Construction Leadership Council RMI Working Group

Russell Smith for the STBA 24th March 2021

(updated v4)

A National Retrofit Strategy

Net Zero Carbon at Net Zero Cost



A National Retrofit Programme

- Upgrading approx. 27 million homes in the UK with energy efficiency retrofit measures to meet the 2050 Net Zero Carbon targets – by 2040
- 2. Government is the key in the lock industry can deliver
- 3. A **training and development programme** at its heart that will provide 400,000 skilled tradespeople to undertake the work across the UK.
- 4. Impacts every part of the UK, driving local economies everywhere.
- 5. Central agency akin to the Olympic Delivery Authority to lead and inspire householders and practitioners enabling locally led (place based) delivery.
- 6. 120,000 (direct and indirect) new jobs created in Year 1.
- 7. 520,000 (direct and indirect) jobs created by Year 5.
- 8. CO₂ savings of **21%** on 2019 emissions from UK homes by 2030.
- 9. CO₂ savings of **90%** by 2040.

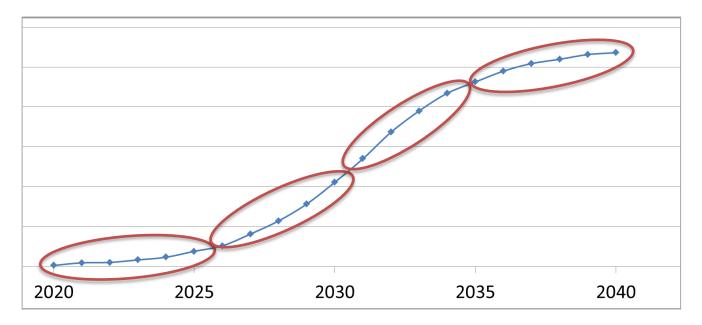


The interlocking components

Leadership and Communications	Performance Standards	Ensuring homes perform as promised. (Energy and Water!)
A Retrofit Delivery Agency akin to	Finance and	Financial support in a variety of ways
the stature of the Olympics Delivery Authority will be needed	Grants	to suit homeowners.
to oversee the communications	Training and	Building up an army of professionals
and leadership aspects of the programme to ensure that all	Accreditation	and trades that can do the work fully and well
stakeholders are fully enfranchised	Materials &	Scaling up the supply of materials and
and that standards are high.	Equipment	equipment
Supportive transition periods and a research and innovation culture	Creating Customer	A comprehensive approach to giving every homeowner a vision of what their home needs, the belief that it is
Provide a safe development environment for new entrants and	Demand	needed and a route to achieving the change.
existing organisations so that they	Compliance	Creating an industry culture that
grow to meet the new demands as well as extending in capability.	and Quality regime	ensures all jobs are done to the set standards.

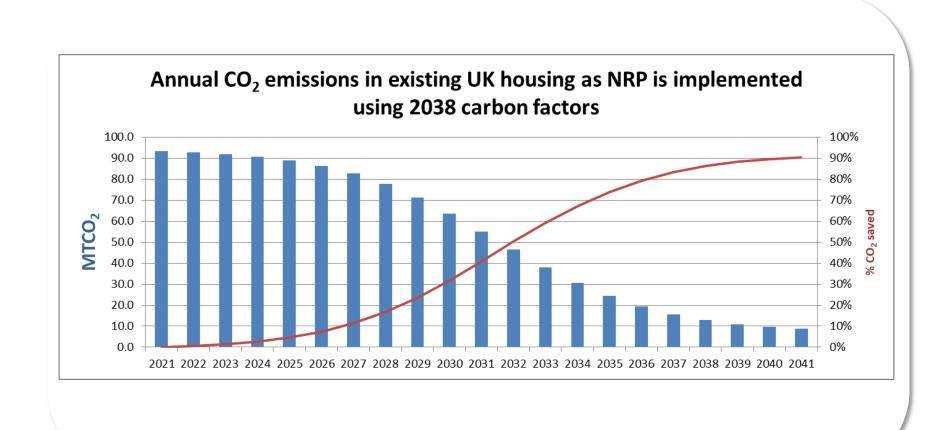
Building the capability

- Phase 1 Underpin capability
- Phase 2Build output
- Phase 3 Maximum speed
- Phase 4 Final push



