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A leadership role for the Council

Elin Hultgren Senior Energy Projects Officer Nottingham City Council

Energy Services



Energy Services supports organisations to switch to renewable and low carbon energy solutions

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About Us

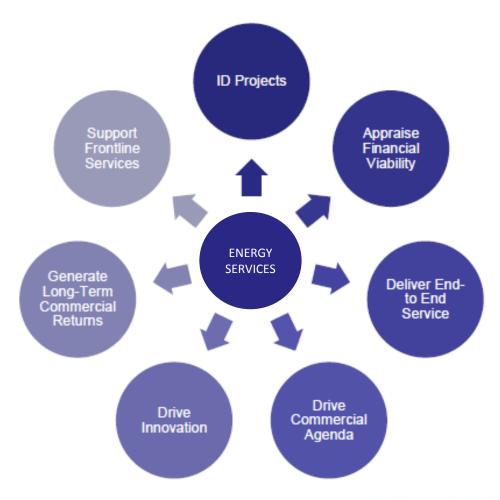
We are managing the delivery of energy projects, programmes and services across the UK.

- Energy and Climate Change Policy
- Renewable Energy
- Smart Technology EEMonitor Prepayment
- Energy Efficiency
- Energy Compliance
- Energy Management
- Customer Services Metering and Billing
- District Heating





Aims and Objectives

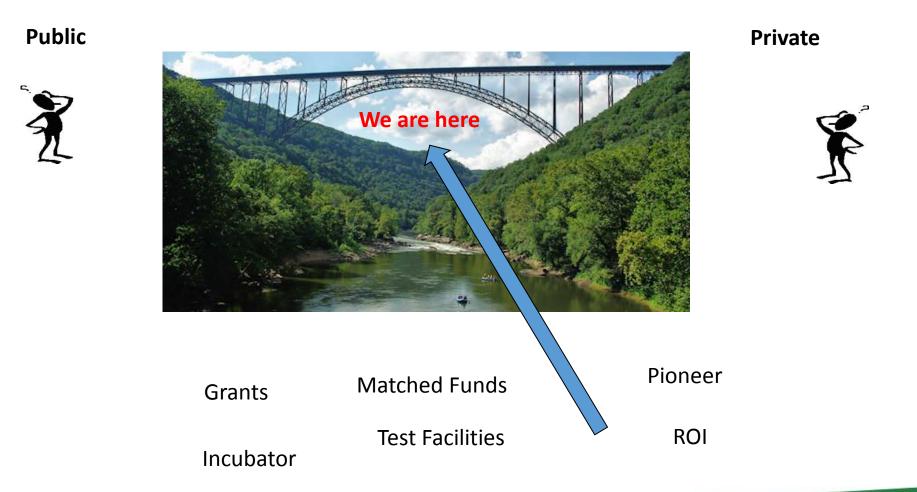


Leading the way to a sustainable, low carbon future through support, collaboration and project delivery





The NCC Bridge

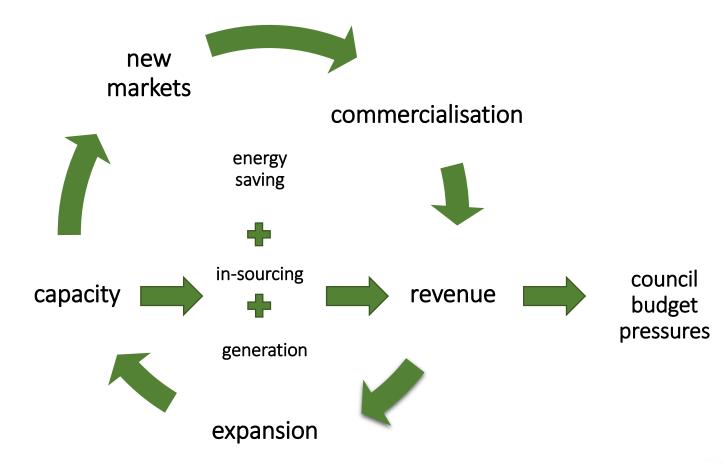


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The NCC Bridge – Delivery model



