

# Sheffield City Region

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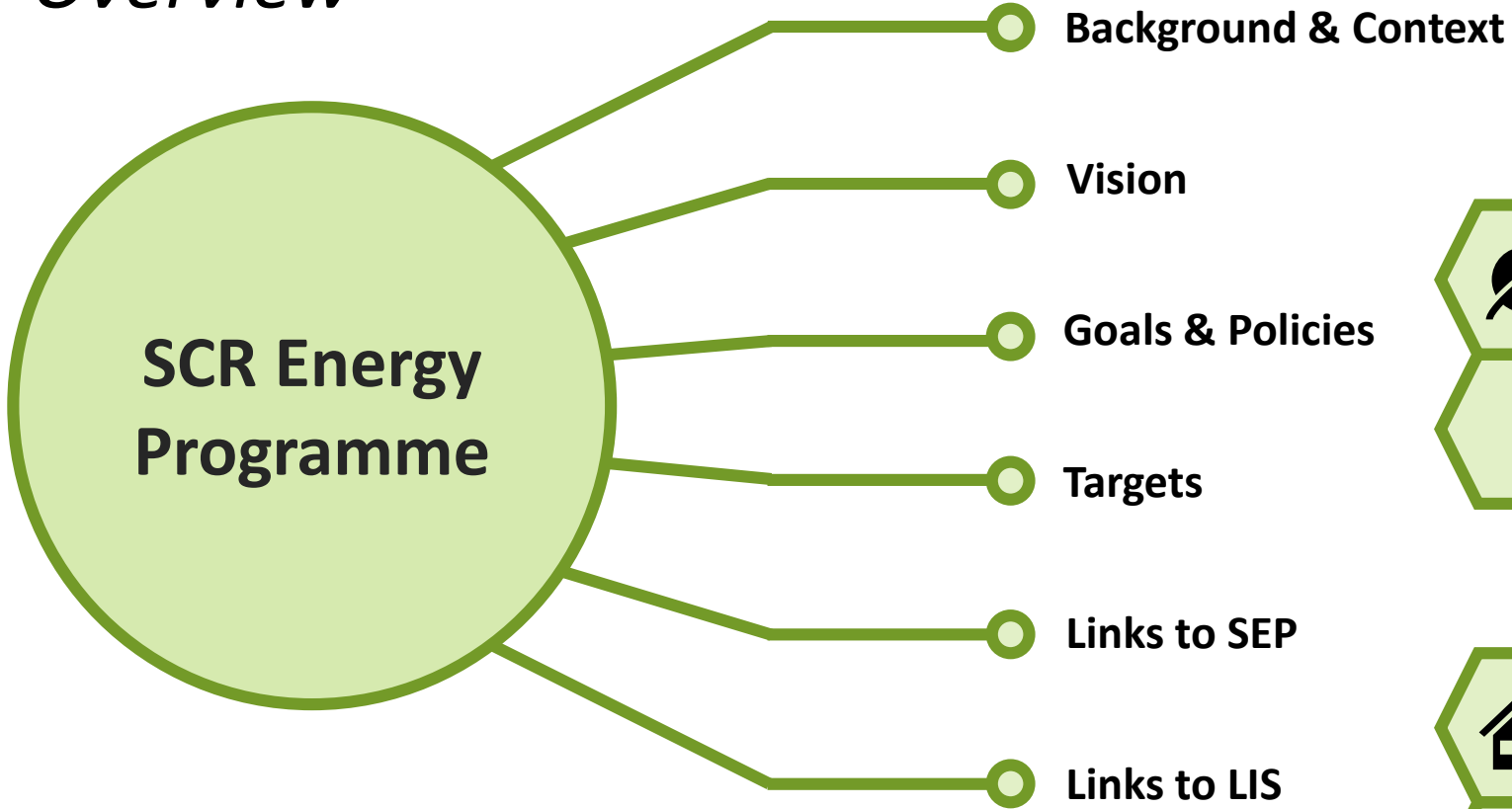
Clean Growth & Our Low Carbon Future

SCR Infrastructure Board  
29 August 2019



# Energy Strategy

## Overview



# Energy Strategy

## Background & Context



A Clean Growth Grand Challenge was included in the UK Industrial Strategy leading to the Clean Growth Strategy.



