



Low Carbon Infrastructure Transition Programme (LCITP) Funding Routes

EAUC - Energy and Water Management
Topic Support Network, May 2019

Allan Crooks

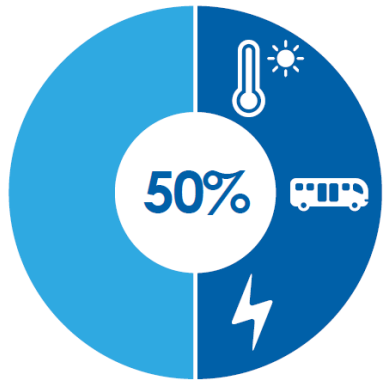
Programme Manager – Low Carbon Heat
districtheatingscotland.com

zerowastescotland.org.uk

 [@zerowastescot](https://twitter.com/zerowastescot)



Scottish Government Energy Strategy



THE EQUIVALENT OF
50% OF THE ENERGY
FOR SCOTLAND'S
HEAT, TRANSPORT
AND ELECTRICITY
CONSUMPTION TO
BE SUPPLIED FROM
RENEWABLE SOURCES



A WHOLE-SYSTEM
VIEW



AN INCLUSIVE
ENERGY TRANSITION



A SMARTER
LOCAL ENERGY MODEL



AN INCREASE BY **30%** IN THE PRODUCTIVITY
OF ENERGY USE ACROSS THE SCOTTISH
ECONOMY

by 2030



**WE WILL PHASE OUT THE NEED
FOR NEW PETROL AND DIESEL
CARS AND VANS BY 2032**

About the Low Carbon Heat team



**Technical
Solutions**



**Capacity
Building**



**Industrial
Decarbonisation**



**Expert
Guidance**

Technical Activities

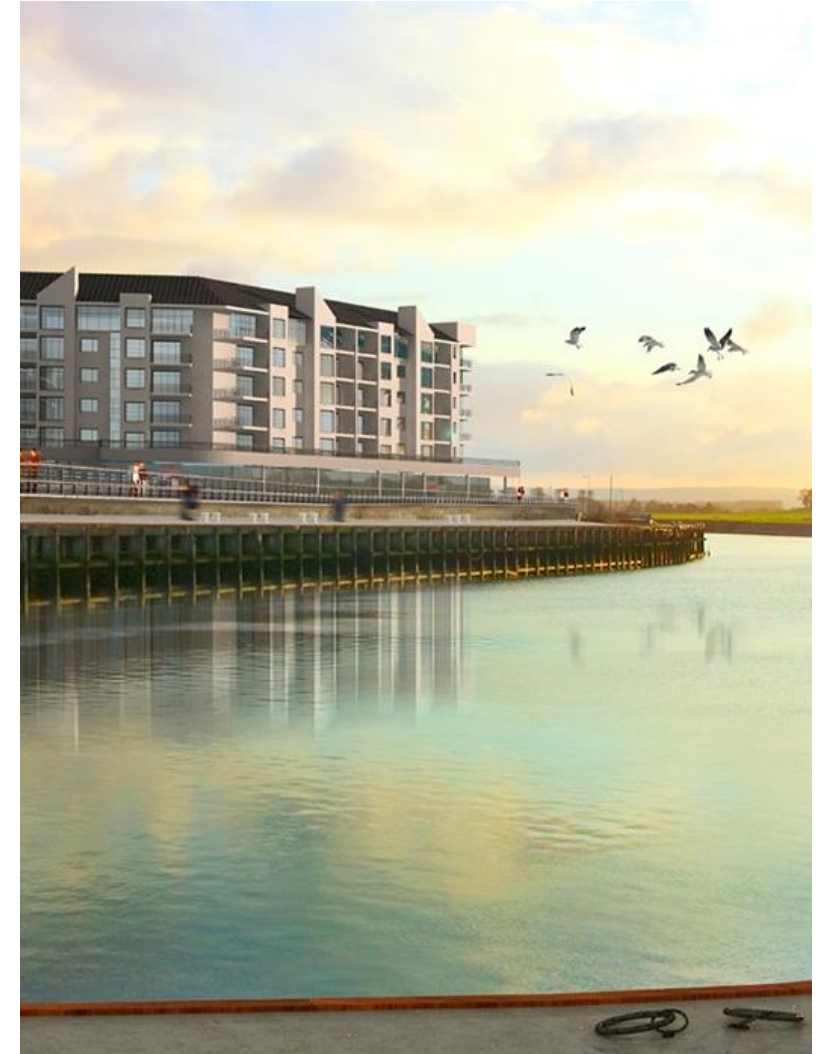
Aim: to support the development of low carbon heat projects in Scotland with local authorities and other public and private sector partners

