



CATAPULT
Energy Systems

Belfast

**CLIMATE
ACTION**

Belfast Net Zero Pathfinders
Aug 24

Climate and City Resilience Committee

www.belfastcity.gov.uk/climate-change



LOCAL AREA ENERGY PLAN



Belfast City Council

CATAPULT Energy Systems



March 2024



Belfast

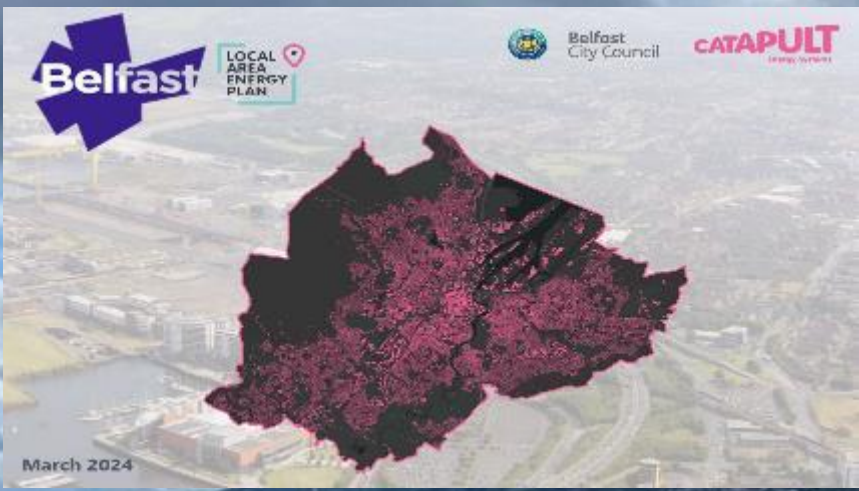
Queen's Island Decarbonisation Plan

CATAPULT Energy Systems



Belfast City Council







Retrofit



District heat network



Rooftop solar PV

Priority decarbonisation projects



Households on oil transition to low carbon heating



Solar car port with EV charging

Retrofit Hub

Heat network – Market engagement

Heat mapping, masterplanning and feasibility

UP2030 project

1st June 2024

31st May 2024



Belfast Net Zero Pathfinder de-risking project (solar / heat network)

Form LAEP delivery group and a data Group

Use the LAEP to build a pipeline of net-zero aligned investments

Measure the decarbonisation and social co-benefits



Engage citizens

The Project will de-risk two of the priority projects identified in the city's **Local Area Energy Plan** and the **Decarbonisation Plan for Queens Island** area of Belfast : 1) **heat network**, and 2) **a solar PV project**.