Climate Change Act 2008

Legislating for a 80% reduction in GHGs by 2050



An evidence-based report highlighting the benefits of keeping global warming to 1.5°C rather than 2.0°C.

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STATUTORY INSTRUMENTS

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2019 No. 1056

CLIMATE CHANGE

The Climate Change Act 2008 (2050 Target Amendment) Order 2019

Legislating for a 100% reduction in GHGs by 2050

# Energy Strategy

*Draft Vision*



For Sheffield City Region to be recognised as the  
**“Green Heart of Great Britain”**  
with:

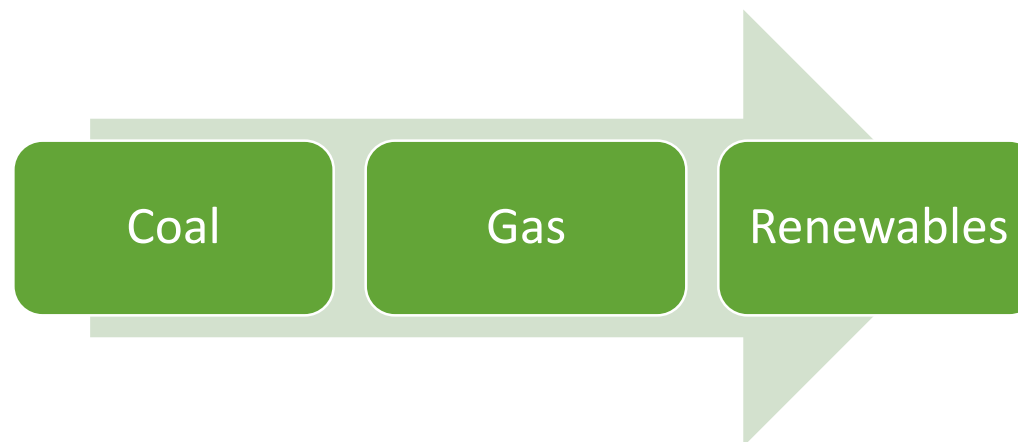
*A clean, efficient and resilient energy system, which supports a healthier environment for people to live, work and visit, and which drives our transition to a low carbon economy.*

# Energy Strategy

## *Key Principles*

Transition from high carbon to low carbon electricity supply.

Transition from high demand to low and flexible demand.



Transition from centralised to decentralised energy system.

Transition from fossil fuel heating to electric/hydrogen/heat network.

# Energy Strategy

## Goals & Policies

<p><b>1</b> Drive clean growth in our local businesses</p>	<p><b>2</b> Promote investment in low carbon energy generation, distribution and storage</p>
<p><b>3</b> Improve the energy efficiency and sustainability of our neighbourhoods and built environment</p>	<p><b>4</b> Accelerate the shift towards an ultra-low emission transport system</p>