Activities:

- LCITP
- Early stage opportunity assessment
- Outline Feasibility studies (co-funded)

Case study:

- Queens Quay, West Dunbartonshire
- Option for WSHP



Capacity Building



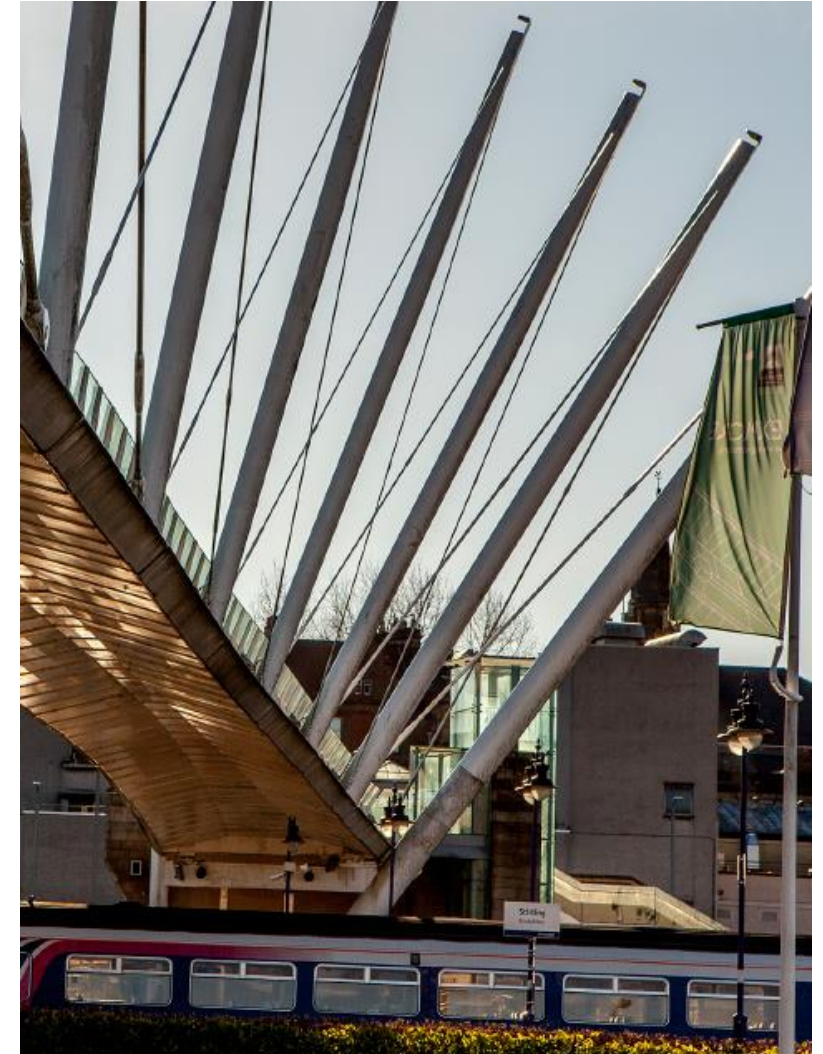
Aim: Supports Scottish local authorities in strategic planning for heat decarbonisation and to engage wider stakeholders

Activities:

- Strategy development support
- Stakeholder engagement

Case study:

- District Heating Planning, Stirling
- Options appraisal



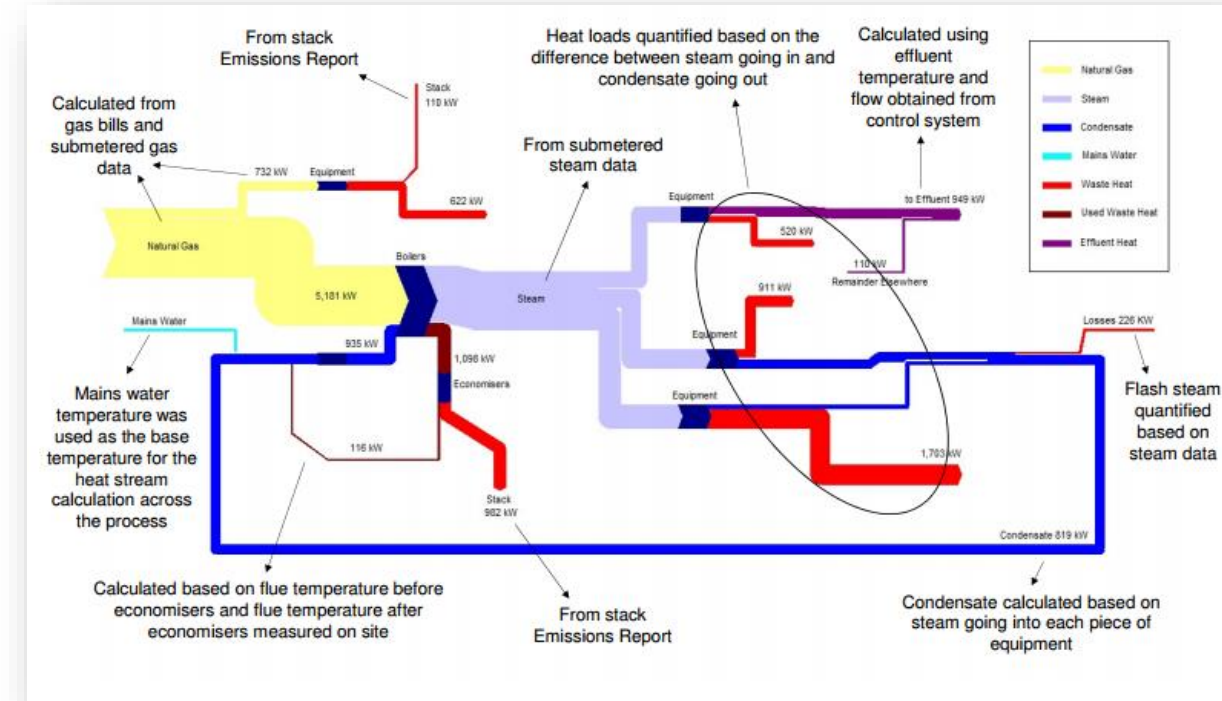
Industrial Decarbonisation



Aim: to support the identification of heat recovery projects at industrial sites in Scotland

Activities:

- Measurement and quantification
- Sankey diagram
- Costed improvements and savings
- Feasibility studies



