

Market Transformation in Practice: A GHNF Funded Project Showcase



Please mute microphones to limit disruption



If you are not speaking, please turn off webcams to improve video quality



Please ask questions using the Q&A functionality



This webinar is being recorded and the slides will be distributed afterwards

Session	Speaker
Introduction and MTC Overview	Ken Hunnisett and Lauren Bright, Triple Point
Scheme Overview	John Allison, Department for Energy Security and Net Zero
Lancaster University	Anna Cockman, Lancaster University
Plymouth Civic District Energy Scheme	Jonathan Selman, Plymouth City Council
Bradford Energy Network	Nicholas Johnston, 1Energy
Live Q&A	
Closing Remarks & Thank You	Ken Hunnisett, Triple Point

Market Transformation Commitments Overview

Ken Hunnisett

Triple Point Heat Networks Investment Management

“The GHNF will contribute towards market transformations across the investment landscape and supply chain that will better prepare the heat network sector for further decarbonisation.”

Each GHNF funded project must make a proportionate contribution to this goal.



Applicants must commit to the GHN Market Transformation Commitments

Projects commitments will enable growth within the supply chain, help to address the heat network sector skills gap and allow the sector to share in learnings and innovation across a portfolio of projects

Infrastructure

- Fair and open procurements
- Engaging local communities and supply chains
- Adding to a reliable and resilient energy system

Skills

- Identify opportunities to address the sector skills gap
- Fair and open recruitment
- Stimulating new jobs in the UK and training opportunities

Innovation

- Identify ways for projects to enable investments in research and development
- Sharing learnings and innovations with the wider market



Why is it important to us?

Reporting on embodied carbon levels helps us set benchmarks and track progress. It enables us to collate data across different regions and stages of the supply chain, identify best practices, and work towards achieving net-zero carbon goals.

Noticeboard

This noticeboard provides the opportunity for organisations to post, at no cost, notifications of events and requests for collaboration on heat network-related projects.

Organisations who have signed up for alerts will automatically receive these requests to their inbox.

Please note that no assessments are conducted on any entries



[MORE INFORMATION](#)

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Birkenhead Heat Network – Preliminary Market Engagement

Urgency: Low (within 48 hours)

The project comprises development of a new heat network serving a mix of buildings including new build residential, existing residential, new build commercial and existing commercial. The project form...

[READ MORE](#) →

Leeds Zonal Scale Heat Network

Urgency: Low (within 48 hours)

Leeds City Council intend to go out to procurement in the coming months, for a delivery partner for a zonal scale heat network, focused firstly on delivering a scheme in the South Bank area of the cit...

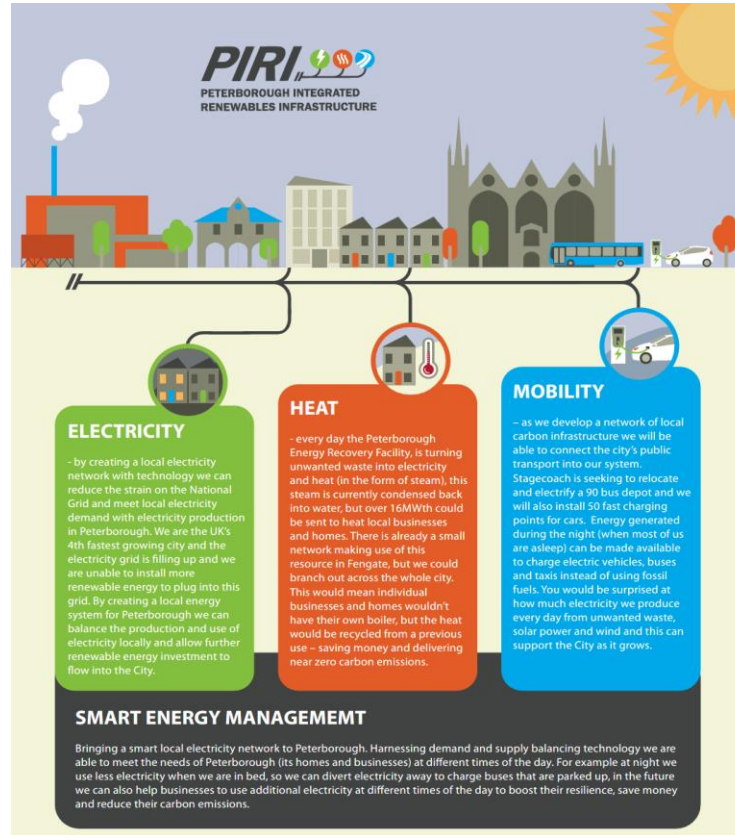
[READ MORE](#) →

Plymouth Heat Network

Urgency: Low (within 48 hours)

Plymouth City Council (PCC) has been creating the conditions for the roll out of heat networks for many years, including through strong planning policies, securing future-proofed developments, and dev...

[READ MORE](#) →



PIRI procurement timeline

Engagement with stakeholders and off-takers

Continuing

Soft Market Test

Underway

Launch of Procurement Process

November 2024

Development Agreement with preferred bidder

Summer 2025

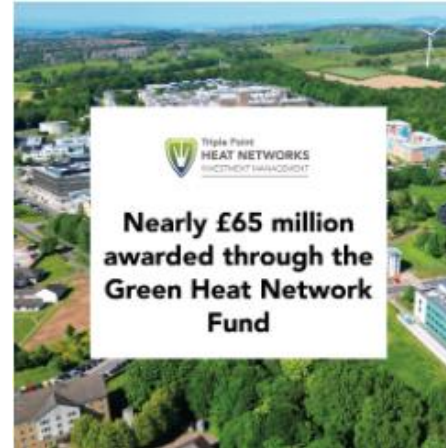


Triple Point HEAT NETWORKS

INVESTMENT MANAGEMENT

GHN Funded Projects

- 1 Hull District Heat Network
Hull, East Riding of Yorkshire
- 2 Rotherham Energy Network
Rotherham, South Yorkshire
- 3 Bradford Energy Network
Bradford, West Yorkshire
- 4 Peterborough Integrated Renewables Infrastructure (PIRI)
Peterborough, Cambridgeshire
- 5 Pudding Mill Lane
Stratford, East London
- 6 Goole District Energy Network
Goole, East Riding of Yorkshire
- 7 Huddersfield District Energy Network
Huddersfield, West Yorkshire
- 8 Langarth Deep Geothermal Heat Network
Cornwall
- 9 Civic District Energy Scheme
Plymouth, Devon
- 10 Whiteknights Energy Centre Phase 1 Decarbonisation
Reading, Berkshire
- 11 Handforth Garden Village Heat Network
Handforth, Cheshire
- 12 Old Oak and Park Royal Development Corporation (OPDC)
West London
- 13 Chilton Woods
Westland Heath, Suffolk
- 14 Watford Community Housing
Watford, South-West Hertfordshire
- 15 Lancaster University
Lancaster, Lancashire
- 16 Kilburn District Energy Scheme
Brent, North West London
- 17 Greenwich Peninsula
Greenwich, London
- 18 Hull East Heat Network
Hull, East Riding of Yorkshire
- 19 Exeter Energy Network
Exeter, Devon
- 20 Bolton District Heating Network
Bolton, Greater Manchester
- 21 Leeds South Bank
Leeds, West Yorkshire
- 22 Brent Cross
London Borough of Barnet
- 23 Clapham Park
Lambeth, South London
- 24 Barnsley
Barnsley, South Yorkshire
- 25 Hammersmith, West King Street
Hammersmith, West London