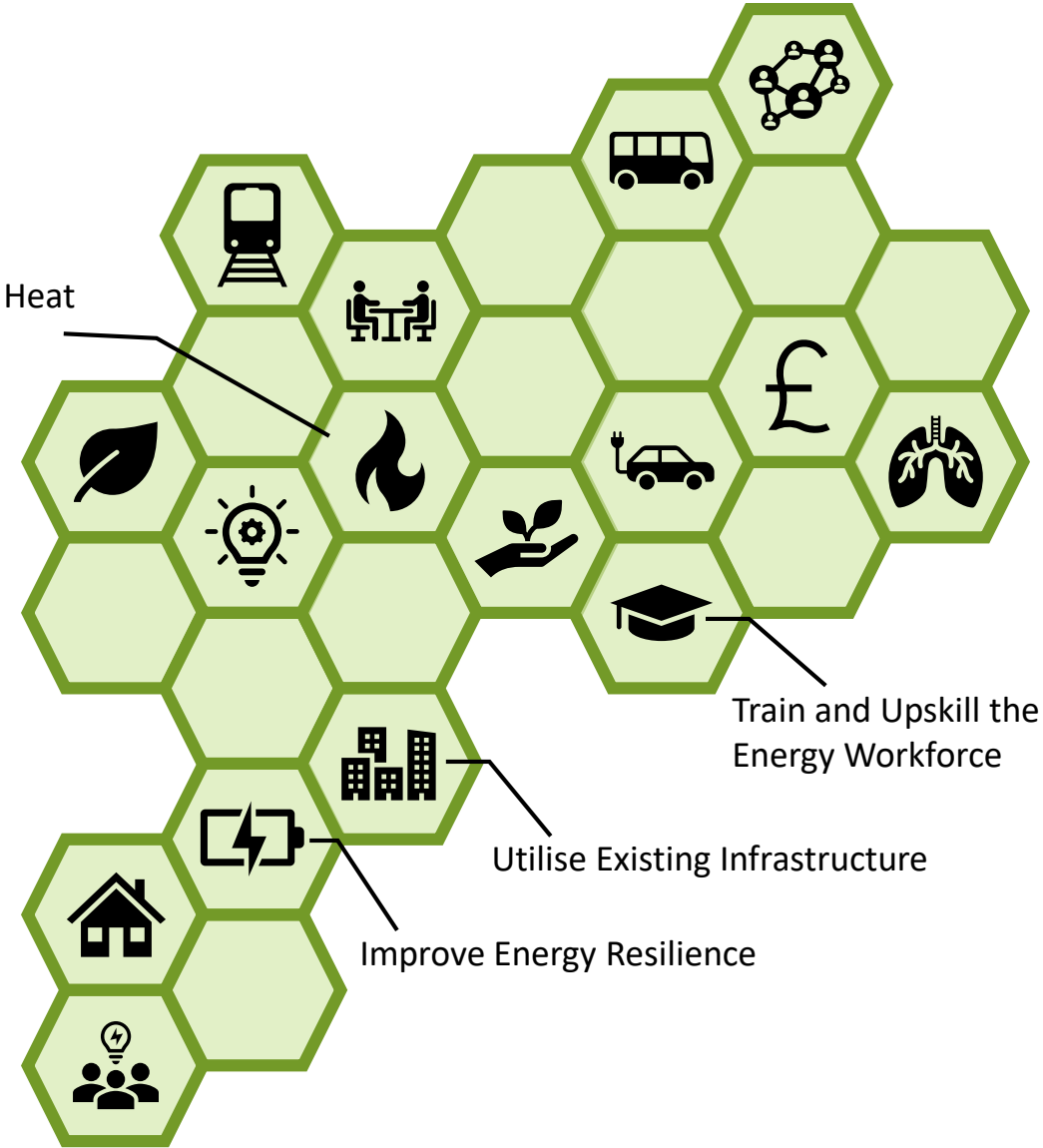


# Energy Strategy

## Goals & Policies