Heat Network Partnership

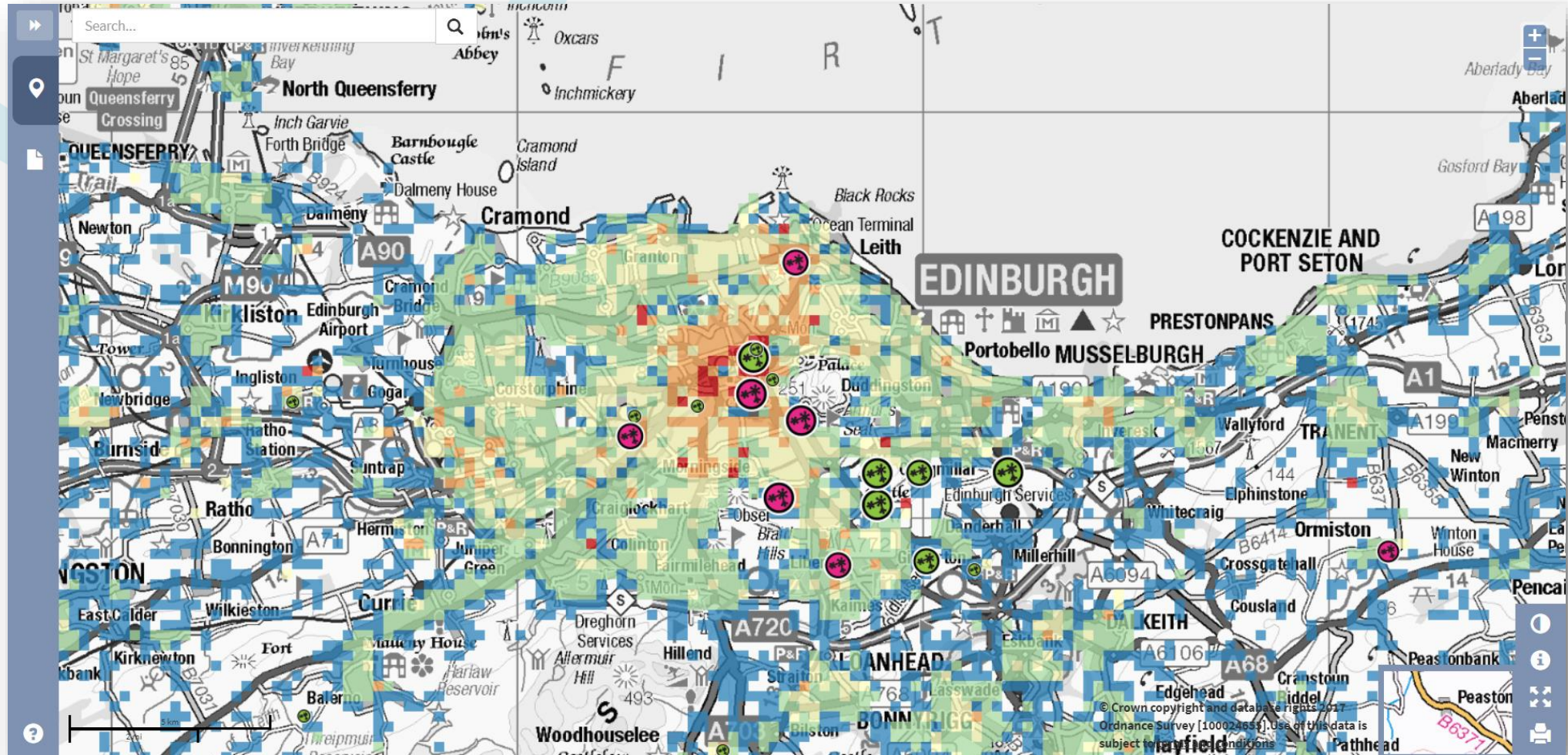


- Coordinated programme of support for district heating
- Website and project directory
- Knowledge hub (case studies, technical information, reports)
- Project development support from partners:



www.districtheatingscotland.com

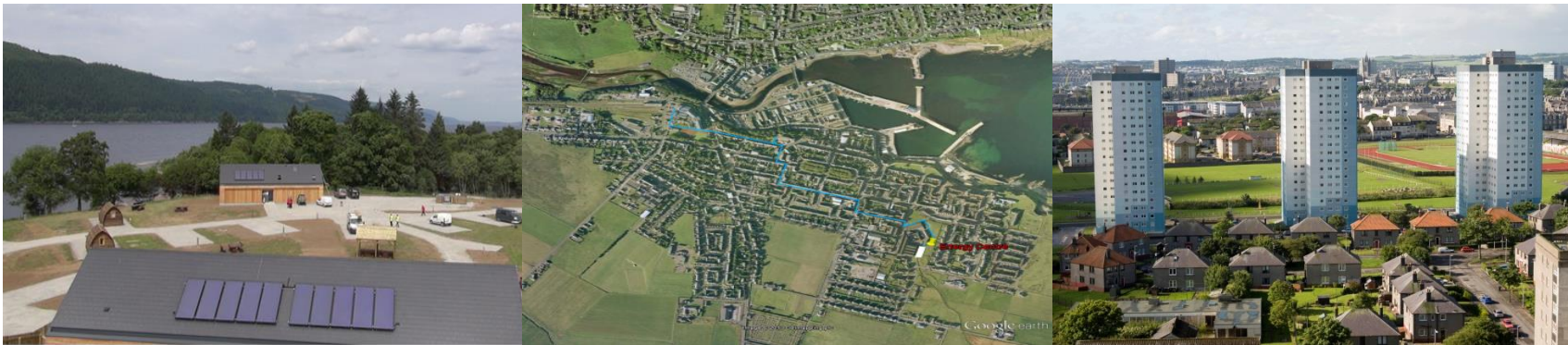
Scotland Heat Map



www.gov.scot/heatmap

District Heating Loan fund

- Offered £15M to 50 projects
- Larger loans are now available to bigger projects