Triple Point
HEAT NETWORKS
INVESTMENT MANAGEMENT

AECOM



Amberside
Advisors



ASTEROS



Gemserve



Lux Nova Partner
clean energy lawyers



TriplePoint

All our GHNH Funded Projects will be sharing their MTC commitments

Future events will include online webinars as well as in person events

MTC commitments will be tracked by DESNZ to ensure learnings and outcomes are shared with industry

In person events will be arranged geographically to encourage local supply chains



Scheme Overview

John Allison

Department for Energy Security & Net Zero



Department for
Energy Security
& Net Zero

18 November 2024

Green Heat Network Fund

Scheme overview

John Allison
Deputy Director, Heat Networks Delivery

Green Heat Network Fund

- The Green Heat Network Fund (GHNF) provides funding to develop new and existing low carbon heat networks across England.
- Funding is available for a range of decarbonisation technologies such as large heat pumps, energy from waste, geothermal and recovered heat.
- Applications are welcome from public, private and third sector organisations. Round 9 will be opening soon and the guidance will be available at: <https://www.gov.uk/government/publications/green-heat-network-fund-ghnf>
- The scheme is being delivered by our delivery Partner, Triple Point Heat Networks Investment Management.
- All projects applying for GHNF funding are also encouraged to consider discussing their financing needs with the National Wealth Fund (formerly the UK Infrastructure Bank) alongside other sources of capital. The GHNF relationship management team can put you in contact with them.

Green Heat Network Fund: Objectives

GHNH Project Vision

“To incentivise heat network market transition to low carbon heat sources via targeted financial support, that will help stimulate the increased deployment of low carbon technologies at scale”.

Achieve carbon savings and decreases in carbon intensity of heat supplied

Increase the total amount of low-carbon heat utilisation in heat networks

Contribute towards market transformations across the investment landscape and supply chain that will better prepare the heat network sector for further decarbonisation

Green Heat Network Fund: Progress so far

- The fund opened for applications in March 2022 and is currently scheduled to run until 2028.
- It was originally launched with a budget of £288m and was intended to run until 2025. However, due to demand additional capital funding of £485m was announced in December 2023 and the scheme was extended until 2027/28.
- 28 grant awards totalling over £348m have been announced to date. Details of these awards can be found on the website of the GHN Fund delivery partner, Triple Point Heat Networks.
- 25 of these projects are shown on the map opposite. In addition to these, awards to projects in Birkenhead, Newhurst, near Loughborough, and Welborne Garden Village in Hampshire were recently announced.

GHN Funded Projects

- Hull District Heat Network**
Hull, East Riding of Yorkshire
- Rotherham Energy Network**
Rotherham, South Yorkshire
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Bradford, West Yorkshire
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- Lancaster University**
Lancaster, Lancashire
- Kilburn District Energy Scheme**
Brent, North West London
- Greenwich Peninsula**
Greenwich, London
- Hull East Heat Network**
Hull, East Riding of Yorkshire
- Exeter Energy Network**
Exeter, Devon
- Bolton District Heating Network**
Bolton, Greater Manchester
- Leeds South Bank**
Leeds, West Yorkshire
- Brent Cross**
London Borough of Barnet
- Clapham Park**
Lambeth, South London
- Barnsley**
Barnsley, South Yorkshire
- Hammersmith, West King Street**
Hammersmith, West London



Market Transformation Commitments

- To deliver Net Zero it is estimated that the Heat Network sector's supply chain capacity and capability needs to grow at an annual rate of greater than ten times the current activity in the next ten years.
- To help spur growth, applicants to the GHNF must sign up to Market Transformation Commitments (MTCs). These oblige all GHNF funding recipients to publish up to date and accurate information about their projects and publicly commit to:
 - open procurement
 - the growth of the supply chain
 - job creation
 - skills development
 - creating social value
- Projects applying to the GHNF with a capex of £15m or more are also required to set out what they plan to do with GHNF funding to deliver the aims of the MTCs. Their plans are considered as part of the deliverability assessment of the application.
- MTC commitments are included as part of the GHNF grant funding agreements and their delivery is monitored alongside other project progress.
- Detailed information on MTCs can be found in the GHNF guidance on how to apply:
<https://www.gov.uk/government/publications/green-heat-network-fund-ghnf>

Thank you

Lancaster University Heat Network

Anna Cockman

Lancaster University



Triple Point
HEAT NETWORKS
INVESTMENT MANAGEMENT



Net Zero Infrastructure Project Market Transformation Commitments

Monday 18th November 2024

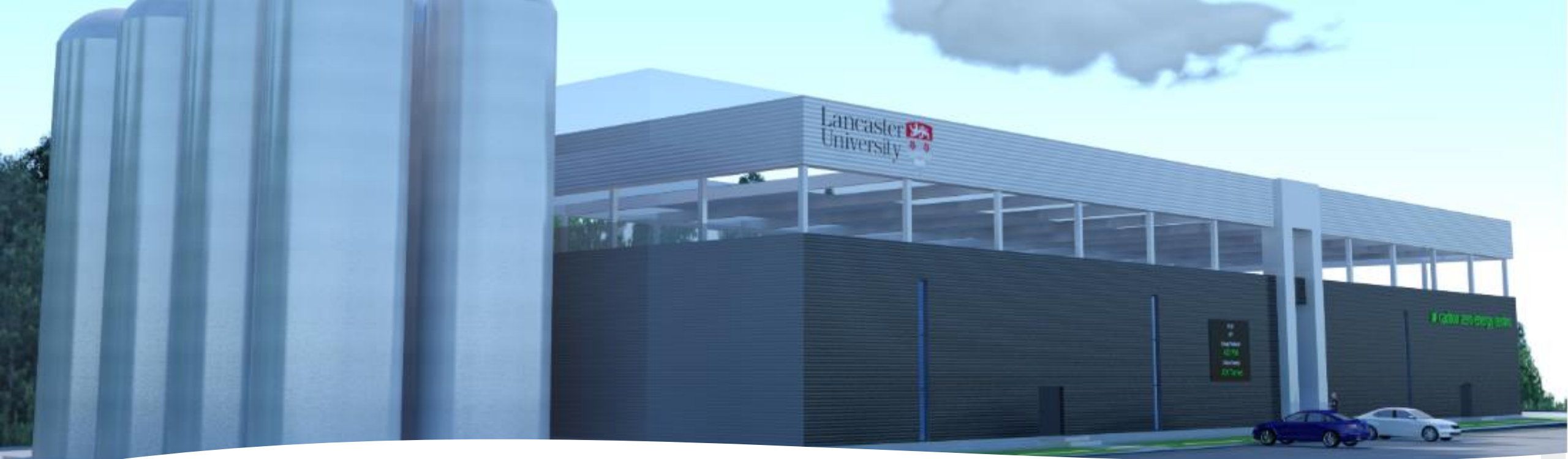
Anna Cockman
Head of Estate Development (Project Delivery)

AECOM

VITAL
ENERGI

What is the project?





