

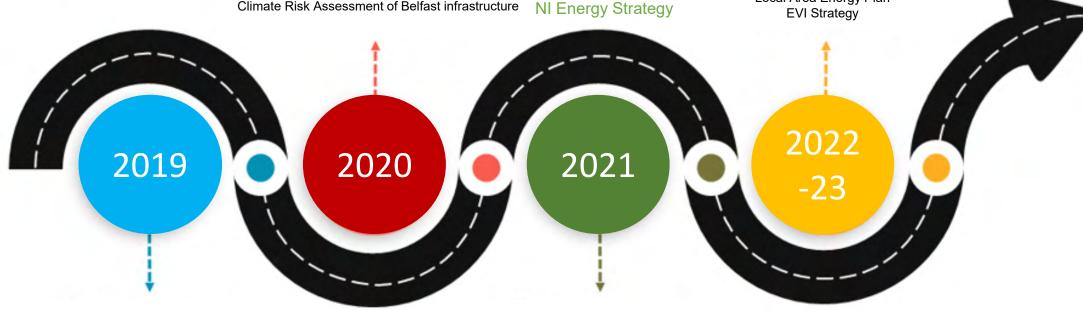
Supporting the transition to an inclusive, net zero-emissions, climate- resilient economy in Belfast Debbie Caldwell, Climate Commissioner, Belfast City Council

Belfast Resilience Strategy

Belfast Climate Commission
Resilience Assessment
Resilience Strategy and Ambitions document
Belfast Net Zero Roadmap
Climate Risk Assessment of Belfast infrastructure

Delivery

Climate and City Resilience Committee
Council GHG baseline & Energy review
Council Climate Risk assessment
Council Climate Action Plan
Council Climate Investment Plan
Local Area Energy Plan



Belfast declared a climate emergency

Resilience and Sustainability Board

COP26

Living With Water in Belfast Carbon Disclosure Project, RTZ and RTR Established a £1m Climate Fund Sustainable Tourism Index NI Climate Change Act Green Growth Strategy

Belfast's Net Zero journey

FUTURE PROOFED CITY

Our governance structure



City wide





Belfast Agenda

A sustainable city shared and loved by all its citizens



Produce



Resilience Strategy

To transition to an inclusive, net zero-emissions, climate resilient economy in a generation





Resilience and Sustainability Board









Our own climate adaption and mitigation plan by 2022



Supported by



Climate and City Resilience Committee



Supported by



Climate Plan Programme Board (BCC Officers)

Approval process



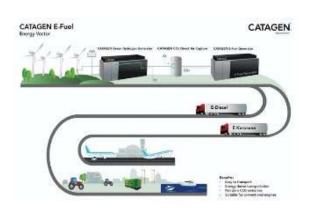
















Green Multi-Modal Mobility



Keeping climate at the top of the agenda

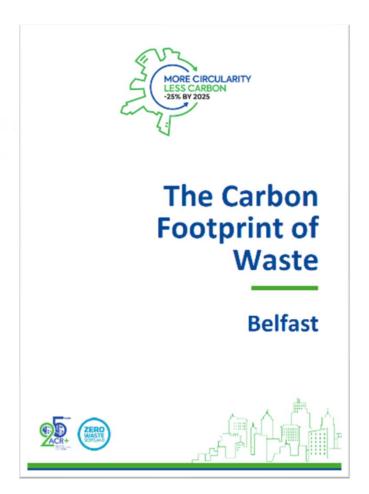


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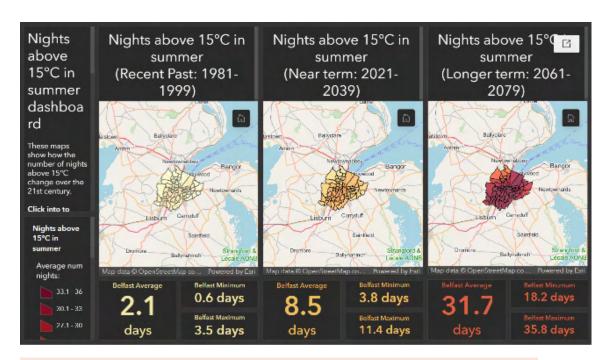