How to Apply:
energysavingtrust.org.uk/district-heating-loan
(submit an expression of interest)

Low Carbon Infrastructure Transition Programme - LCITP

Scotland's Low Carbon Project Development Unit



**European
Union**



**The Scottish
Government**
Riaghaltas na h-Alba

EUROPE & SCOTLAND

European Regional Development Fund
Investing in a Smart, Sustainable and Inclusive Future



LCITP Scotland's Low Carbon Project Development Unit

**Supporting the development of substantive
private, public and community low-carbon
projects across Scotland**



LCITP – Project Support



Catalyst

Initial strategy development and feasibility work

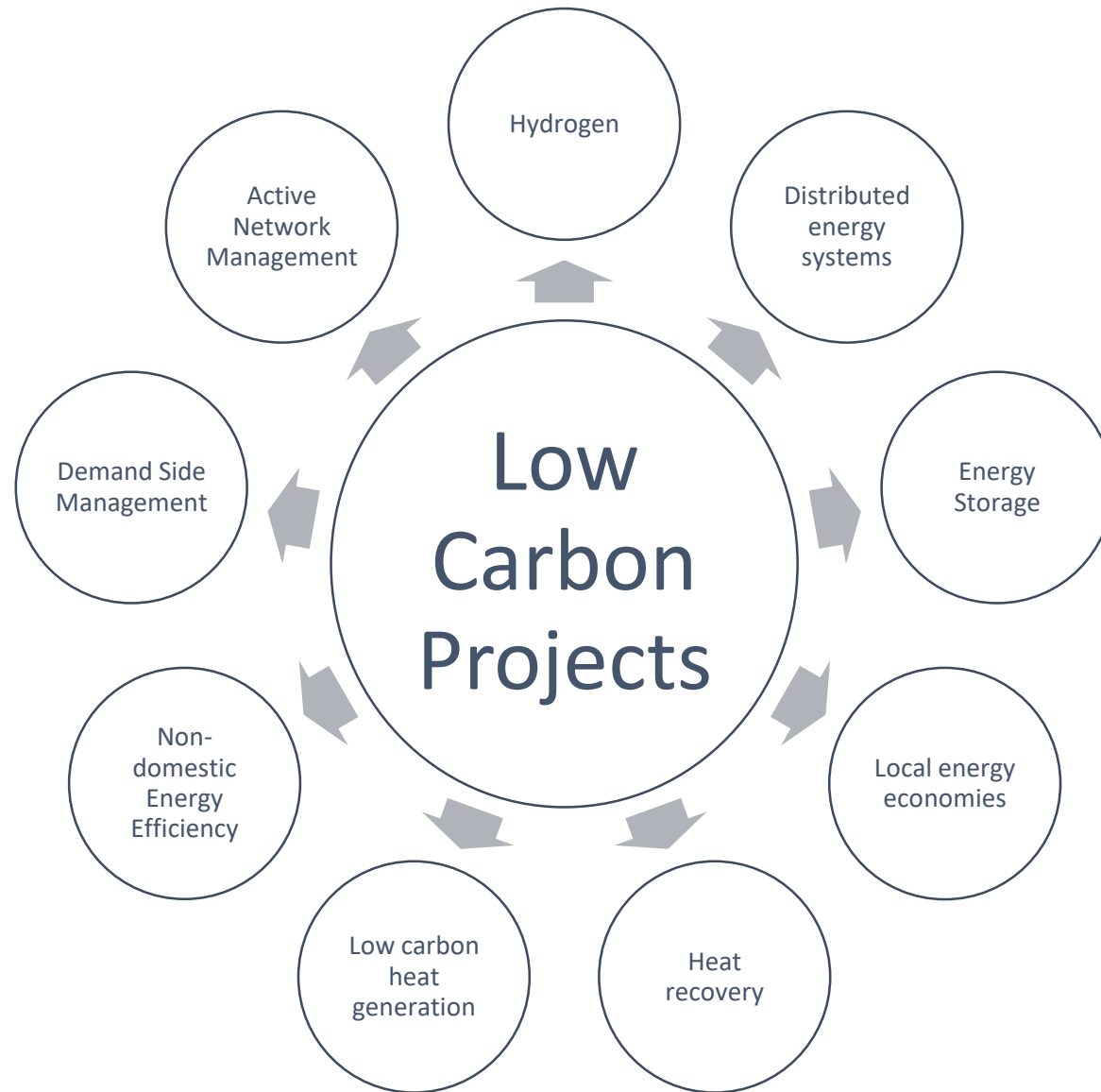
Development