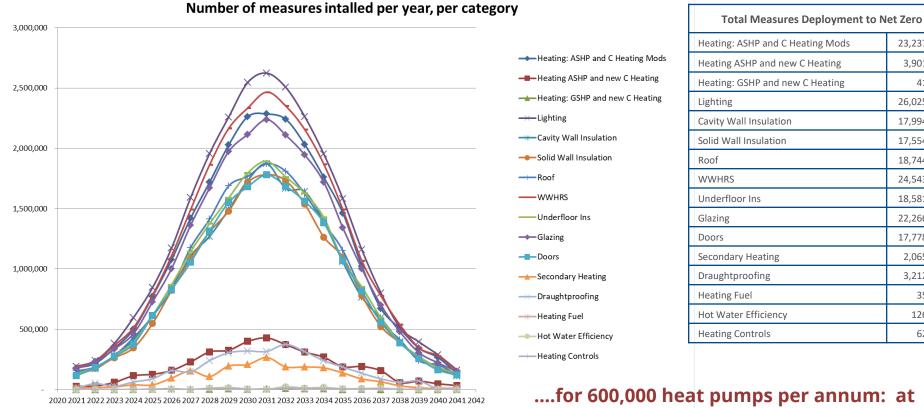


The CO₂





The measures



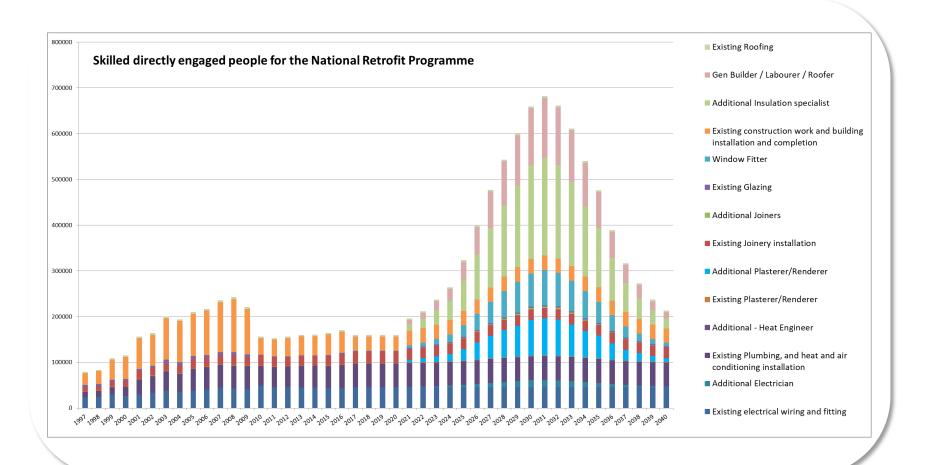
3,901,538 41,931 26.025.699 17,994,91 17,554,312 18,744,590 24,543,136 18.581.195 22,266,419 17,778,424 2,065,60 3,212,868 35,80 126.615 62,347

23,237,867

....for 600,000 heat pumps per annum: at least 400,000 homes need insulating to support that

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The jobs





Retrofit: the business case

- all figures are cumulative:

	Financial input	Finance return	Additionality	
Year 1 200,000 homes	£3.64bn programme Government invests £1.16bn Private capital, £2.5bn	Govt revenue £2.69bn Tax benefit per £, £1.36	47,000 jobs sustained Health benefits, £316m Additional GDP, £4.76bn	Avoided CO emissions: 0.532Mt
Parliamentary period 855,000 homes	£16.8bn programme Government invests £5.3bn Private capital, £11.4bn	Govt revenue £12.4bn Tax benefit per £, £1.84	100,000 jobs sustained Health benefits, £1.4bn Additional GDP, £21.9bn	2.53Mt
By 2030 12,300,000 homes	£235.7bn programme Government invests £75.4bn Private capital, £160.2bn	Govt revenue £174.4bn Tax benefit per £, £1.58	640,000 jobs sustained Health benefits, £22.1bn Additional GDP, £308.7bn	46.8Mt
Net Zero 27,300,000 homes	£523.7bn programme Government invests £167.6bn Private capital, £356.1bn	Govt revenue £387.6bn Tax benefit per £, £1.84	Jobs sustained 70,000 Health benefits, £55.9bn Additional GDP, £686.1bn	84.9Mt
Leeds Universit	ty, Parity Projects	·		Residual

