

Optimised Retrofit



Llywodraeth Cymru
Welsh Government

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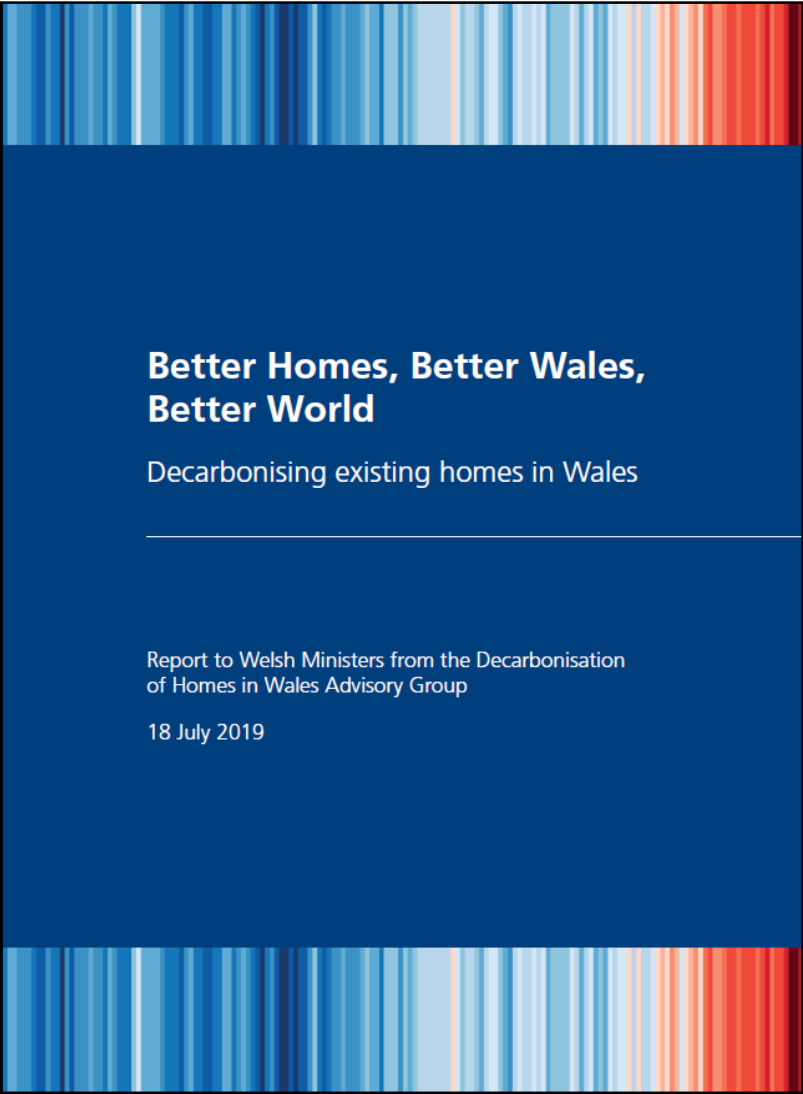


Dan Dunning
Head of Decarbonisation &
Standards Programme Office

ORP The story

- Environment (Wales) Act 2016
- Welsh Ministers have made decarbonisation one of their top priorities in “Prosperity for All: the national strategy’
- Declaration of a ‘Climate Emergency’ by Welsh Ministers on 29 April 2019 – now pushing towards being 100% net zero by 2050
- Dept for Climate change set up in response
- Officials challenged to write a decarbonisation programme for this term of government (2021)

...this led to ...



**Better Homes, Better Wales,
Better World**

Decarbonising existing homes in Wales

Report to Welsh Ministers from the Decarbonisation
of Homes in Wales Advisory Group

18 July 2019

the drafting of a report by
an independent advisory
group led by Chris Jofeh.

Leading to ORP's
Principles of;

TEST & LEARN

By undertaking research
and gathering of
evidence to support
policy and
recommendations

ORP The story

- ORP is a **Welsh Govt** Flagship policy/programme for this Senedd term (2026) and part of a suite of responses within the newly formed Department for Climate Change
- ORP programme launched August 2020
- Start in Social Housing, before Private Residential Sector & Owner Occupier
- £220m has been made available via the Optimised Retrofit Programme (ORP) to help landlords start their decarbonisation journey - **(£70m invested to date and at least a further £150m committed over the next 3 years)**.
- Involves Circa 40 Registered Social Landlords and 11 local authorities