Final business case, investment options and investment propositions

Demonstrator

Where a technology is not proven in Scotland capital support may be available to demonstrate its commercial viability

Projects landscape



Supports



- ✓ **SMEs**
- ✓ **Non SMEs - Private Businesses**
 - ✓ **Community groups**
 - ✓ **Registered charities**
 - ✓ **Third Sector**
- ✓ **Community Benefit Societies**

Applications Welcome

- ✓ **Community Interest Companies**
 - ✓ **Local Authorities**
 - ✓ **Public sector organisations**
- ✓ **Registered Social Landlords**
 - ✓ **Academic institutions**

LCITP



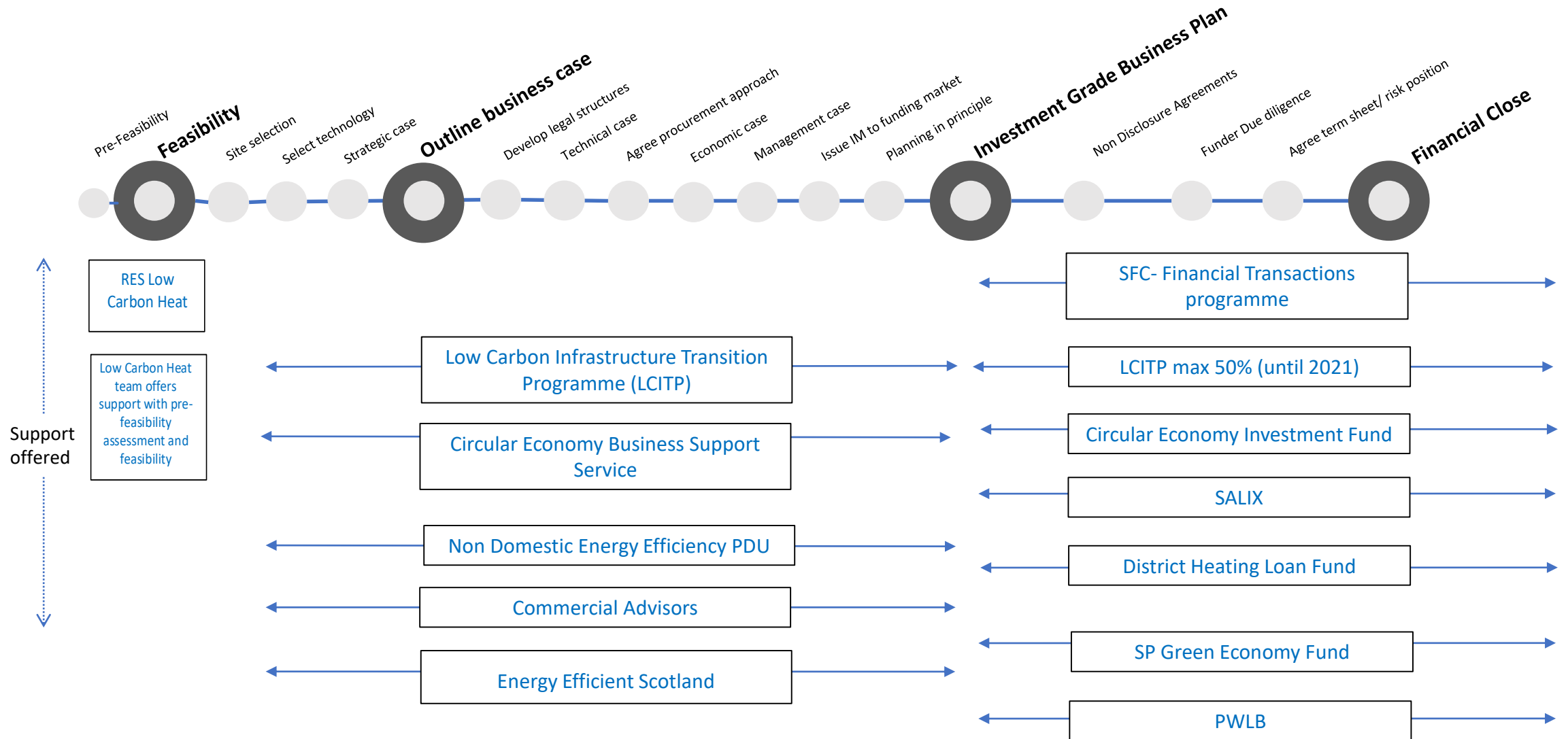
Scotland's Low Carbon Project Development Unit