Net Zero Energy Centre

- Construction of a new low carbon energy centre in Autumn 2024
- State-of-the-art heat pump technology to generate a projected 39-Gigawatt hours (GWh) of low carbon heat, enough to heat 95 per cent of the buildings on campus.



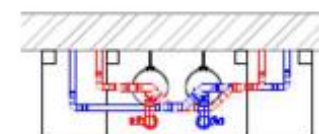


- | | |
|---|--|
| ■ District Heated | ■ LHH & Medical Centre |
| ■ LU - To Be Connected To DHN | ■ Exclusions |
| ■ UPP - To Be | |

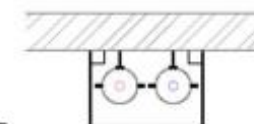




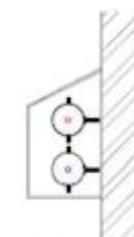
IMAGE 9
HOUSE 9, EXAMPLE OF BOXED IN
F&R RISER PIPEWORK FROM
BURIED DH TO ROOF LEVEL. 4No.
HIJ CONNECTIONS TO BRANCH
OF MAIN RISER. PIPEWORK TO
PENETRATE PERIMETER WALL
WITH ISOLATION VALVES
ADJACENT TO NEW HIJ'S.



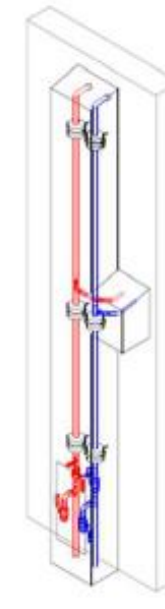
TYPICAL TOP OF RIVER DETAIL
SCALE 1:10



TYPICAL RIVER ENCASUREMENT DETAIL
SCALE 1/12



TYPICAL LATERAL ENCASUREMENT DETAIL
SCALE 1:10



**TYPICAL RISER PIPING WITH MULTIPLE
CONNECTIONS
& ENCUMBERMENT DETAIL
NTS**





31 Plate Heat Exchangers



170 Heat Interface Units

Enabling
Works

- Tree Removal: Nov 2024
- Gas main relocation: Nov 2024

Net Zero
Energy Centre

- Site establishment: mid Nov 2024
- Site strip: Jan 2025-Feb 2025
- Construction: Feb 2025-Nov 2026

District Heat
Network

- Inground pipework installation: Nov 2024-Dec 2025
- Building connections: Mar 2025-Nov 2026
- Energy Centre 1 works: Spring/Summer 2025

Key Procurement Events

- Contractor procurement process: Heat Exchange Network, Contracts Finder (Gov.UK), InTend, social media
- 14 Expressions of Interest received
- All bidders offered engagement meetings and 12 took up the offer
- 4 contractors invited to submit a tender and all were invited to attend a site visit and Q&A session with the project team
- The winning contractor (Vital Energi) is procuring their supply chain in compliance with the NEC4 option C open book process

Promotion



- In November 2023, the University announced it's GHNF award on its website, X (Twitter), LinkedIn and Facebook
- Further Lancaster University social media posts in May 2024 resulted in 100,000 impressions and 2,000 engagements (reactions, comments, shares and saves).
- Vital Energi posted on social media announcing new contracts with Lancaster University, resulting in 15,098 impressions, 3031 clicks, 256 likes, 14 shares and 15 comments.
- Construction process to be documented using timelapse camera, creating further content for social media and internet coverage.

Heat Network Innovation

- Pioneering use of 2-stage air and water heat pump system. Leverages both air and water sources in series, utilises the benefits of different refrigerants for heat extraction; improving efficiency compared to single source HPs.
- Lancaster University's mix of energy technologies (wind turbine, PV array) will contribute to providing power directly to run the heat pumps resulting in improved efficiency, reduced grid electricity consumption and reduced carbon emissions.
- Integration of existing DHN (60 years old) with new low temperature network leading to development of advanced technologies e.g. HIUs, intelligent controls, hybrid heat pumps to optimise performance across networks with varying operating temperatures.
- Integration of new and old DHN showcases ability to blend traditional and new technologies together
- Adoption of chemical free water treatment of the DHN (approach not yet established in UK)

Embodied Carbon reporting

- Approach to align with PAS 2080:2030 guidance for carbon management in infrastructure
- All suppliers are requested to supply their WLCA data
- Carbon Management Plan (reduce whole-life greenhouse gas and GHNF carbon targets)
- OneClickLCA software used to model and measure embodied carbon
- Mitigation of supply chain limitations proposed use of proxy data or industry average where precise data is unavailable

Local economic benefits – skills and jobs

- Net Zero Energy Centre: research hub and centre of excellence for heat network decarbonisation
- Interdisciplinary academic research opportunities; benefits realised from real-world application as a living lab
- AECOM engineers (Apprentice and Graduate) have spent combined total of 472 work days (until October 2024) working across broad range of disciplines (QS, Energy Eng, Mech Eng, Elec Eng, Architect, Structural Eng, Civil Eng, Planning Advisor, Fire Eng, Project Manager)
- Student projects, placements, courses

Local economic benefits – skills and jobs

- Lancaster University Energy Infrastructure group – compiled of staff from academia, research + enterprise services and Estates:
 - Promotion of the new Net Zero Energy Centre to local community – schools, colleges, other universities
 - Developing the campus energy model
 - Display screens to promote the benefits of DHN
 - Energy champions
 - Morecambe Bay curriculum (Eden North)
 - Annual conference



What are Vital doing?