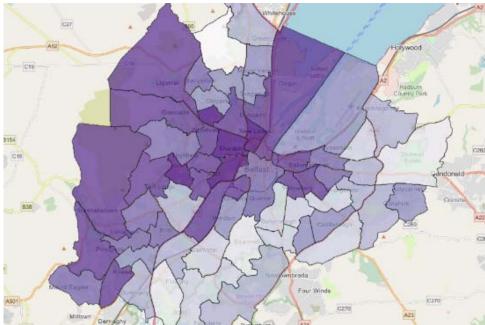


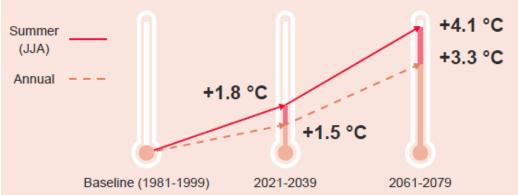


1.5C 14m Tonnes. Belfast's The level of rise 66% by 2025 share of the 42% where we trigger dangerous climate global carbon budget 2020-50 change 80% by 2030 Decline in Belfast's 100% by 2050 emissions 1.5m 2030 since 2000 Tonnes of The year we will carbon per year have used up our emitted by carbon budget Belfast Belfast - the road to















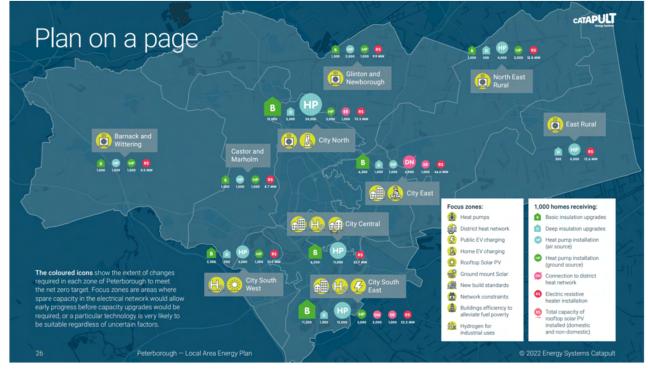
Heat maps for Belfast

LAEP OUTPUTS - EXAMPLES

Local Area Energy Plan for Belfast



Hydrogen opportunity area Domestic rooftop PV focus zone



Compar's Buildings

The makes from the format of the forma

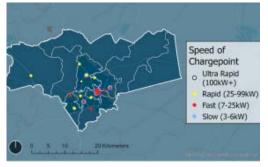