CONTACT US

LCITP@gov.scot

<http://www.gov.scot/lowcarbon>

Funding/support available to public led projects



LCITP - Stirling Renewable Heat Demonstration Project



Technology: CHP and Waste Water Heat Recovery

Lead Partner: Stirling Council and Scottish Water

CAPEX: £4.1 million with LCITP Contribution of £2.0 million



LCITP - Glenrothes District Heat Network



Technology: RWE
Markinch Biomass Plant

Lead Partners: Fife Council
and RWE

Capex: £24 million with
LCITP contribution of £8.5
million



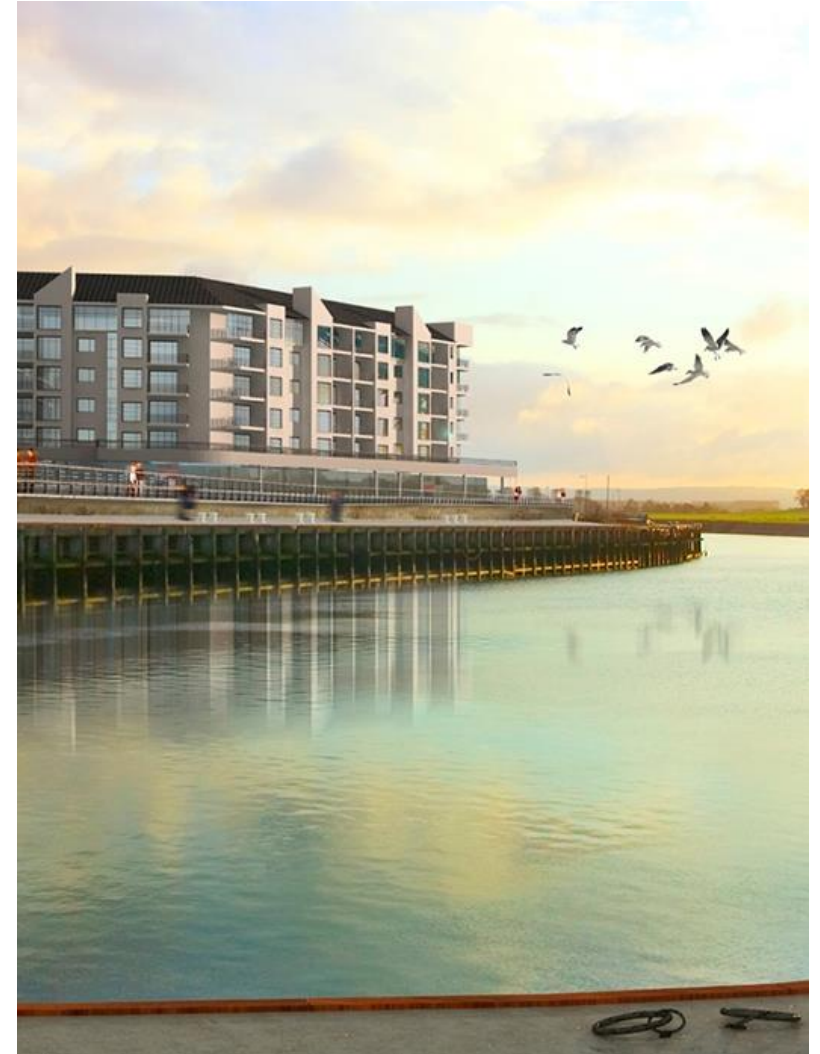
LCITP - Queens Quay District Heat Network