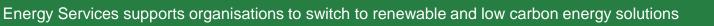
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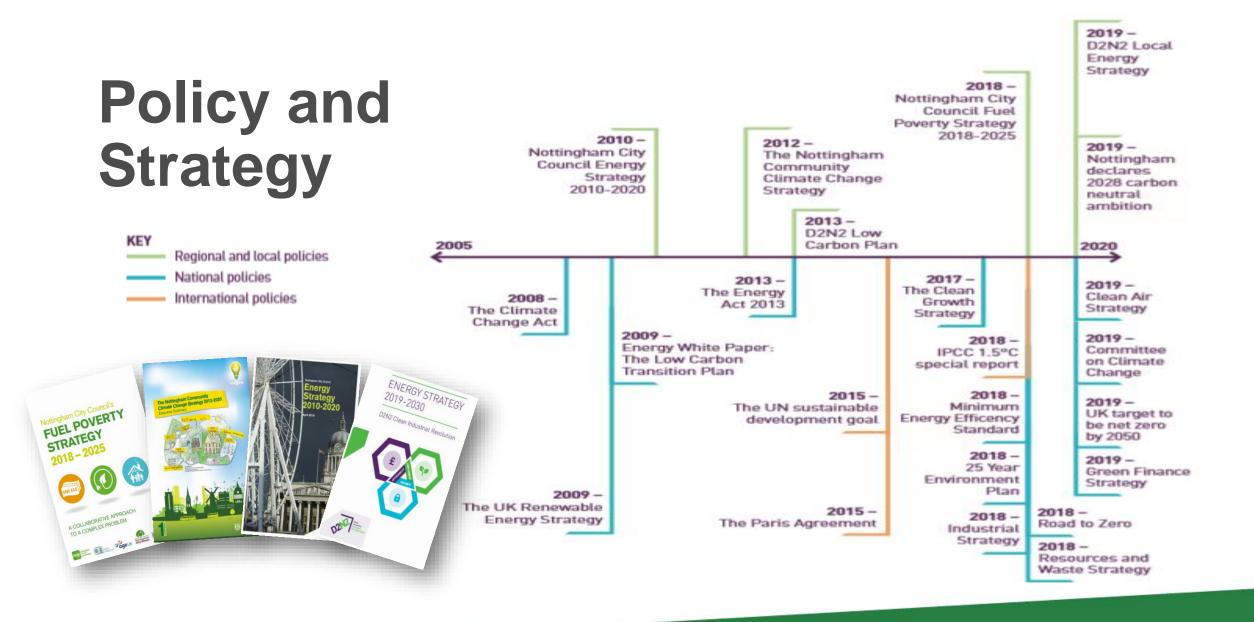
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The NCC Bridge – Delivery Model

- Strategy & Policy clearly defined with ongoing in house development.
- ✓ Commercial Delivery 80%/20% balance, eg:
 - Fuel Cells
 - Solar PV
 - Battery Storage
- ✓ Midlands Energy Hub Status (Local Capacity Support).
- ✓ European Projects/Programmes
 - ➢ V2G
 - Energiesprong
- ✓ Utilities Management
 - Water Self Supply
 - Innovation Gateway
 - EEMonitor