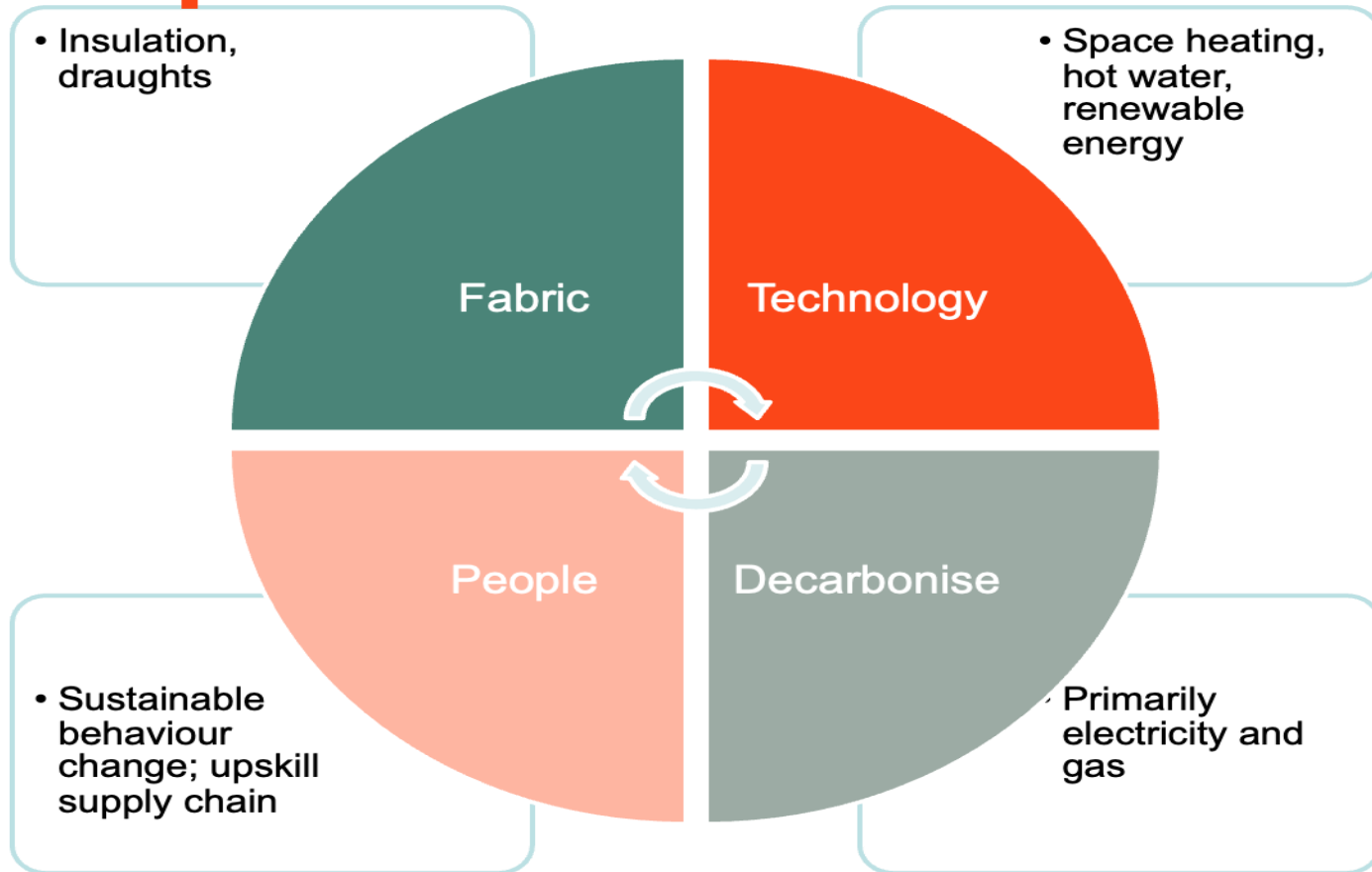
ORP “Principles” Approach

- ‘Optimised Retrofit’.
- *‘The best (value) combination of heating and fabric improvements for decarbonisation of a home to make it ‘Net Zero’ ready’ when considering a whole system approach. 3 principles approach*
- Measures
 1. Whole Home Assessment
 2. Fabric First;
Walls, Windows, Doors, Roof, Insulation, Ventilation, Cooling
 3. Energy Efficiencies
 4. Followed by the appropriate Heat & Power solution as ORP is about Decarbonisation so is open to all solutions

IES - Mandatory in ORP

- Intelligent Energy Systems - controls energy in and the use in the home to optimise cost and carbon benefits
- Monitors and records energy used in real time to give actual performance of the home / building to demonstrate with data the;
 - Current building energy performance
 - Impacts of any physical measures carried out on the building
 - Demonstrates changes of occupant behaviour (eg effect of energy efficiency advice)

Optimised Retrofit



Rural Energy Anaerobic Digestion , Energy Storage, Embodied Carbon, Move away from Demolition

Optimised Retrofit
Programme | GOV.WALES

**OptimisedRetrofitProgram
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