8.9Mt

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Retrofit: the business case

- all figures are cumulative:

	Financial input	Breakdown		Govt. planned spend
Year 1 200.000 homes	£3.64bn programme Government invests £1.16bn	Variable Stamp Duty	Rev. neutral	Green Homes Grant, £2bn
		National Retrofit body	£6.4m	HUG, £2.5bn
	Private capital, £2.5bn	Supply Chain Innovation	£250m	
855,000 homes Gov	£16.8bn programme Government invests £5.3bn Private capital, £11.4bn	Skills and training	£200m	
		Local Authority area- based programme	£216m	
		Property passports and smart EPCs	£585m	
		Capital works*:	£4.04bn	
By 2030 12,300,000 homes	£235.7bn programme Government invests £75.4bn Private capital, £160.2bn	* Work on homes for those that cannot pay for it or access finance. Also on financial incentives e.g. paying for finance costs in early year finance trials.		
Net Zero 27,300,000 homes	£523.7bn programme Government invests £167.6bn Private capital, £356.1bn	Leeds University, Parity Projects		



Multiple benefits to UK Plc

- **Every** community benefits.
- Not limited to single sector, includes manufacturing, labour market etc.)
- Increase government tax revenues by £174Bn by 2030
- Net Govt. surplus of ~£100Bn by 2030.
- Programme delivers cumulative benefits of
 - avoided CO₂e (£11.4Bn)
 - improved health (£15.2Bn)
 - comfort (£15.1Bn)
 - air quality (£13.9Bn)
- A cumulative ~298MtCO2e, or 36% of the savings are required for the 4th and 5th carbon budgets.