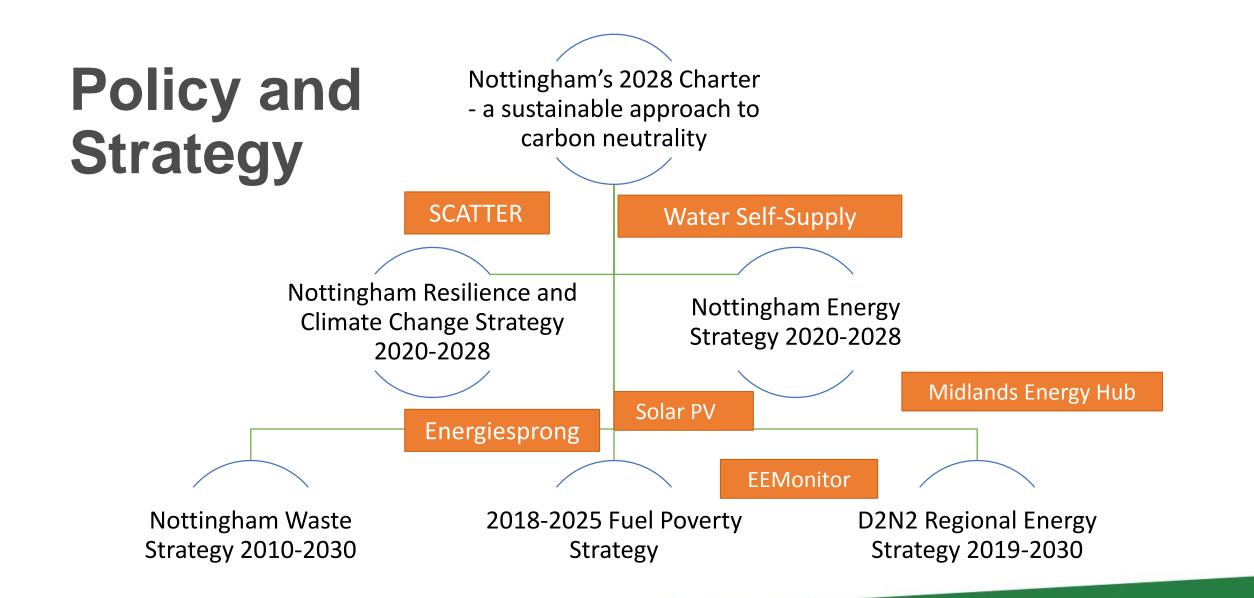


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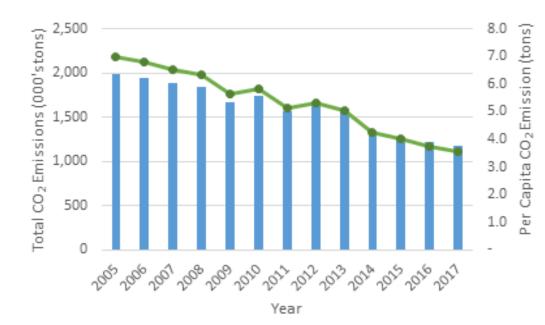


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Current Progress – Fuel Poverty



Fuel Poverty Reduction

Reduction in fuel poverty from 18.4% in 2012 to 12.6% in 2017

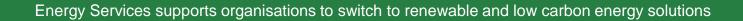
Carbon Reduction

Nottingham surpassed its emission reduction targets by 2020

2017: 41% CO₂ emission reduction (49% per capita) (Compared to 2005 levels)

Success due to numerous actions including carrying out over 40,000 energy efficiency improvements to local homes

English Core City	2012	2013	2014	2015	2016	2017
Sheffield	2	1	2	1	2	1
Leeds	3	2	1	3	3	2
Bristol	1	4	5	2	1	3
Nottingham	7th	5th	3th	8th	5th	4th



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NottinghamEnergyCity CouncilServices

Fuel Poverty Strategy

Targets:

- Eliminate E, F & G EPC rated homes by 2025
- Demonstrate energy efficiency benefits to society, economy and environment
- Education & behavioural change of citizens

Objectives:

- $\circ~$ Empower citizens to be more energy efficient
- Secure funding for pilot schemes
 E.g. Horizon 2020 10 pilot full house retrofits



REDUCE ENERGY BILLS

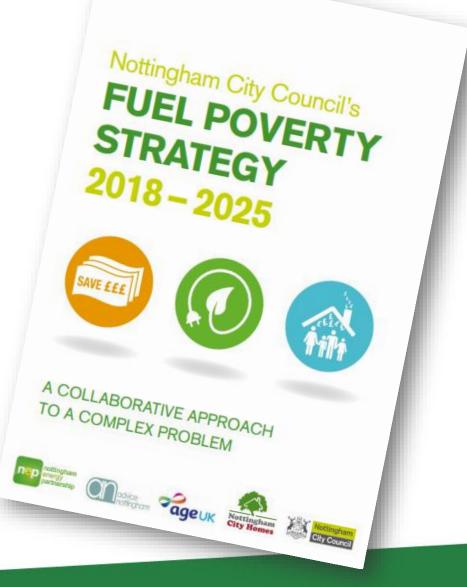


IMPROVE ENERGY EFFICIENCY

MAXIMISE HOUSEHOLD INCOME









Energy

Services

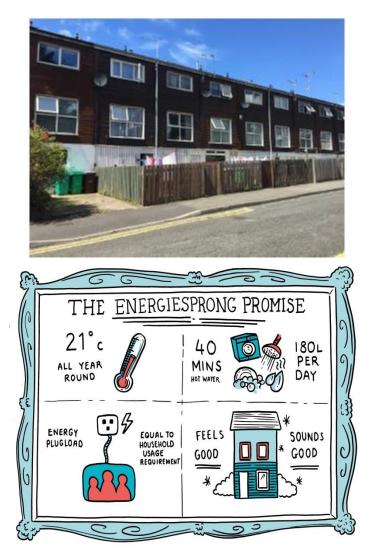
Energiesprong

Desirable, warm, affordable homes for life.