Key outputs

Project assessment – July

Market readiness report - November

Business model analysis - January

Legal / commercial arrangements – May

Opportunities assessment – April

Impact assessment – June

Final report - June

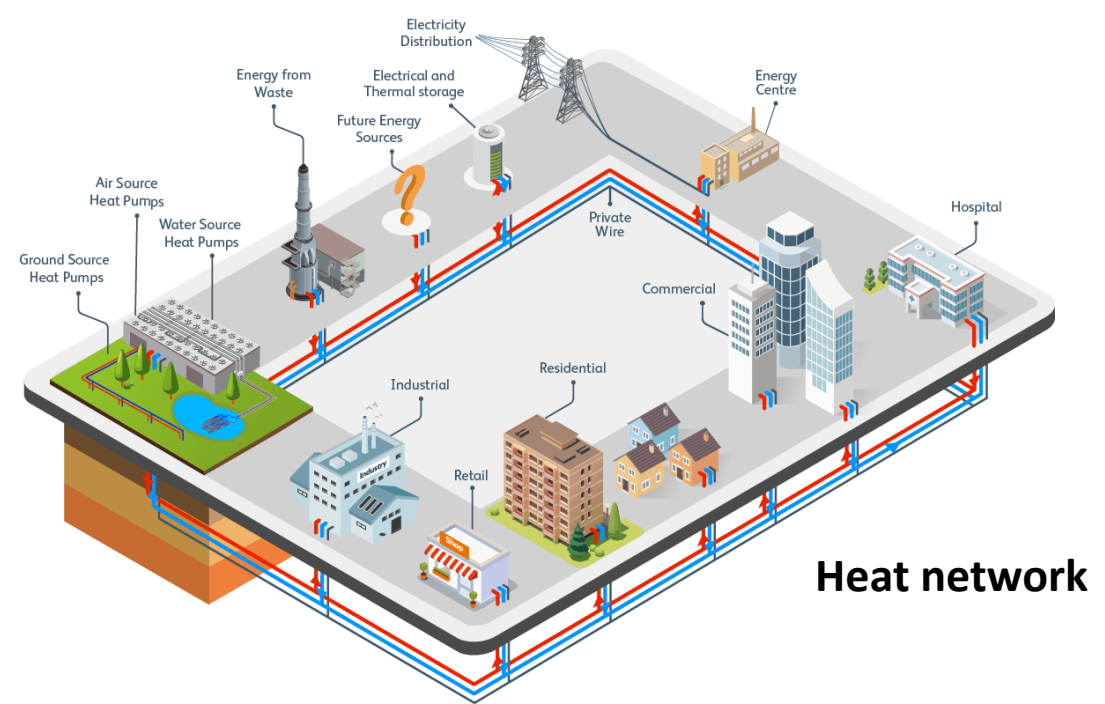


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Project components

- 1. Project Assessment** and analysis of non-technical barriers to delivery
- 2. Market analysis** - assess the maturity / readiness of market actors (potential off-takers, investors etc) to engage and deliver low-carbon projects
3. Develop **capacity** of key stakeholders including Council to take forward LAEP / QIDP outputs
- 4. Commercial viability and routes to finance**
 - Business model analysis (value and finance flows)
 - Define optimum legal and commercial arrangements for Belfast City Council (BCC) to catalyse investment
5. Identify opportunities for downstream investments to **upskill and empower excluded groups and communities** through consultation and engagement
6. Assess **economic, environmental and social impacts** of the interventions