A National Retrofit Programme



RETROFIT WORKS

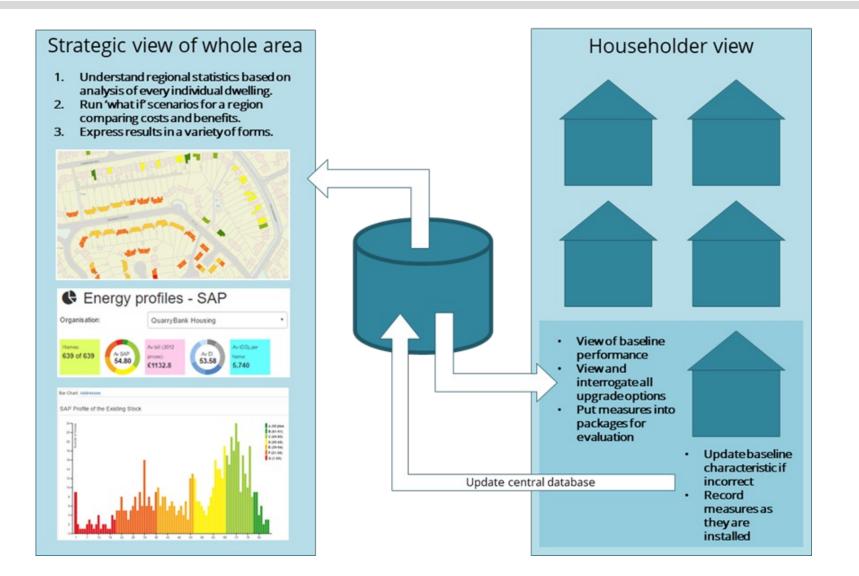
BEIS Supply Chain Pilots



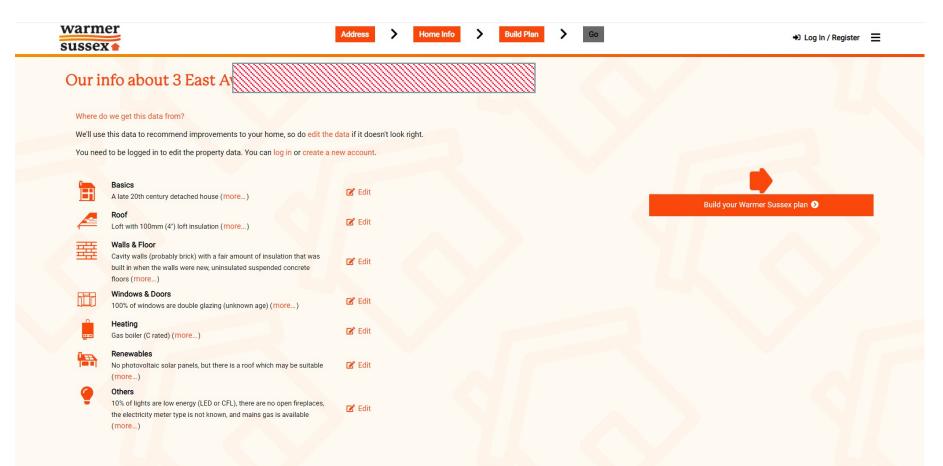
Introduction to

warmer Sussex

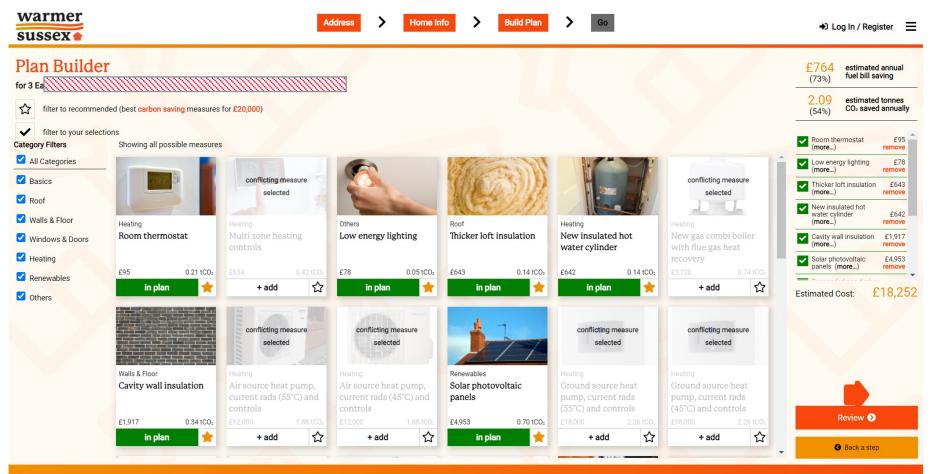
Smart Marketing (1)



Smart Marketing (2)



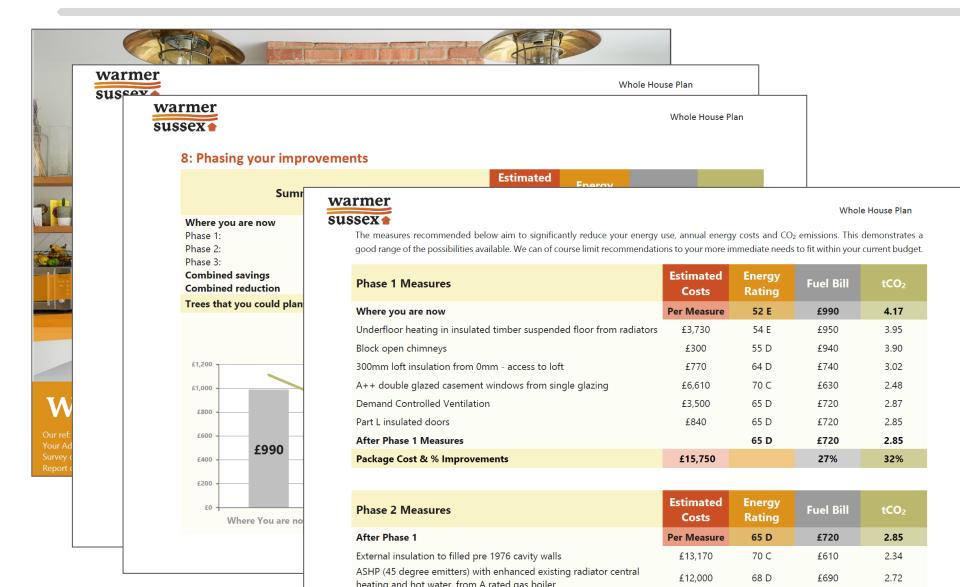
Smart Marketing (2)



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The Whole House Plan



Building Performance Spec.

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https://www.constructionleadershipcouncil.co.uk/news/n ational-retrofit-strategy-consultative-document/

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