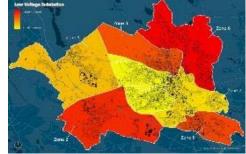
Domestic heat pump focus zone

Heat network focus zone



Parking Fall





Energy network impact

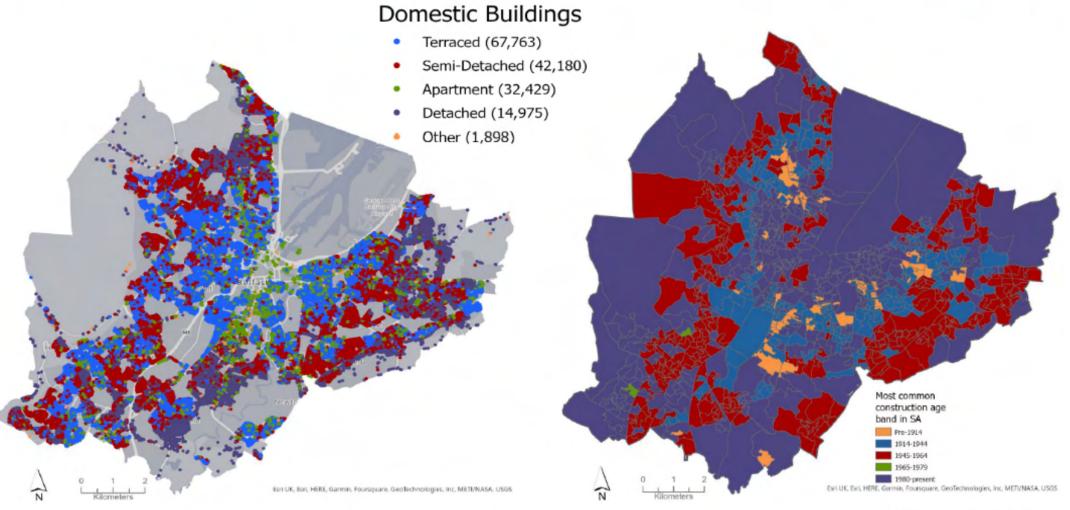
Fabric retrofit focus zone

Large scale renewables opportunity areas

Public EV charging hubs

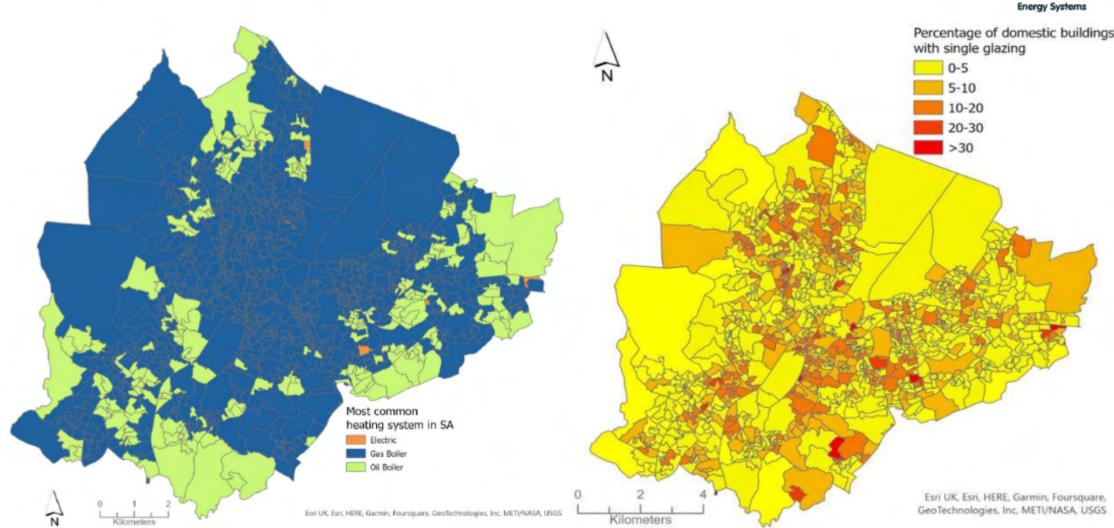
Domestic





Retrofit potential





Transport

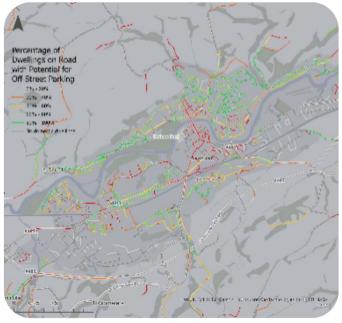
Overview

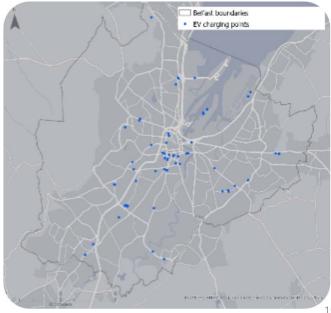
- Electrical demand likely to increase and impact network.
- H2 requirement to further decarbonise buses and trains.
- **Emerging Belfast EV Strategy**
- Translink 80 BEV & 23 H2 vehicles, decarbonise further in line with pledges and commitments