Net Zero
Apprenticeship
programme



Graduate scheme



Growing
the green
workforce



Climate Education

Career &
aspirations



Work
placements

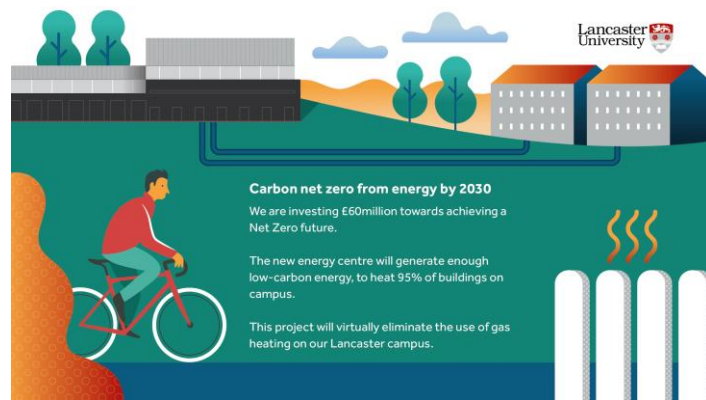


Energy solutions for our future

VITAL
ENERGI

Local economic benefits – skills and jobs

- Vital Energi promoting two new training courses designed to close the skills gap in the renewable energy sector (BESA Group Academy):
 - Heat Networks Foundation Course
 - Heat Networks Installation and Maintenance Course
- Early career pathways – apprenticeships at Vital Energi which lead to qualification to work in the trade and improve understanding of the renewable energy industry.
- Vital Energi investment in their training academy (£2M), apprenticeship programme (£1.8M)
- Lancaster University and Vital Energi will collaborate to provide schemes within FE and LU to deliver student placements, student projects, shadowing opportunities



Thank you for
listening

- Any questions or feedback?

Plymouth Civic District Energy Scheme

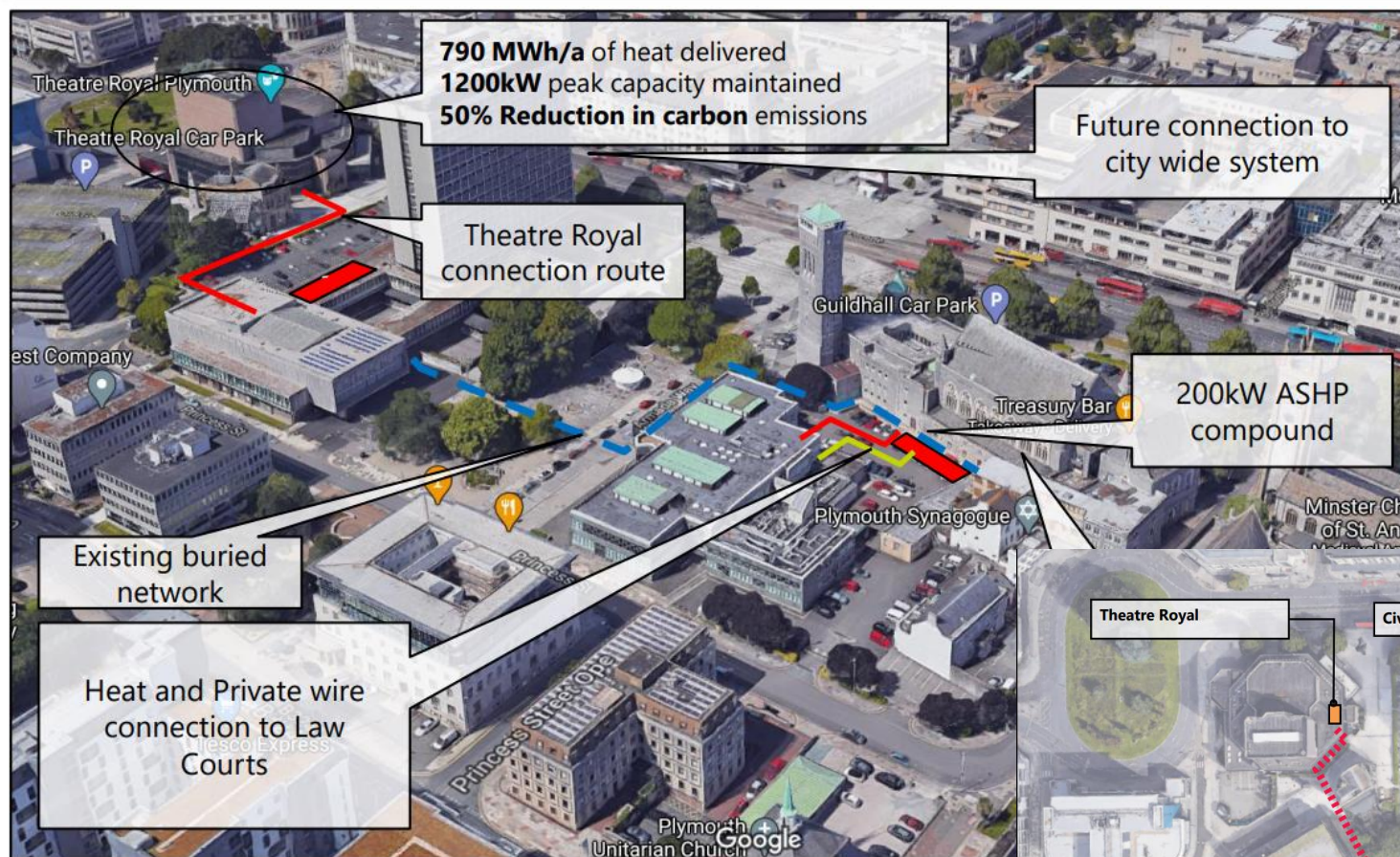
Jonathan Selman
Plymouth City Council

Civic District Energy Scheme

Market Transformation Commitments



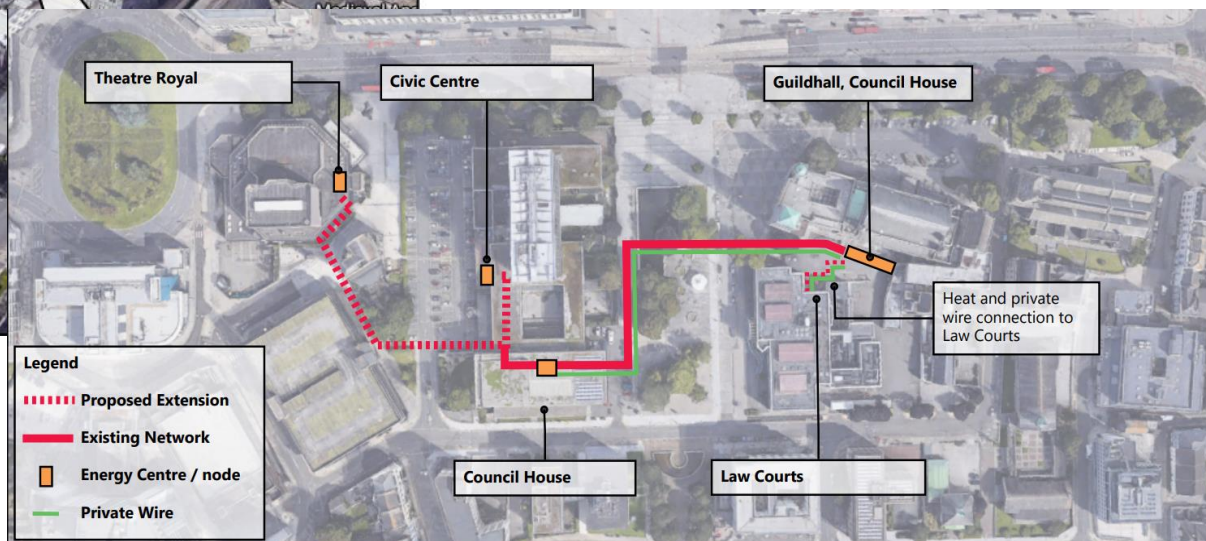
PLYMOUTH
CITY COUNCIL



Expands an existing heat network to connect three buildings:

- Theatre Royal
- Civic Centre
- Combined Courts

Overall value of scheme: £2.97M
GHNf construction grant £960K

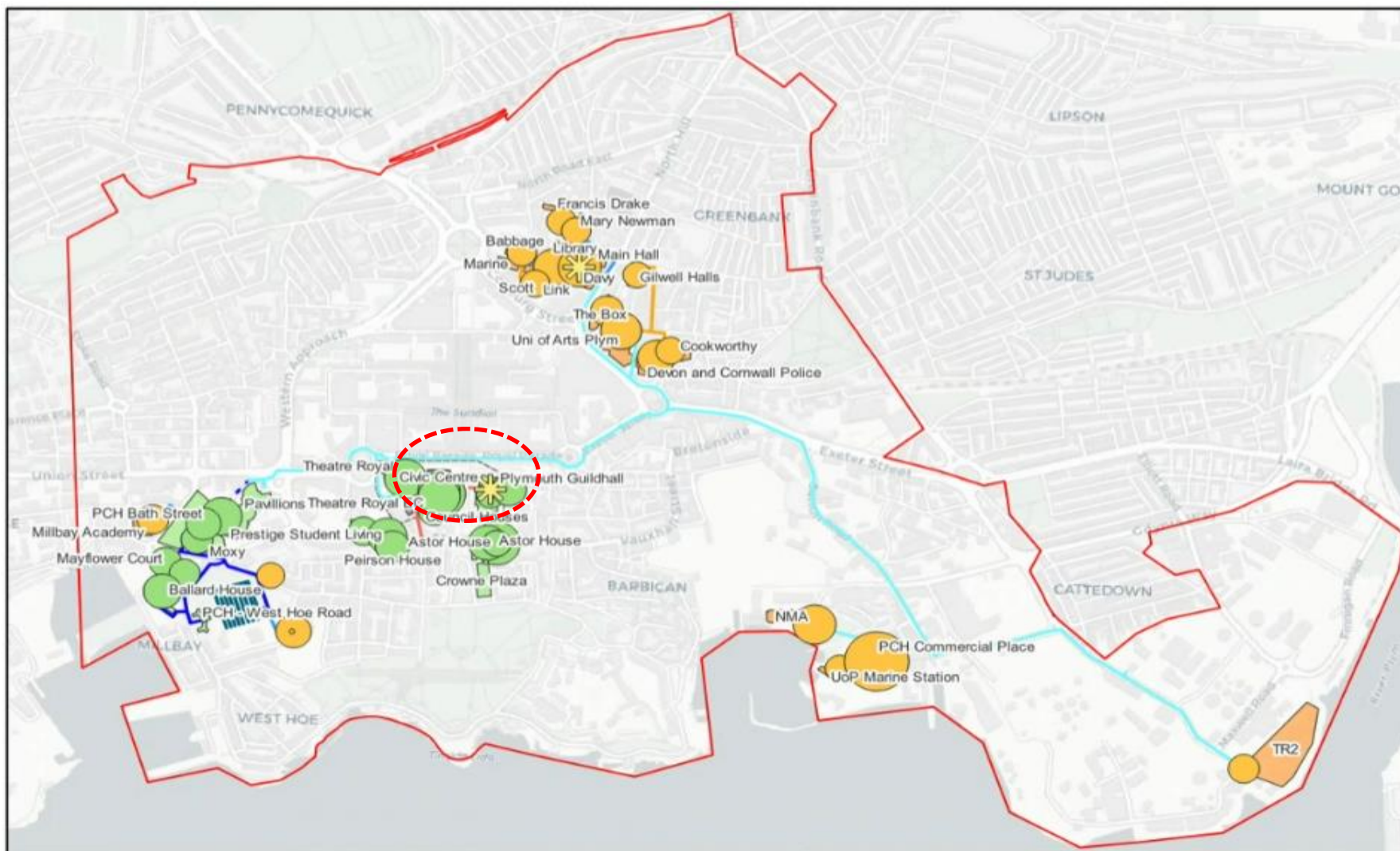


Plymouths MTC - central to our approach



- **Corporate Plan** - green investment, jobs and skills priority
- **Plymouth Economic Strategy** - (draft) (March 2024) - targets inward investment and growth activity from businesses linked to Net Zero, including specifically heat networks
- **Innovation** - participated in EU Interreg innovation projects around heat networks (HeatNet 4th generation & D2Grids 5th generation heat networks) and tried to incorporate learning.
- **Advanced Zoning Programme** - scheme being aligned with wider approach being promoted by Government as key node in City Centre.
- **Civic Centre** - In March 2024, Plymouth City Council announced that they would convert the lower floors of the building into a new campus for City College Plymouth "Blue-Green Skills Hub".

Civic DH Scheme- aligning with Advanced Zoning Programme approach.



Civic District Energy Scheme designed to be part of a wider network, with the ability to expand over time.

It has therefore been incorporated with the wider 'AZP' delivery approach and will utilise the same procurement, so that it is fully aligned with the first phase of zonal roll out and the Government approach to heat network zoning.

Plymouth shortlisted as one of 17 cities through the Advanced Zoning Programme to move to delivery at scale.

Civic Centre- Blue / Green Skills Hub



Civic Centre will host City College's new city centre campus could see up to 60 courses, focusing on the city's green/ blue skills sectors.

Courses could include construction, engineering, energy, electric vehicle technology, battery storage, net zero and sustainable technology, including heat network skills!



MTC commitments: Infrastructure



Fair contracting strategies and open procurement processes

- Market Engagement Event 30th November 2023 (9.30- 11am).
- As part of AZP approach, PCC looking to procure a Development Partner early in 2025, including to complete delivery the Civic District Energy Scheme.
- AZP market engagement has been completed, with information published on the proactis portal on 26/04/24 and a return date of 22/05/24. Strong interest in Plymouth.
- PCC has also presented the proposals at a DESNZ AZP market engagement webinar with over 350 participants on 9th September with updates on 22nd October 2024.
- A further PCC market engagement event is being planned in advance of the procurement launch, likely to be before February 2025.

MTC commitments: Infrastructure



We will work to develop a community engagement strategy for the project

- PCC developing a community engagement strategy and will also be taken forward by the Development Partner.