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Project Assessment

Market analysis

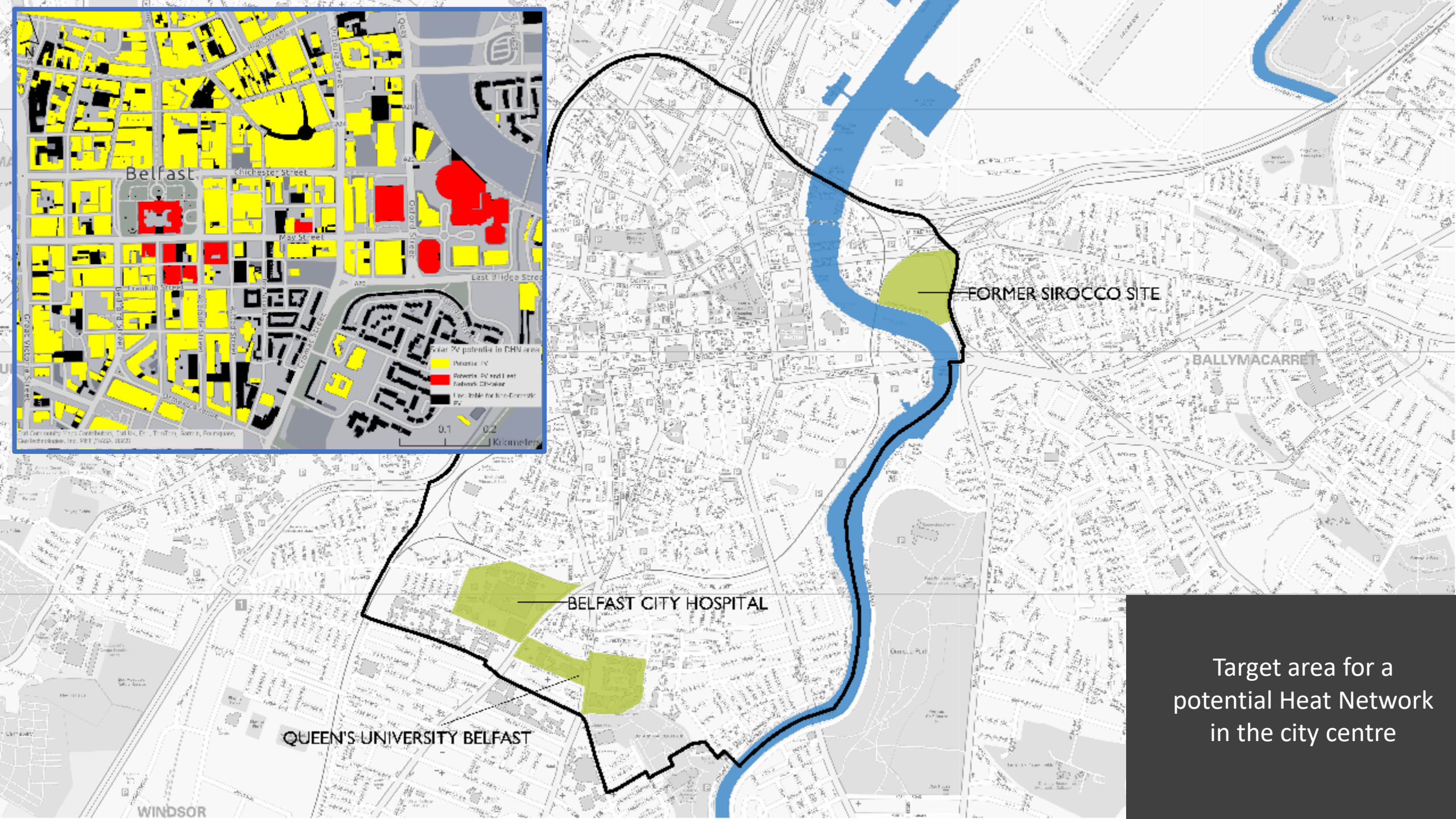
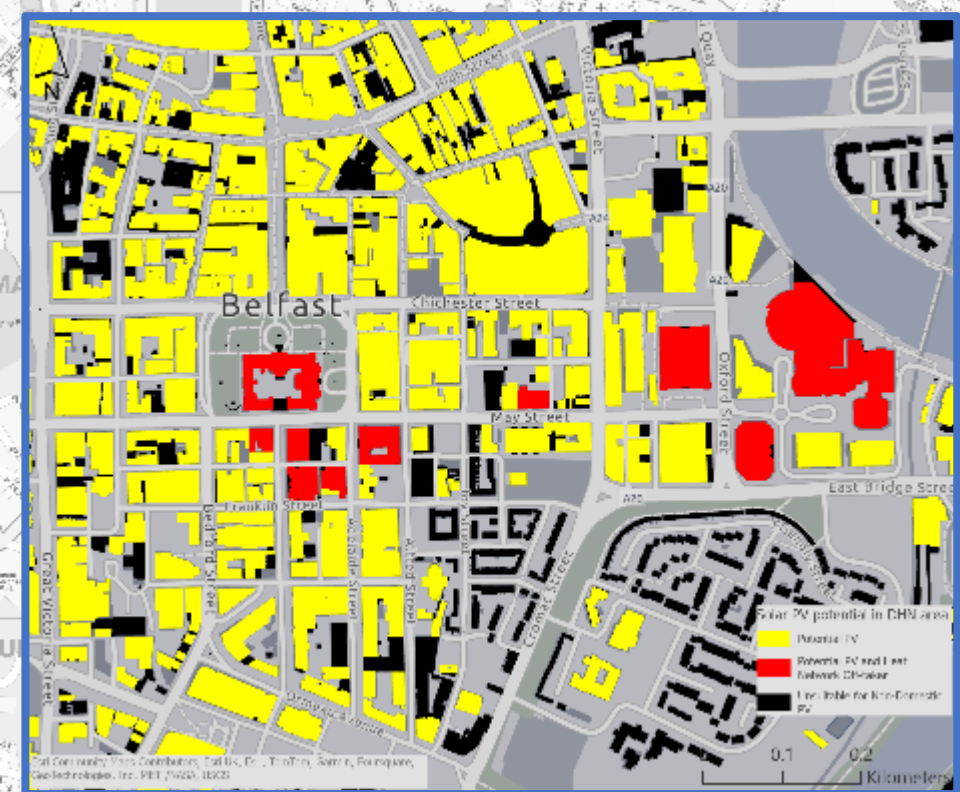
Capacity development