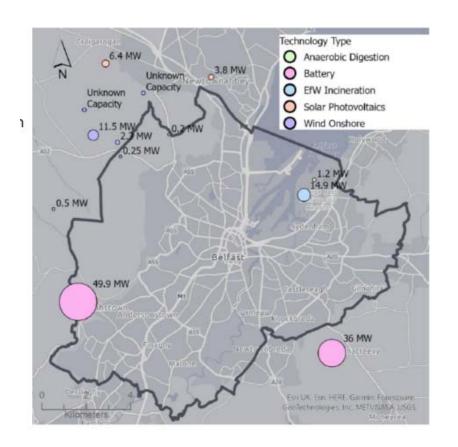
Modelling Focus

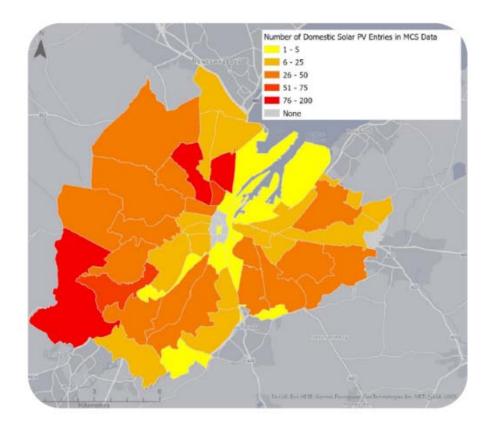
- Number of EVs.
- Align with Translink decarbonisation plans.
- Location of charging points
- Demand profiles based on charging locations











Networks



Overview

 Key part of the energy system and likely to be heavily impacted by decarbonisation

Current Approach / Data

• Data from:





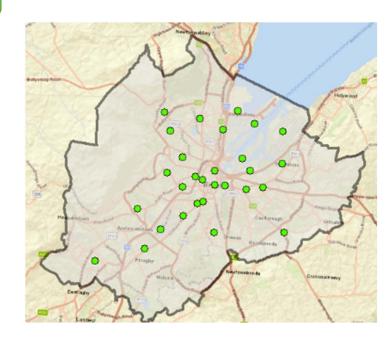
Modelling Focus

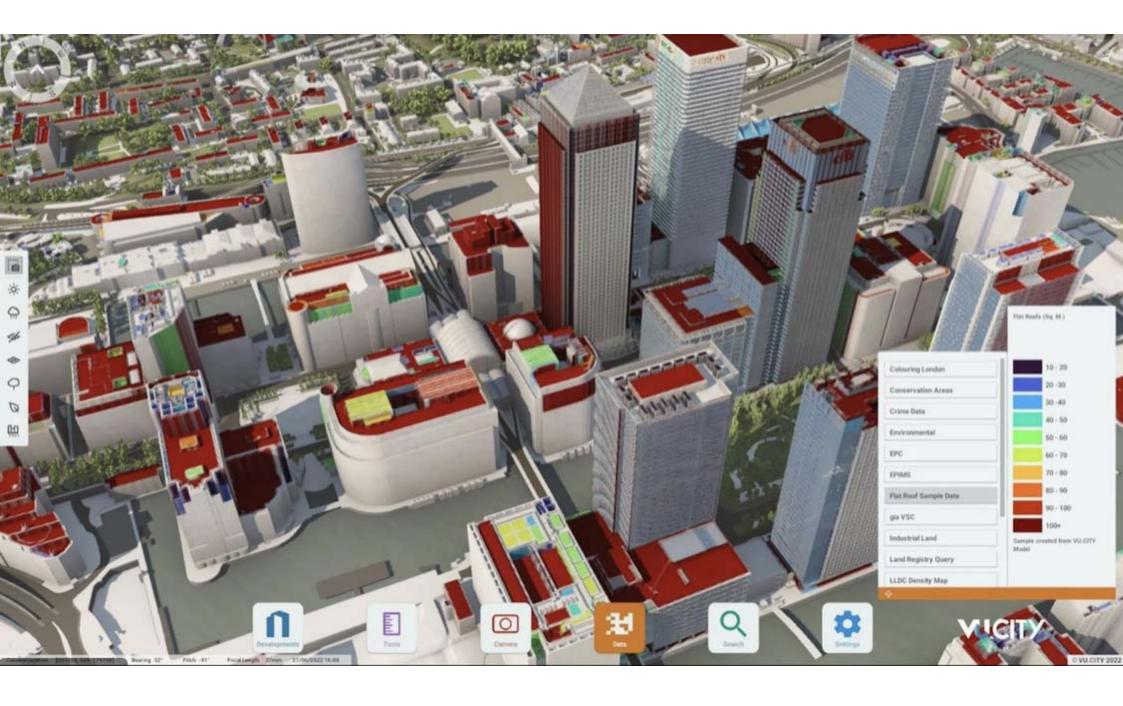
Electricity

- Substation capacity & connections (LV and HV)
- Feeder capacity
- Reinforcement