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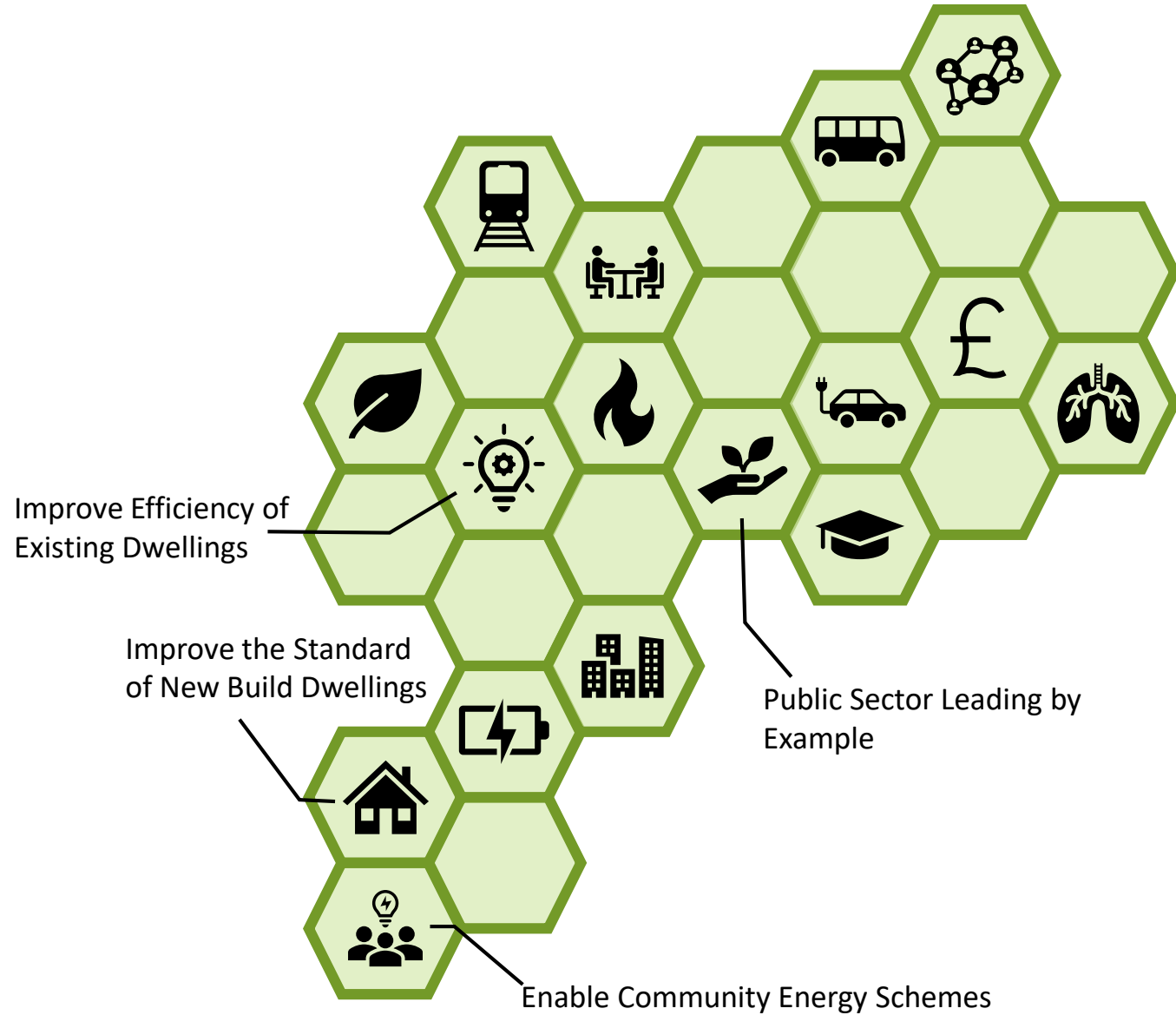
Drive Investment in Heat Networks