Working in partnership



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 646511





Net Zero Energy – Homes fit for 2050 carbon standards.

4,200 Domestic Installations – Total of 12MWp

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Nottingham is responding to the climate emergency



Sally Longford @SallyLongford - 15h Very pleased that my motion pledging to be #carbonneutral City by 2028 passed unanimously @MyNottingham Council Meeting today. Great support from @XrNottingham



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Carbon Neutrality

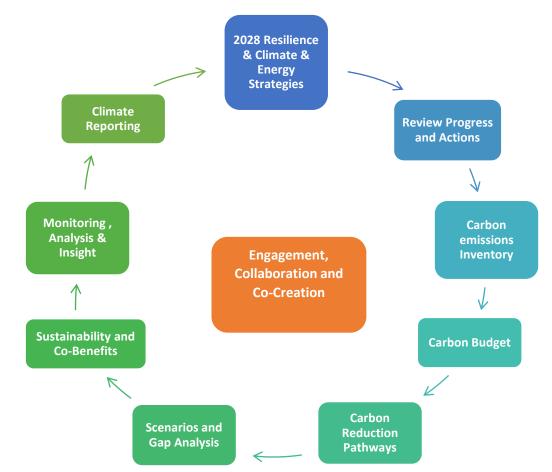
Nottingham is aiming to become a carbon neutral city by 2028, meeting this target by reducing all carbon dioxide emissions from direct and indirect energy use to net-zero.

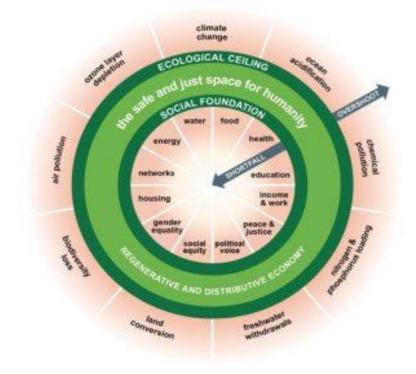






Sustainable Carbon Neutrality





Doughnut economics model https://www.kateraworth.com/doughnut/

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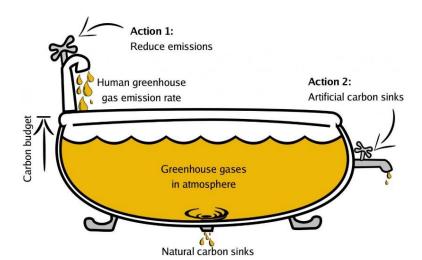
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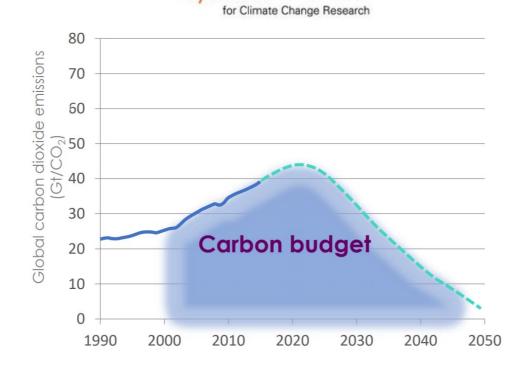
Check Your Carbon Budget: https://carbonbudget.manchester.ac.uk/reports/

Carbon budgets inform policy by:

- Giving an idea of the scale of action required
- Setting a limit to the total cumulative CO₂ emissions to be in line with international goals/targets



Credit: M. May/HZB https://www.eurekalert.org/multimedia/pub/190395.php



Tyndall[®]Centre

Source: Tyndall Centre carbon budget workshop presentation (20th June)

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Priorities

- Clean renewable electricity
- Decarbonising heating and cooling
- Improving the energy efficiency of buildings
- Decarbonising transport
- Reducing demand for energy
- Reducing consumption and waste
- Increasing carbon sinks and capture



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Co-benefits agenda

- Cost Benefits Analysis
- Sustainable approach
- Delivering against key council outcomes

RESPONSIBLE

CONSUMPTION

- Quality of life
- New business models



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15 LIFE ON LAND



Helping Councils Respond to the Climate Emergency



Supporting local authorities to measure greenhouse gas emissions and build carbon reduction plans.