We will work to understand our projects carbon footprint and reduce this.

- PCC reducing the carbon impacts of estate and reviewed on regular basis through our Net Zero Action Plan.
- Additional gas peaking/ back up originally in the Civic proposals, designed out and replaced by an electric boiler/ thermal storage.
- AZP procurement will seek commitments to analyse the embodied carbon of at least one major component of project.

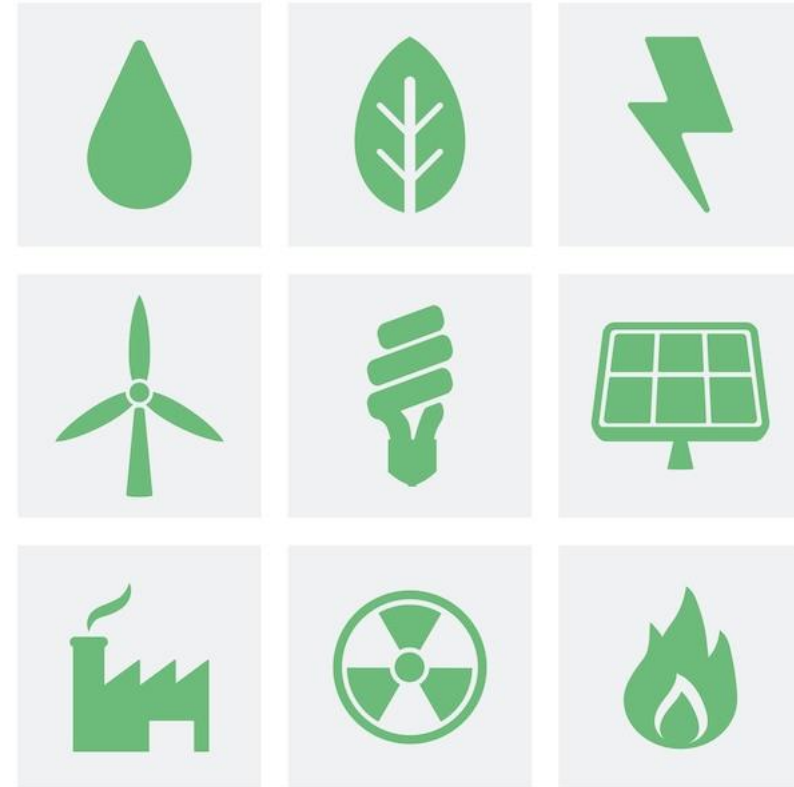


MTC commitments: Infrastructure



We will work to ensure that our network adds to a more reliable and resilient energy system

- Civic DH Scheme joins existing PCC network (with back up/ diversity ASHP capacity, CHP and gas boilers) for resilience.
- Secondary system changes and weather compensation controls improves efficiencies. First phase improves the electrical resilience, but also utilises existing solar energy.
- Civic DH Scheme forms part of a wider Advanced Zoning Programme network, as a key node supporting greater reliability and resilience,
- Heat pumps designed to work in air and water source modes.



MTC commitments: Infrastructure



We will endeavour to engage in the local supply chain and embed projects into local growth strategies

- **PCCs' Corporate Plan:** one of six priorities is 'Green investment, jobs and skills'.
- **Plymouth Economic Strategy**(draft) (March 2024): - linked to Net Zero opportunities, including specifically heat networks.
- Procurement evaluation criteria and scoring will include 'social value' criteria around working with local supply chains/ local economy using the National TOMs.



MTC commitments: Skills



Identify ways in which our green heat network supply chain can address the sector skills gap.

- Civic DH Scheme includes supply of heat to a City College Green/ Blue skills hub in Civic Centre. PCC engaging with City College over potential for training on heat networks and has already provided tours to some its students.
- PCC will seek social value outcomes through the procurement, educational programmes to raise awareness of the opportunities for a career in heat networks and an understanding of the training and skills required.
- TOMs methodology.



MTC commitments: Skills



Our project and its supply chain will use fair and open recruitment processes

- Utilise a public procurement portal which allow the wider industry to engage, but also publicised through engagement events and Heat Network Exchange. Have already posted updates on Exchange on 17th October 2024.
- PCC will seek to ensure through procurement process that the successful bidder adopts fair and open recruitment practices and similarly expect their supply chains to adopt this approach.



MTC commitments: Skills



Development of additional skills through project, recording apprenticeships, trainee, scholarships.

PCC will use procurement to secure commitments on development of skills and require monitoring/ reporting of these.. TOMs categories where relevant.

Stimulate jobs in the local area and across the UK

PCC will use procurement to secure commitments on development of jobs and require monitoring/ reporting of these. TOMs categories where relevant.



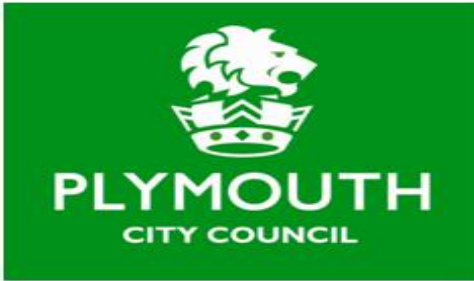
MTC commitment: Continual Improvement



Investigate how can be part of an industry continual improvement approach, applying learnings and innovations from previous projects, identify new solutions

- PCC is happy to share its experience of 5th generation heating and cooling networks from previous innovation projects but going forward to delivery working with a Development Partner. The Civic scheme forms part of this wider approach.
- PCC has experience of connection to some challenging historic buildings and the need to make secondary side changes and ASHP installation weather compensations.
- PCC's Net Zero Delivery Team is committed to continuous improvement, including applied learnings from previous projects, new technologies and methods.