# Energy Strategy

## Goals & Policies

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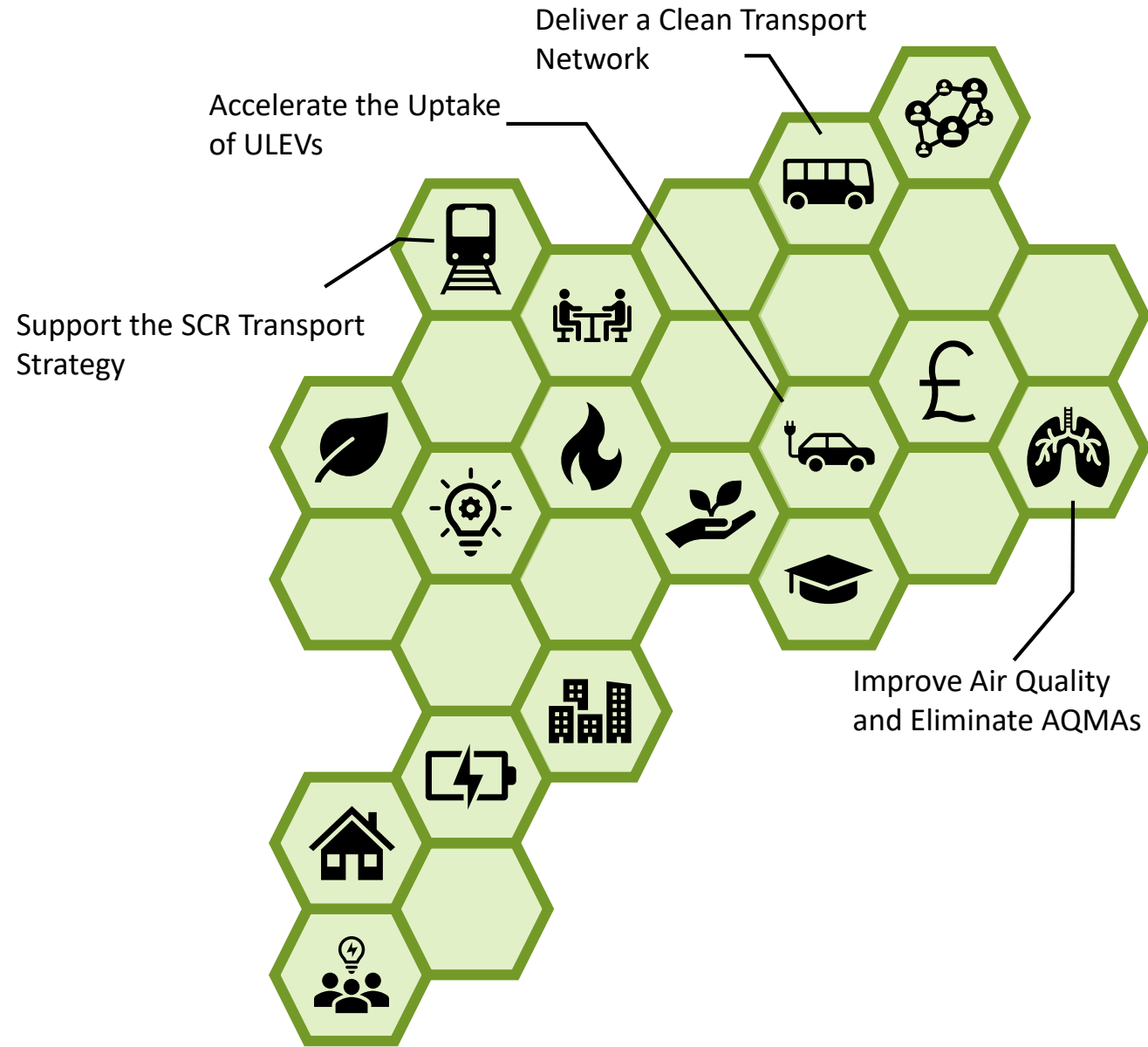




