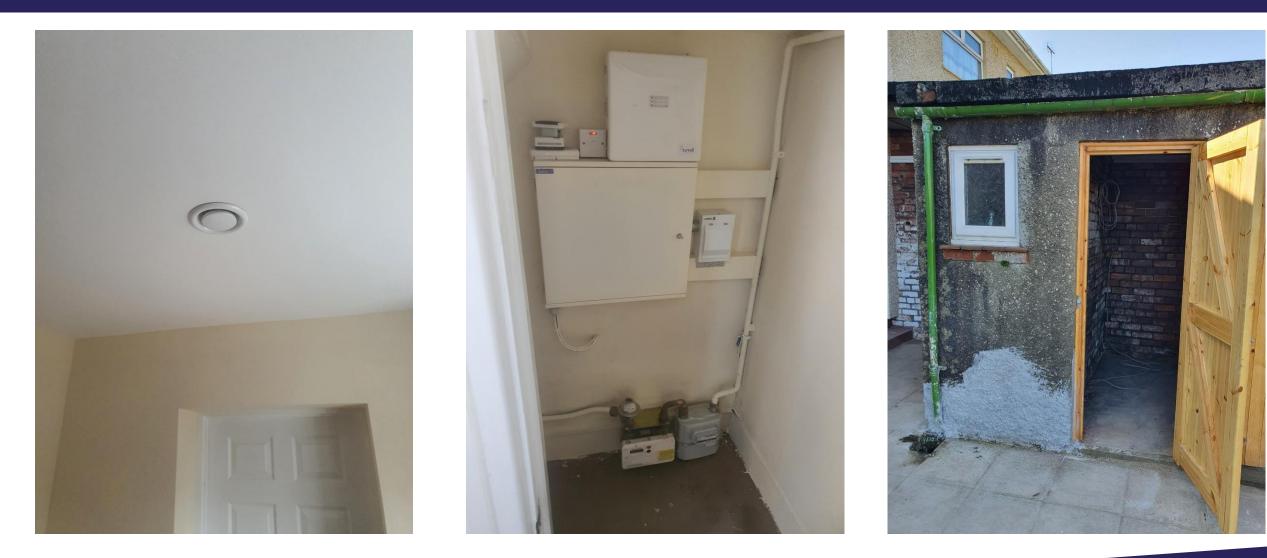








Low Impact Retrofit for Tenants

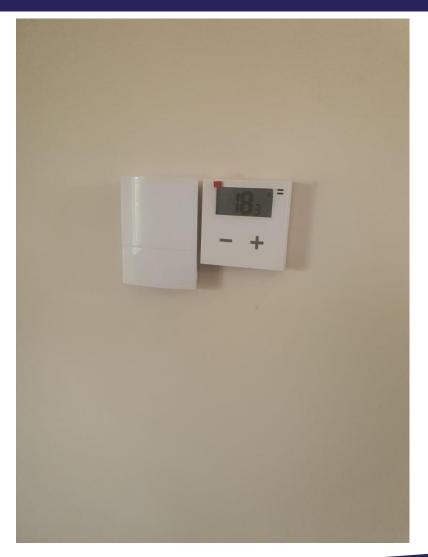




Low Impact Retrofit for Tenants

In order to help with tenant buy-in, we needed to ensure that we:

- Minimised the number of controls within the property
- Provide support for tenants moving in
- Avoid making a home look like a 'factory'
- Manage expectations





The Results so far...

Average Gap Funding per home -**£23,518**

> Biggest carbon Reduction -**2463** to **707** kg CO₂ /year

Biggest running cost saving - **£610** to **£168** /year

> All properties performed better than Building Regs standard for air tightness – **5.4 m³/h/m²**





Lessons Learnt



Cyngor Sir Gâr Carmarthenshire County Council

Diolch Thank you

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