A collaboration between Anthesis Group, Nottingham City Council, BEIS, Greater Manchester Combined Authority and the Tyndall Centre for Climate Research at the University of Manchester.





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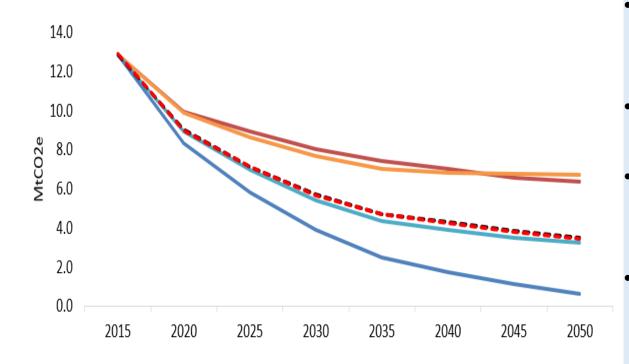


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SCATTER - Setting City Area Targets and Trajectories for Emissions Reduction

- BEIS funded
- Build on initial Excel tool from GMCA and Core Cities usage
- Implement evaluation recommendations
- Made into web-service
- Separate the key functions, inventory/reporting & pathways
- Make accessible, user-friendly, easily updateable and more tailored

SCATTER – Pathways



What will Pathways do?

- Show possible
 trajectories based on
 measures and ambition
- Allow input of your own carbon budget
- Understand how far and fast LA area's ambition will take it
- Engage with decision makers and citizens on the scale of the challenge

What will Pathways not do?

- Provide differing target dates
- Show how to get to your area to zero carbon
- Give the specific interventions needed or which should be put in place

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SCATTER – Access

- Free of Charge for all local authorities
- Pathway tool launching in October 19
- Webinars available for the launch please visit the website for more information: <u>https://scattercities.com</u>

https://www.youtube.com/watch?v=cGqpzjlfr1U

For further information please contact Jonathan Ward, Principal Energy Policy Officer, Nottingham City Council: jonathan.ward@nottinghamcity.gov.uk





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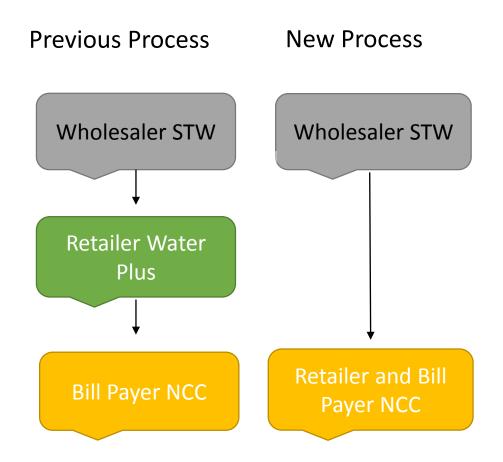
Water self-supply





What's the opportunity?

- De-regulation of commercial water market
- Becoming self-supply licensee
- Billing our own sites
- Financial saving
- > No change to domestic properties





The benefits

Greater control of water utilities

- Removal of third party interference and costs reduced operational costs
- Better customer service
- Greater knowledge of portfolio of meters
- Ability to claim back over spend from previous retailer
- Share best practise knowledge with local authority counterparts to help them on their selfsupply journey







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District Heating



Nottingham District Heating

- Operational since 1972
- >Operated by Enviroenergy since 1998 a wholly-owned trading arm (ESCo) of Nottingham City Council
- \geq 68km of pipework insulated pipework more than any other scheme in the country
- 5,000 domestic dwellings (3,000 social housing tenants) connected for the provision of space heating and hot water
 115 commercial customers
- > Scheme offsets 27,000 tonnes of fossil fuel CO₂ annually
- Scheme diverts 165,000 tonnes waste from landfill annually







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Offer complete package: hardware supply, installation, commissioning, billing service provision

Serving a growing national customer base

Experienced workforce

Established Nottingham based call centre

Flexible solution designed to meet the client's needs

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