# Energy Strategy

## Goals & Policies

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# Energy Strategy

## *Targets*



**TBC – Ricardo Energy & Environment have been commissioned to carry out the analysis.**

Regional Carbon Budget – late-August 2019

Bottom-up Tangible Targets – mid-Nov 2019

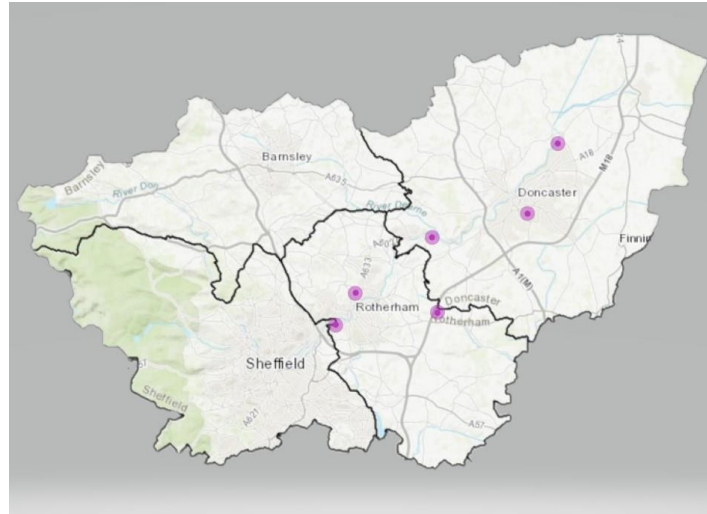
Economics/Jobs/Productivity – early-Dec 2019

# Energy Strategy

## Links to Strategic Economic Plan

*'The move to cleaner economic growth – through low carbon technologies and the efficient use of resources – is one of the greatest industrial opportunities of our time.'* \*

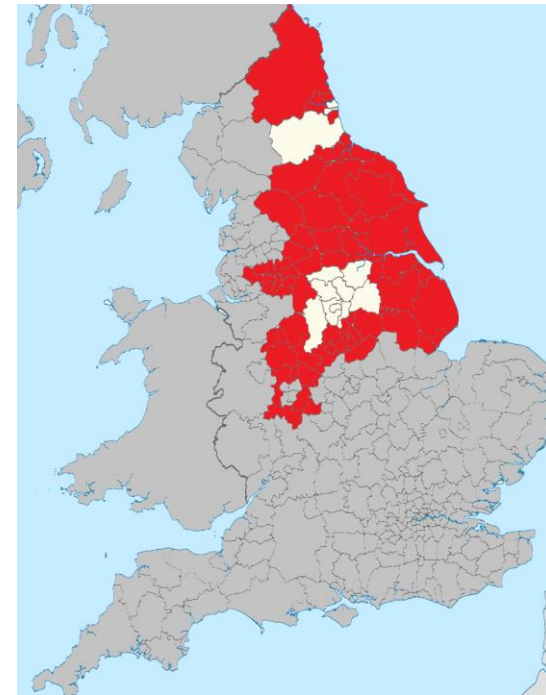
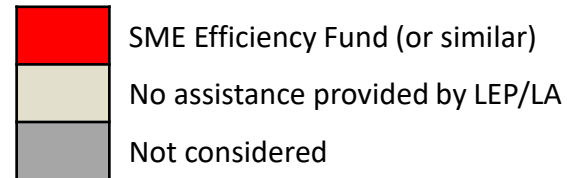
### Energy Resilience



- In purple, locations of inward/further investment not taken forward due to energy constraints.
- Local low carbon supply alongside grid improvements could help to resolve the issues faced.







### Business Support

- Most LEPs or Local Authorities have a business energy / resource efficiency fund.
- This reduces their energy bills and directly affects their profitability.



# Energy Strategy

## Links to Local Industrial Strategy

Health & Wellbeing Mission	Clean Growth Mission		
	Hydrogen from Electrolysis	Minewater Energy	Nuclear Research
<ul style="list-style-type: none"> <li>Better indoor and outdoor air quality leading to reduced respiratory and cardiovascular disease.</li> <li>Cold and damp homes affect both physical and mental health.</li> <li>Green space linked to reduced anxiety and improved mental health.</li> <li>The costs to the NHS and social care of air pollution is predicted to cost £18.6bn by 2035.</li> </ul>	 	 	 

# Energy Strategy

## Timeline

