



Decarbonisation Pathway for Chichester



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Who are BHESCo?



485
community
investors



63 community
energy projects
completed



£2 million
investment
raised

Why is community action needed?



- Energy security
- Energy affordability
- Climate change
- Govt failures to address at scale
- Keeping the benefits local:
 - Jobs
 - Future proof homes
 - Retain value

Focus areas

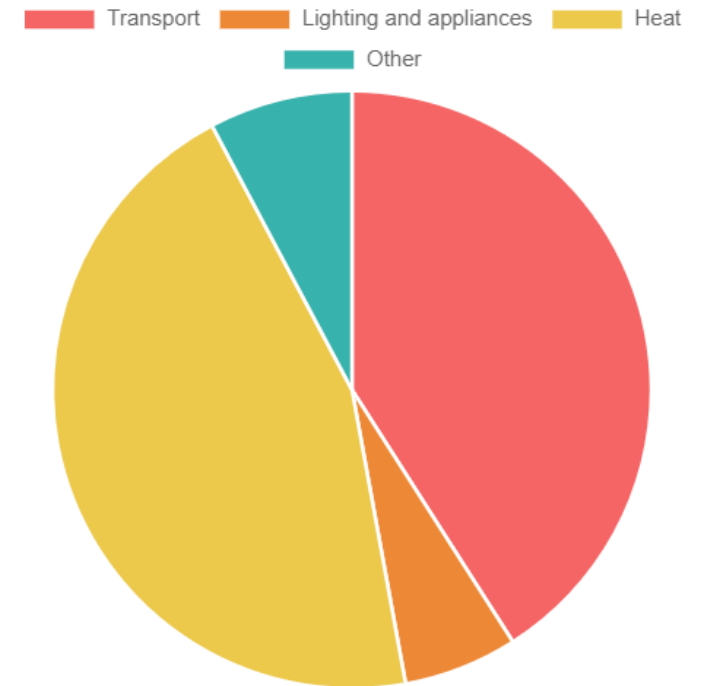
1. Decarbonisation Plan – pathway to Net Zero
2. Solar/Wind Renewable Energy Generation
3. Energy Efficiency and Retrofitting

Part 1:

Decarbonisation Plan –
Pathway to Net Zero

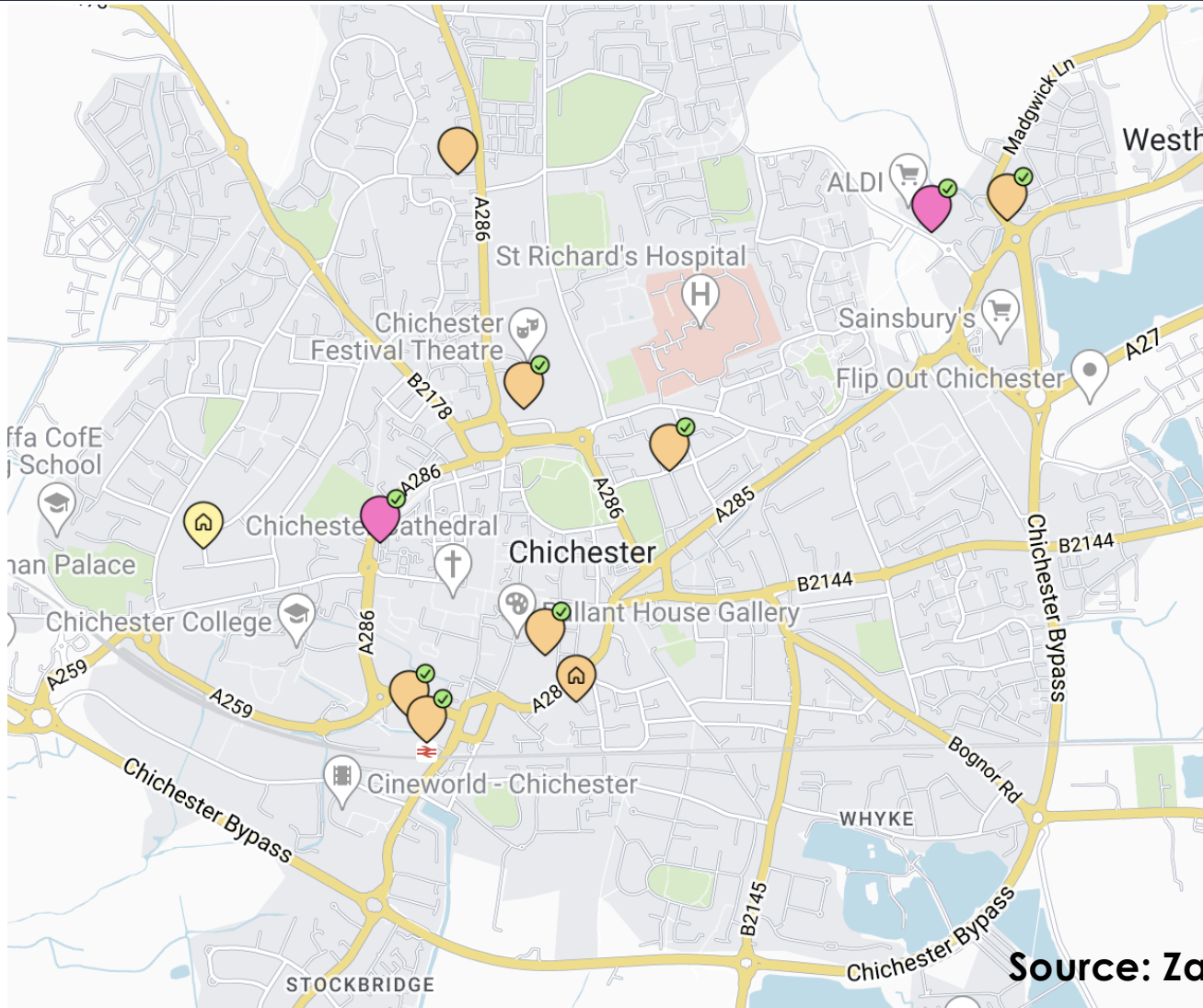
Decarbonisation Plan

- Incremental plan
- Annual targets
- Electric vehicle (EV) charging infrastructure
- Heat electrification plan
- Community benefit fund
- Energy efficiency
- Net biodiversity gain



(b) Primary energy consumption by end use, 2019

Carbon emissions - Chichester



By 2027, the cost of an electric vehicle will be less than a petrol vehicle.¹

¹ Reuters 7 March 2024 - Gartner report

Source: ZapMap

Part 2:

Renewable Energy Generation

Solar PV Farm

- Community-owned through local investment
- Community benefit fund for Chichester



Rooftop solar PV

- South, East or West facing roofs with minimal obstructions (skylights, chimneys, etc)
- Sharing solar electricity > 50 homes
- No upfront cost, immediate savings on energy bills



Wind Turbine(s)

“Respect for history is fine, but we also have to have respect for the future.”

“What did people say about pylons that brought electricity across the country? Do we want electricity or don't we?”

- **David Attenborough**
(about Glyndebourne wind turbine)



Glyndebourne wind turbine in SDNP



- The 67m Enercon wind turbine was launched in January 2012 by Sir David Attenborough.
- Many at the time argued it would blot the Southdowns landscape
- It took 6 years to get planning permission
- The wind turbine produces more electricity than the cultural centre uses every year

Chichester Wind Power



- Highest wind speeds on top of hills
- Support needed for planning permission
- Let's start the conversation!



