## South Derbyshire EPCs Portfolio results Session 2

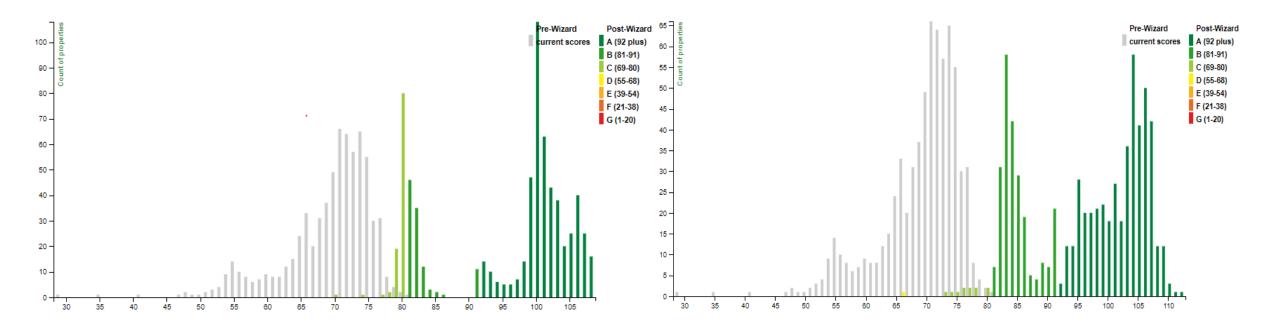
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#### Zero Carbon SAP 994 (Current Carbon Factors)

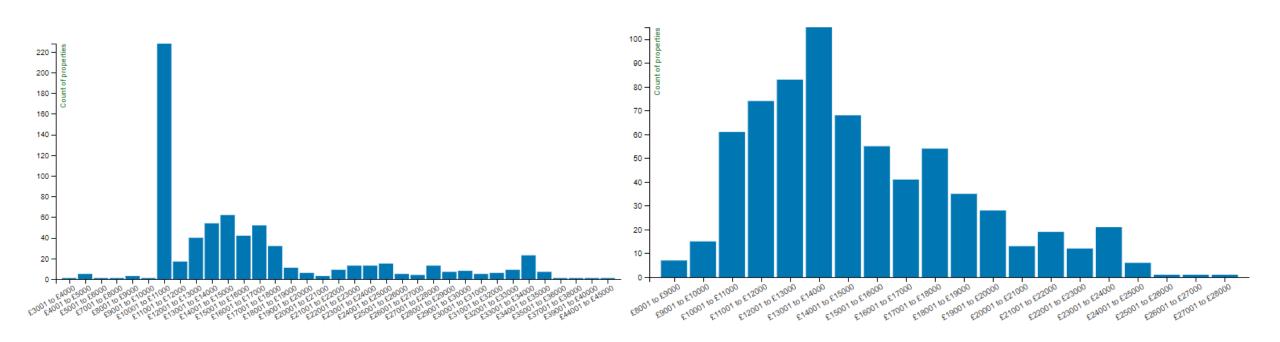


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### Investment breakdown



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	Complete Stock	Complete Stock	Complete Stock
Homes	700 😤	700 🏘	700 😤
Mean SAP	69.28 C (+0.00)	95.18 A (+25.90)	95.89 A (+26.61)
Mean El	69.35 C (+0.00)	96.58 A (+27.23)	96.09 A (+26.75)
Mean Fuel Bills	£550.29 (+0.00)	£77.78 (-472.51)	£67.59 (-482.70)
Mean Fuel Bill (realistic)	£595.55 (+0.00)	£207.57 (-387.98)	£147.7 (-447.85)
Mean tCO <sub>2</sub>	2.435 (+0.000)	0.232 (-2.203)	0.289 (-2.146)
Mean 2017 tCO <sub>2</sub>	1.962 (+0.000)	0.999 (-0.963)	1.302 (-0.660)
Mean 2019 tCO <sub>2</sub>	2.027 (+0.000)	0.112 (-1.915)	0.737 (-1.290)
Mean 2025 tCO <sub>2</sub>	1.868 (+0.000)	0.057 (-1.810)	0.953 (-0.915)
Mean 2030 tCO <sub>2</sub>	1.840 (+0.000)	0.048 (-1.792)	► 0.990 (-0.850)
Mean 2038 tCO <sub>2</sub>	1.788 (+0.000)	0.030 (-1.758)	1.061 (-0.727)
Mean 2050 tCO <sub>2</sub>	1.772 (+0.000)	0.025 (-1.747)	1.082 (-0.689)
Mean Heating Bill	£506.11 (+0.00)	£357.21 (-148.90)	£371.07 (-135.04)
Mean TThreshold	18.47°C (minimal) (+0.00)	18.83°C (minimal) (+0.36)	18.71°C (minimal) (+0.24)
Mean kWh per M2	161.69 (+0.000)	9.73 (-151.960)	62.61 (-99.090)
kWh	9,509.73 (+0.000)	553.05 (-8956.680)	3,690.66 (-5819.070)

Stock comparison pre/post measures - inclusive of renewables (PV) C+Bs.