MTC Commitment: Innovation

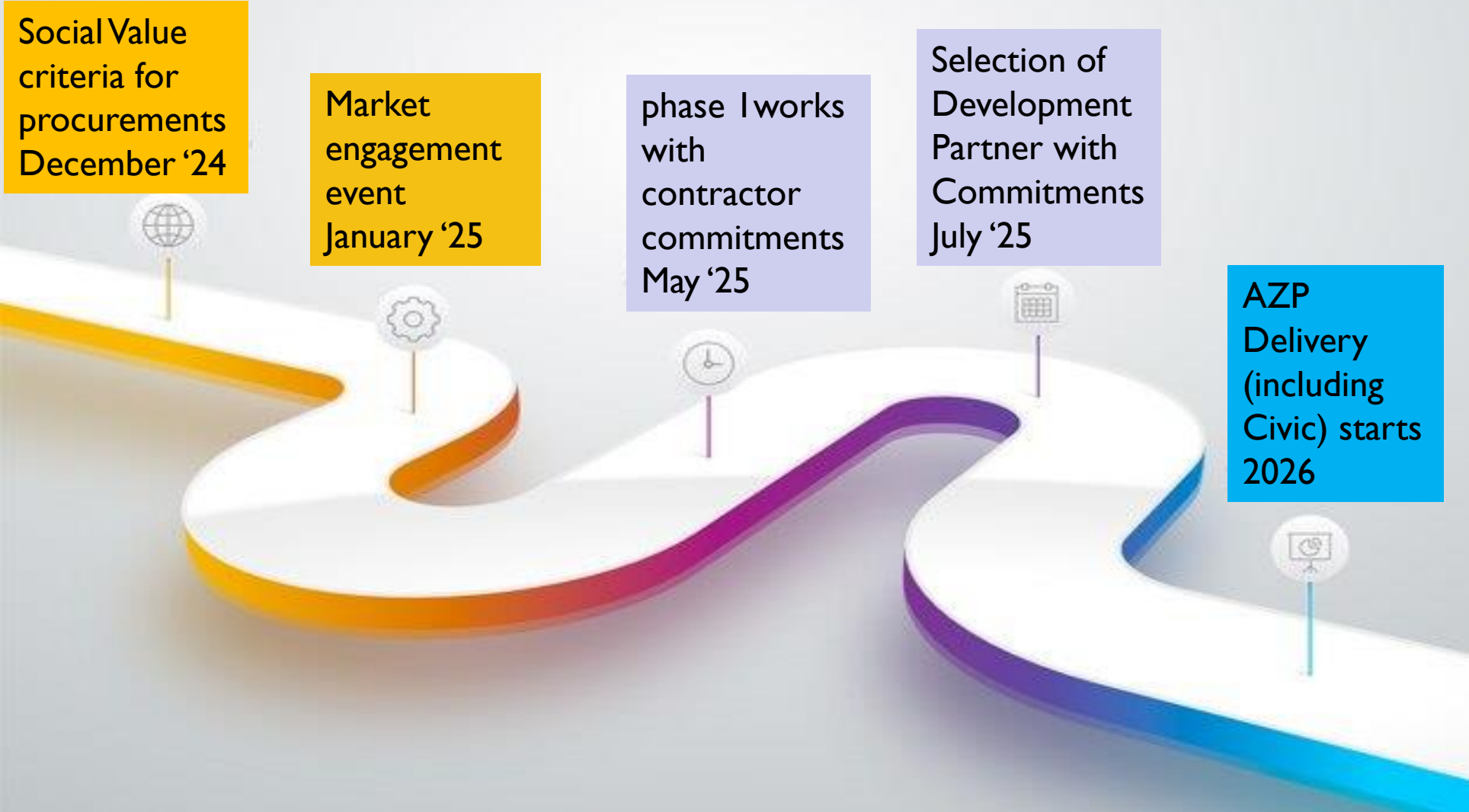
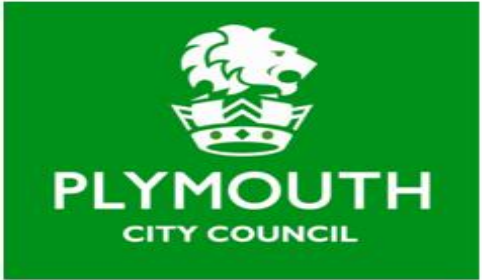


Identify ways in which our project can enable investment in R&D either directly or through our supply chain

- PCC has experience of EU Interreg projects focusing on innovation in heat networks (HeatNet & D2Grids) utilising lower temperatures, utilising waste heat sources, but also cooling demand.
- PCC will explore opportunities for research and innovation with academic partners, including University of Plymouth and Exeter. Opportunities being explored with National Grid.
- PCC can also seek to encourage R&D through its procurement of a Development Partner.