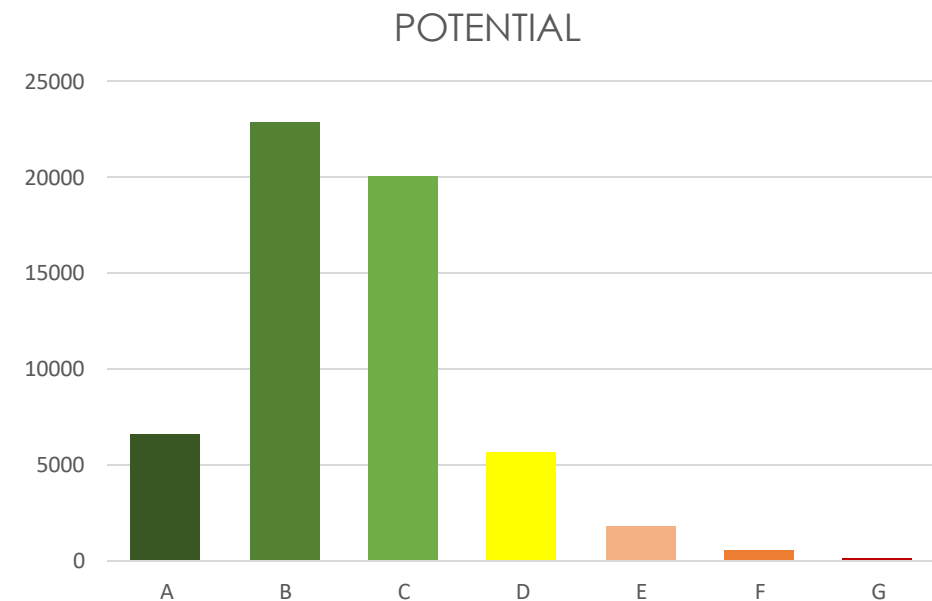
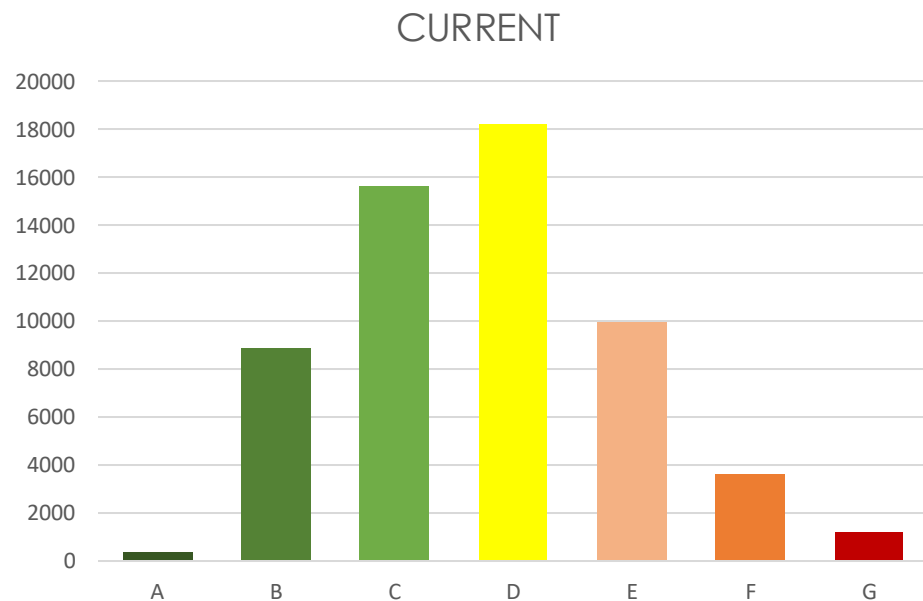
Part 3:

Home Energy Efficiency

Improvements

Home energy efficiency

- Chichester EPC data
- A measure of energy efficiency of homes
- Affordable electric heating means homes rated EPC C and better