- carbon emissions – vary hugely due to gas consumption. Highlights requirement to move to electric heating

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#### Fabric measures

Walls 523 51,814,694 523 51,814,694 523 51,814,694 <th 51,81<="" td=""><td></td><td>Cavity</td><td>Cavity Insulation 1 £530</td><td></td><td></td><td>Cavity</td><td>Cavity Insulation 7 £3,917</td></th>	<td></td> <td>Cavity</td> <td>Cavity Insulation 1 £530</td> <td></td> <td></td> <td>Cavity</td> <td>Cavity Insulation 7 £3,917</td>		Cavity	Cavity Insulation 1 £530			Cavity	Cavity Insulation 7 £3,917
	373	Internal to Cavity 284 £1,244,047			750	Internal to Cavity 555 £2,280,342		
		£1,332,577	Insulate Party Wall 88 £88,000	Fabric 3349 £7,776,987	Walls 1 <b>012</b> £3,180,971	£2,472,259	Insulate Party Wall 188 £188,000	
		Solid 17 £67,063	Internal to Solid 17 £67,063			Solid 18 £70,085	Internal to Solid 18 £70,085	
	£1,814,694	Timber 32 £236,865	Internal to Timber 32 £236,865			Timber <b>56</b> £306,608	Internal to Timber 56 £306,608	
		Other 101 £178,189	Alternate Wall 101 £178,189			Other 188 £332,019	Alternate Wall 188 £332,019	
		Loft Insulation 189 £75,148	Virgin 3 £1,673		Roofs <b>505</b> £241,056	Loft Insulation <b>457</b> £185,307	Virgin <b>3</b> £1,673	
			Top Up 160 £58,152				Top Up <b>427</b> £167,974	
	Roofs		Unknown, No Access to Loft 19 £11,008				Unknown, No Access to Loft 20 £11,345	
			Unknown, Access to Loft 7 £4,315				Unknown, Access to Loft 7 £4,315	
		Flat Roof Insulation 32 £41,048				Flat Roof Insulation 47 £55,425		
		Rafter or Ceiling Insulation 1 £324	-			Rafter or Ceiling Insulation 1 £324		
		Solid Floors 343 £589,079	8		Floors 577	Solid Floors 453 £783,198		
Floors 450 £743,978 Glazing 538 £1,544,577	Floors	Suspended Timber Floor 98 £141,178				Suspended Timber Floor 101 £145,664		
	450	Suspended Not Timber Floor 1 £1,471 Exposed Floor 8 £12,250			£960,363	Suspended Not Timber Floor 7 £11,794		
	£743,978					Exposed Floor 16 £19,707		
					1248	Double 700 £2,759,097	A++ rated 700 £2,759,097	
	Oleria	ng £1,256,317	A+ rated 5 £27,376			Doors 548 £632,000		
	538		A++ rated 312 £1,225,346	-	Draughts 6 £1,500	Chimneys 6 £1,500		
		Triple (A++ rated) 1 £10,660			Conservatory 1 £2,000			
		Doors 220 £277,600		Lighting 349 £11,820				
	Draughts 6 £1,500	Chimneys 6 £1,500		Photovoltaics 700 £2,658,900				

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#### Zero Carbon Investment Costs

Total Scenario Cost: £11,640,081

Cost per Home Affected: £16,629

#### Total Scenario Cost: £10,447,707

Cost per Home Affected: £14,925

Mean 2017 tCO <sub>2</sub>	0.999 (-0.963)	0.999 (-0.963)	0.999 (-0.963)
Mean 2019 tCO <sub>2</sub>	0.112 (-1.915)	0.112 (-1.915)	0.112 (-1.915)
Mean 2025 tCO <sub>2</sub>	0.057 (-1.810)	0.057 (-1.810)	0.057 (-1.810)
Mean 2030 tCO <sub>2</sub>	0.048 (-1.792)	0.048 (-1.792)	0.048 (-1.792)
Mean 2038 tCO <sub>2</sub>	0.03 (-1.758)	0.030 (-1.758)	0.030 (-1.758)
Mean 2050 tCO <sub>2</sub>	0.025 (-1.747)	0.025 (-1.747)	0.025 (-1.747)

Mean tCO <sub>2</sub>	0.289 (-2.146)
Mean 2017 tCO <sub>2</sub>	1.302 (-0.660)
Mean 2019 tCO <sub>2</sub>	0.737 (-1.290)
Mean 2025 tCO <sub>2</sub>	0.953 (-0.915)
Mean 2030 tCO <sub>2</sub>	0.99 (-0.850)
Mean 2038 tCO2	1.061 (-0.727)
Mean 2050 tCO <sub>2</sub>	1.082 (-0.689)

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## Next steps

- Provide:
  - Base data
  - Cleansed data
  - EPCs
  - XML
  - Potentially LIG XML dependant upon payment

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# Any Questions?

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