Anticipated Timeline



Bradford Energy Network

Nicholas Johnston

1Energy



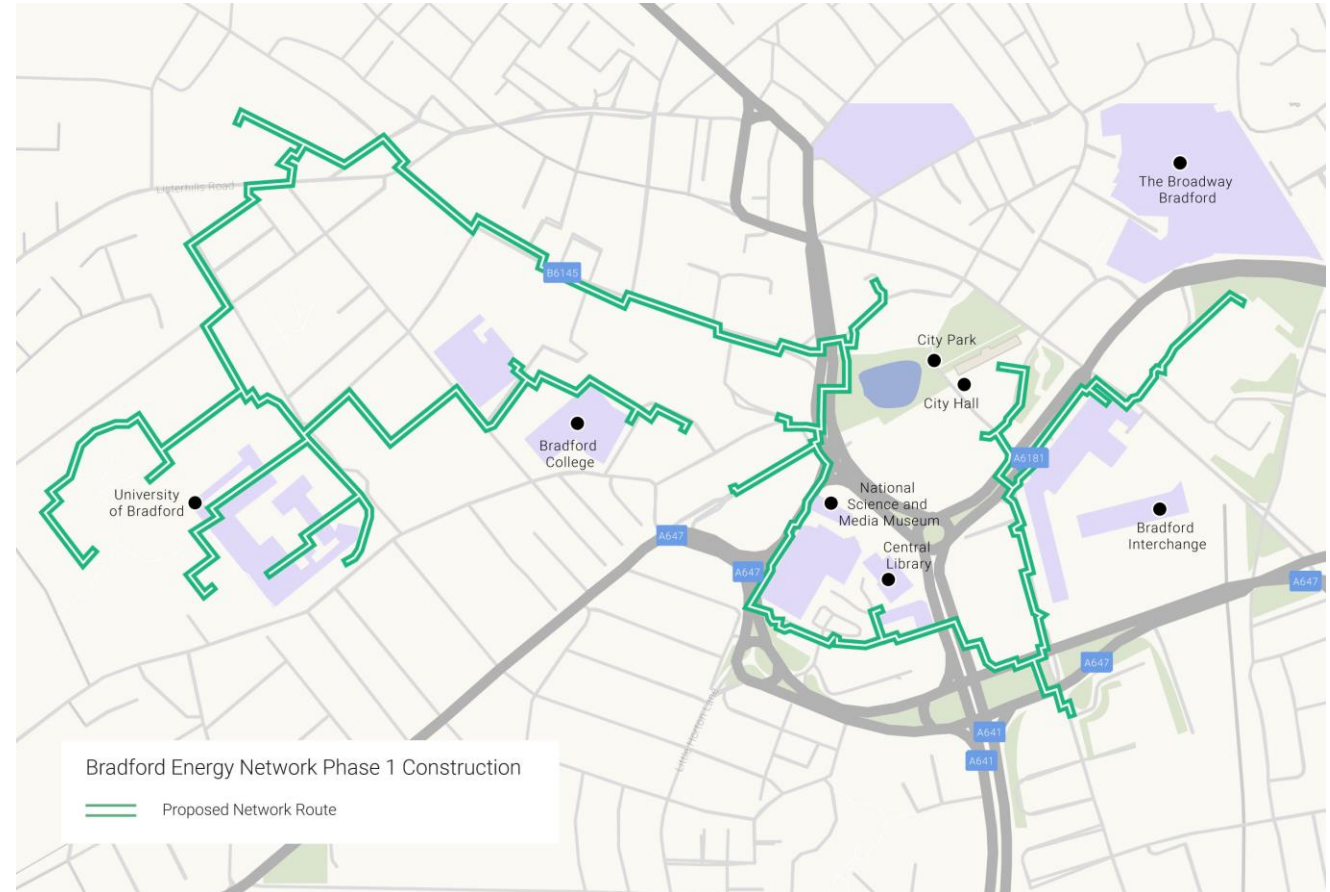
Bradford Energy Network

Delivering Market Transformation
and Social Value

18 November 2024

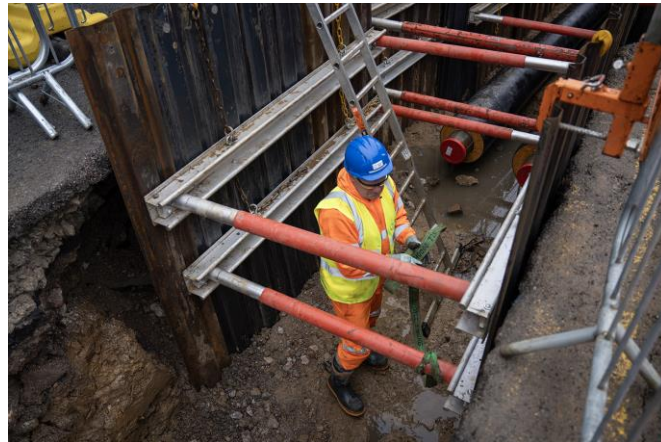
The Bradford Energy Network

- 1Energy's flagship low carbon heat network
- It is a £70m investment in Bradford, funded by 1Energy (£50m) and Green Heat Network Fund government grant (£20m)
- Low carbon heat is generated by one of the largest air source heat pump (ASHP) installations in the UK (8.9MWth), with 375m³ of thermal stores, and gas boilers which provide backup and heat on the coldest days.
- 1Energy's ambition is to connect c.30 buildings in Phase 1, including Bradford University, College, Council, Science and Media Museum, and Courts.



Network Progress to date

- Construction of city centre heat network complete – accelerated by Council TCF works
- Construction of connection to energy centre underway
- Energy centre is in early construction stage
- Connection and supply agreements signed by Courts, University of Bradford and Bradford College.
- In discussions with key potential Phase 2 offtakers – NHS, housing association, schools and more



Market Transformation Commitments



INFRASTRUCTURE



SKILLS



INNOVATION

Market Transformation Commitments



Fair contracting strategies and open procurement processes enable new entrants to the supply chain to compete equally with established suppliers.

Effective, targeted community engagement builds local support and awareness of the project.

Our network adds to a more reliable and resilient energy system

Understanding our project's carbon footprint and reducing our carbon impact helps deliver sustainable infrastructure



Market Transformation Commitments



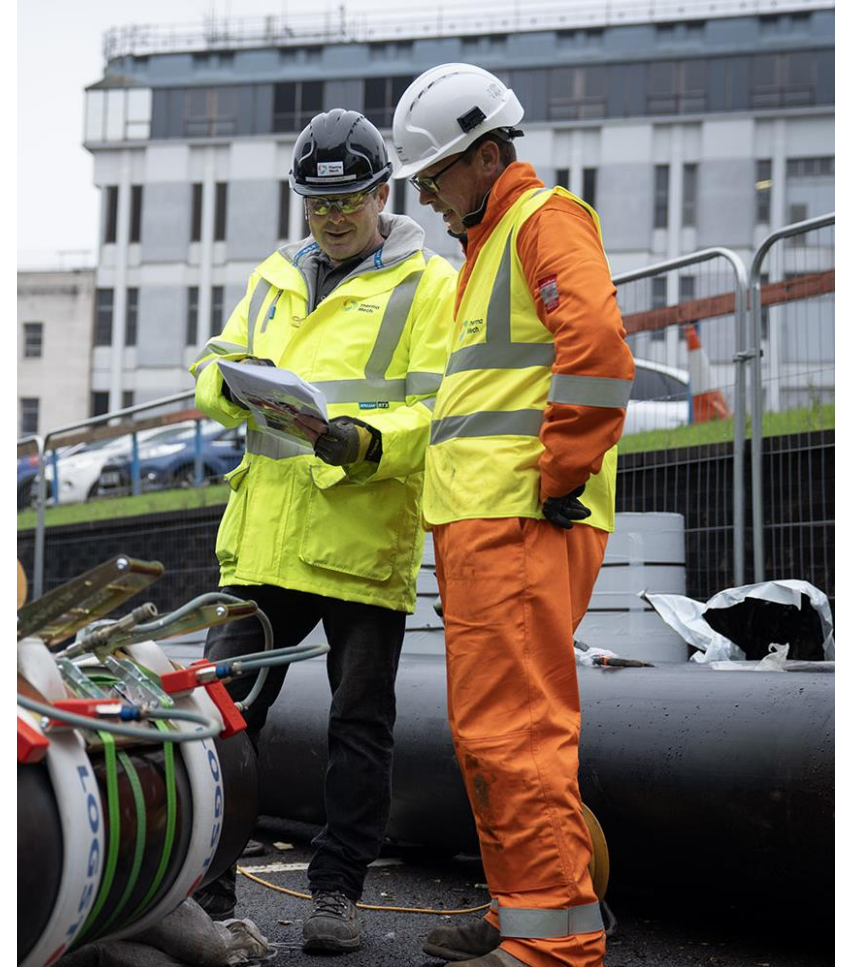
SKILLS

Our supply chain addresses the sector's **skills gap** to enable the capability and capacity growth needed to **deliver Net Zero**

Our project and its supply chain use **fair and open recruitment** processes

Investment in the development of additional skills is stimulated through our project, increasing the number of **apprenticeships and scholarships**

Jobs are created in the local area and across the UK



Market Transformation Commitments



INNOVATION

Our project enables investment in R&D directly and through our supply chain

Co-located data centre and energy centres are being pioneered.

Our project is at the heart of an industry-wide continual improvement approach through **applying learnings and innovations** from previous projects, **identifying new solutions** that form part of future R&D investment or represent significant potential for future projects.



Market Transformation Commitments



7 local directly
employed staff



240 local
employees through
supply chain



100+ staff hours
spent on local
school, college and
university visits



Contribution towards
level 2 sustainability
qualifications



12 week
placements for
individuals with
SEN



200 weeks of level 2
and above
apprenticeships



>£3.4m spent in local
supply chain

Contact

Nick@1energy.uk

1energy.uk

Closing Remarks & Thank You



Visit our website and fill in the contact form to receive updates from us: www.tp-heatnetworks.org



Email us with any questions or to be added to the mailing list enquiries@tp-heatnetworks.org



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