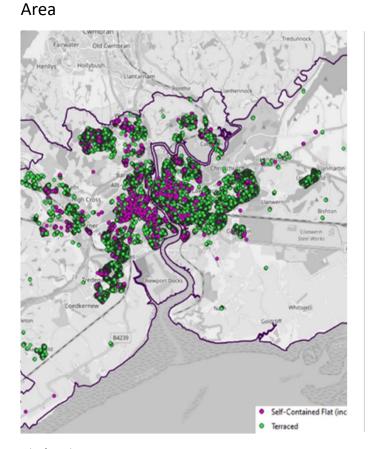
Gas

- Pipe location and material
- Repurposing or decommissioning





EVI – strategy Area Site Technology Model



Site



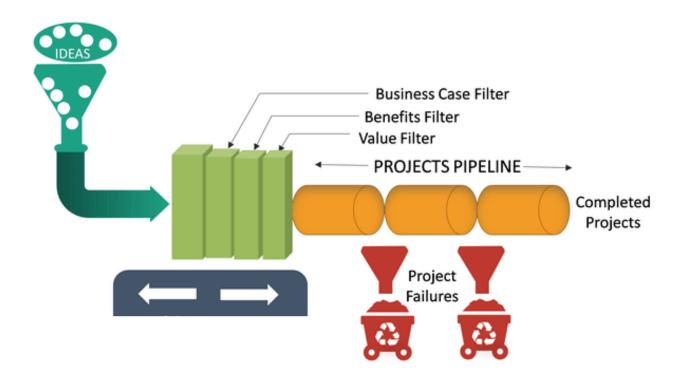
Technology



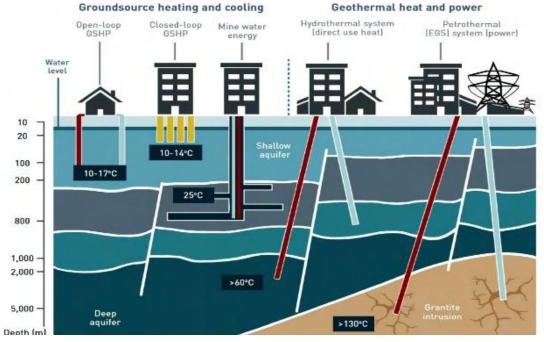
urbanforesight.org

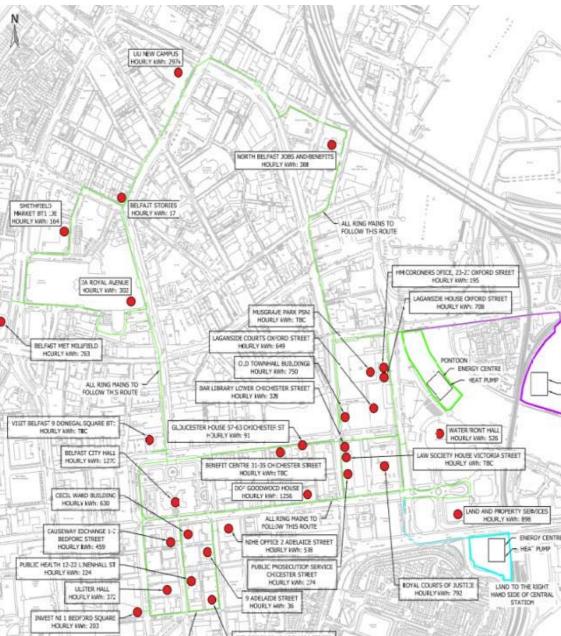
Keeping the issue at the top of the agenda