Business model analysis

Optimum legal and commercial arrangements

Upskilling and empowering excluded groups and communities

Assessment of economic, environmental and social impacts

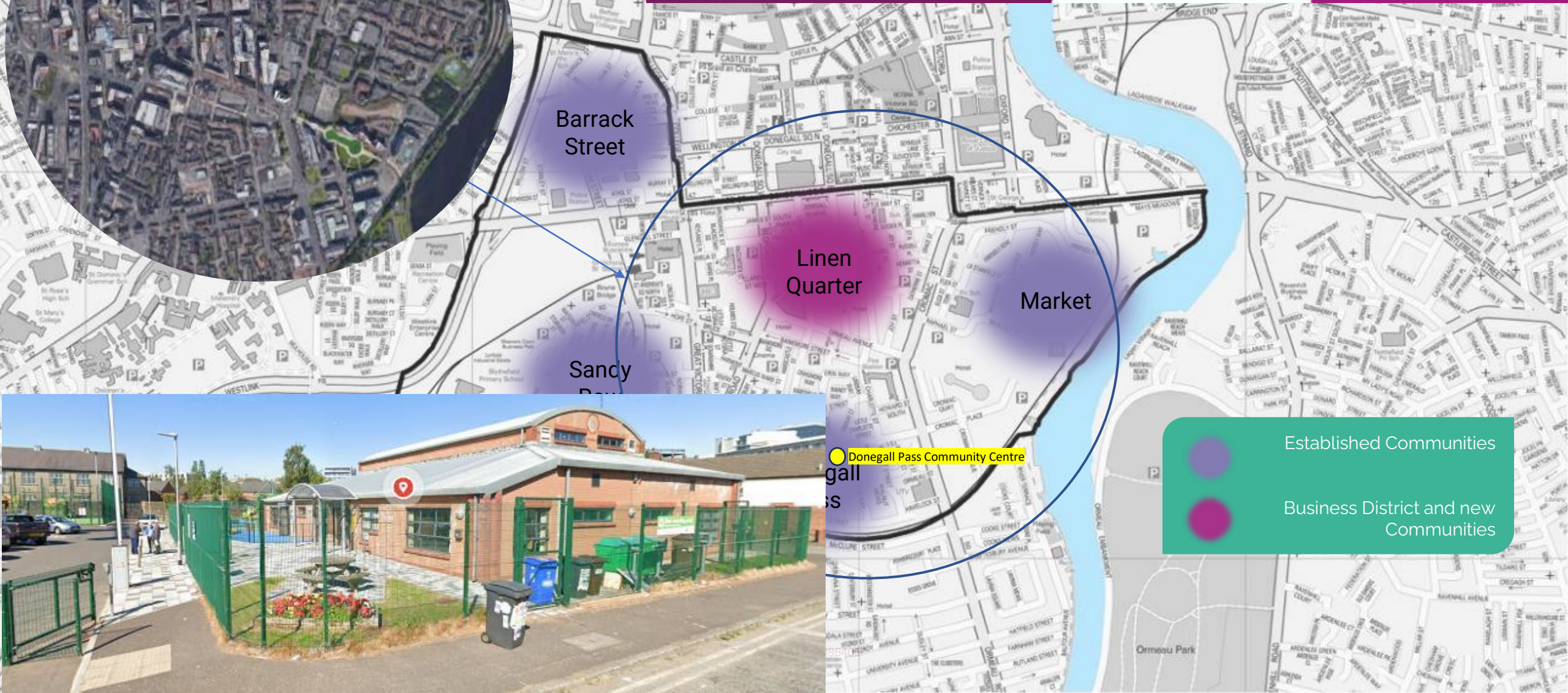


Target area for a potential Heat Network in the city centre



UP2030 Belfast

Creating net-zero
neighbourhoods in Belfast



Barrack Street

Sandy Row

Linen Quarter

Market

Donegal Pass Community Centre

- Established Communities
- Business District and new Communities



Belfast

Queen's Island Decarbonisation Plan

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Queen's Island

Net Zero Vision

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Energy Strategy





Solar car port Odyssey

Heat network

Solar car port Catalyst

Option to extend network to future potential waste heat source (Global Innovation Institute)

Option to extend/replicate ambient loop for existing Catalyst buildings

Option to supply domestic hot water, heating or cooling to future site developments

Support development of Net Zero Technology Park

Next steps

Inception phase

(Procurement, M&E system,
Technical Assistance – Involve /
SPACE)

Project Assessment and analysis of non- technical barriers to delivery

Market analysis

Assess the maturity / readiness of
market actors (potential off-
takers, investors etc) to engage
and deliver low-carbon projects

June 24

July 24

Nov 24

Integration with ongoing work on solar, Heat network, UP2030, Retrofit Hub