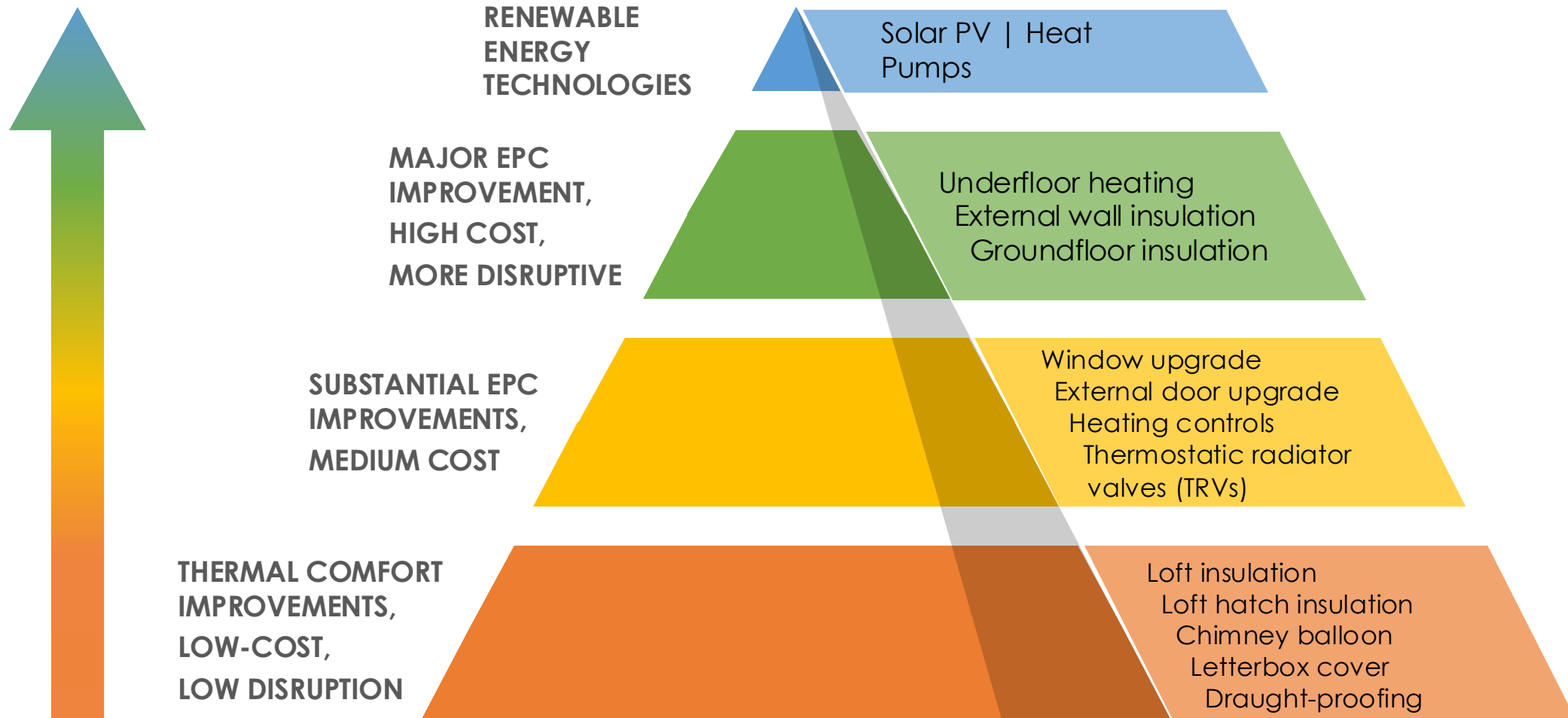


Home energy efficiency

- Roof/ wall/ floor insulation reduces heat required
- Decreases energy bills and carbon emissions
- Recommendations specific to your home
- Different homes = different weaknesses



BHESCo's Pyramid of Energy Upgrades



Heat Pumps

- Heat pumps reduce electricity consumption potentially saving 20% on heating costs
- Carbon emissions reduced by at least 75%
- £7,500 of government funding
- Particularly suitable for detached and semi-detached homes



BHESCo Energy Surveys

“BHESCo’s energy survey is a blueprint to improving your home’s ability to retain heat” – **BHESCo customer**

BHESCo DEA report_SN1252



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Order No.	Initiatives	EPC Point Rating	EPC Band Rating	Change in EPC Points	Annual Energy Bills (£)	Initiative cost (£)	Cumulative cost (£)
	Current	72.4	C		3,577		
1	300mm loft insulation from 100mm (Main loft)	73.07	C	0.67	3,488	1,160	1,160
2	Upgrade room-in-roof - insulate throughout, currently poorly insulated (Exts. 1 & 2)	73.17	C	0.1	3,474	2,987	4,147
3	Humidity controlled extractors per wetroom	73.17	C	0	3,474	316	4,463
4	Humidity controlled passive ventilation to non-wet rooms	73.17	C	0	3,474	568	5,031
5	2 Part L insulated doors – 2 of 2 external doors insulated (Main & Ext. 1)	73.45	C	0.28	3,438	1,749	6,780
6	Cavity wall insulation and external insulation (150 mm) to empty pre-1976 cavity walls (Main)	80.19	C	6.74	2,543	17,787	24,567
7	External insulation (100 mm) to post-1982 filled cavity walls (Ext. 1)	80.97	B	0.78	2,439	11,765	36,332
8	External insulation (100 mm) to as built solid alternate wall (Main porch & Ext. 1 sheltered wall to unheated garage)	81.27	B	0.3	2,400	6,369	42,701
9	Insulated floors (150mm) from 1930-1949 suspended timber floor (Main)	83.39	B	2.12	2,147	5,790	48,491
	Insulated floors (150mm) from 1981-2002 suspended timber floor						



Clean energy for People and planet, not for profit

QUESTIONS?

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