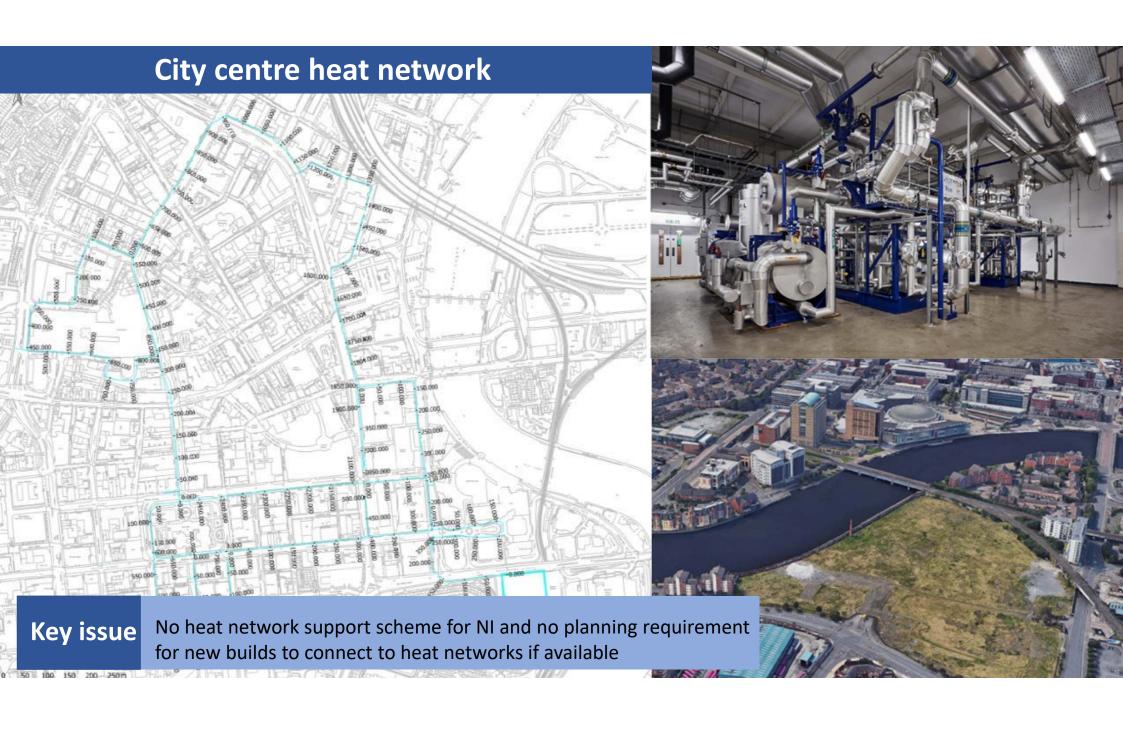
Build a pipeline of projects











Keeping the issue at the top of the agenda

Strengthen coordination, collaboration, outreach





Belfast retrofit hub

Belfast retrofit hub





Greening Our Existing Homes

National retrofit strategy

A consultative document













Belfast retrofit hub

Retrofit Hub meeting Sep 22 Retrofit Hub meeting Dec 22

Retrofit Hub meeting Mar 22

Roundtable 1 Supply Chain Roundtable 4
Awareness

Roundtable 8
Whole house working

Roundtable 2 Standards Roundtable 5 Learning

Roundtable 7
Place based approach

Roundtable 3 Skills Roundtable 6 Skills

Keeping the issue at the top of the agenda

Engaging financial institutions and the investment community



 $\textbf{£2.2bn} \hspace{0.1cm} \mathsf{per} \hspace{0.1cm} \mathsf{year} \hspace{0.1cm} \mathsf{to} \hspace{0.1cm} \mathsf{decarbonise} \hspace{0.1cm} \mathsf{Northern} \hspace{0.1cm} \mathsf{Ireland}$

 $\textbf{£2.5bn} \hspace{0.1cm} \textbf{to decarbonise housing and transport in Belfast}$

















- 1. Grants for retrofit and heat networks
- 2. Seed funding for project development
- 3. Behavioural change
- 4. Capacity to engage across multiple sectors to ensure a whole system approach