Technology: Water Source Heat Pumps

Lead Partner: West Dunbartonshire Council

Capex: £15 million with LCITP contribution of £6 million



LCITP - Regional Performance Centre for Sport (RPCS) at Caird Park, Dundee



Technology: GSHP DHN, Solar Thermal

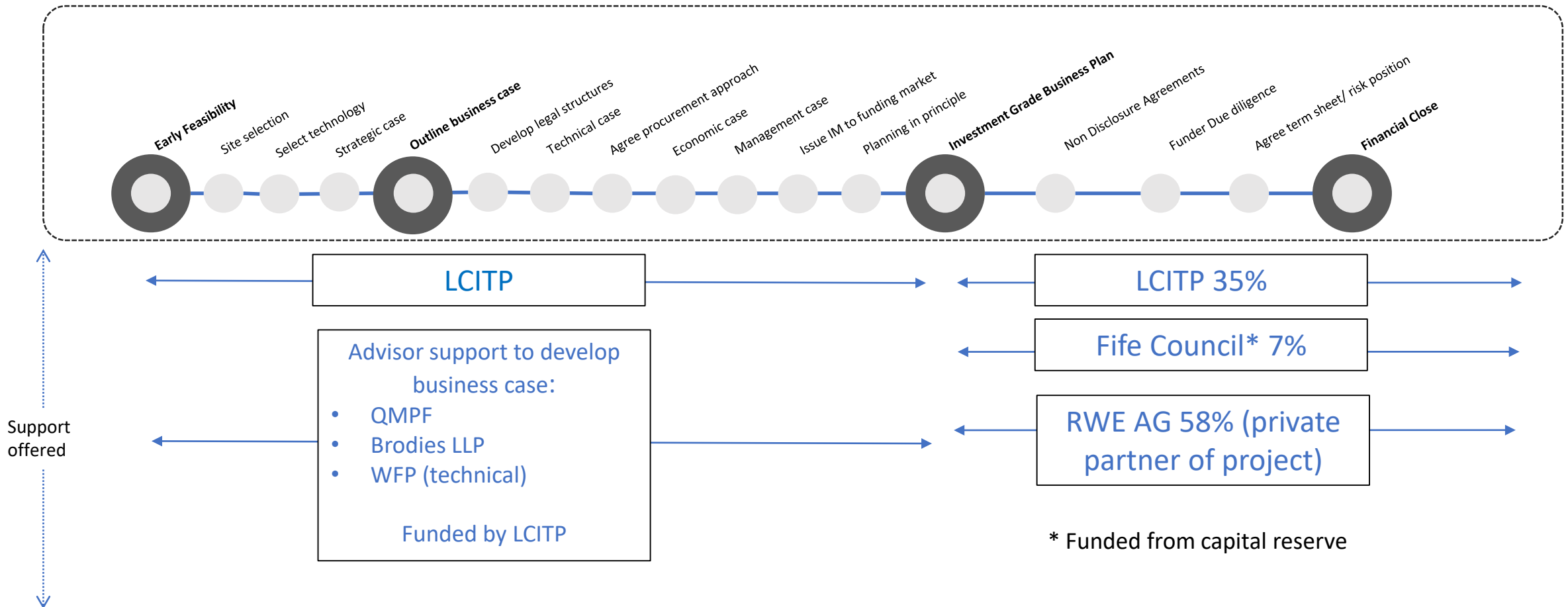
.

Lead Partner: Dundee Council

Capex: £6 million with LCITP contribution of £3 million



Case study- Glenrothes Energy Project

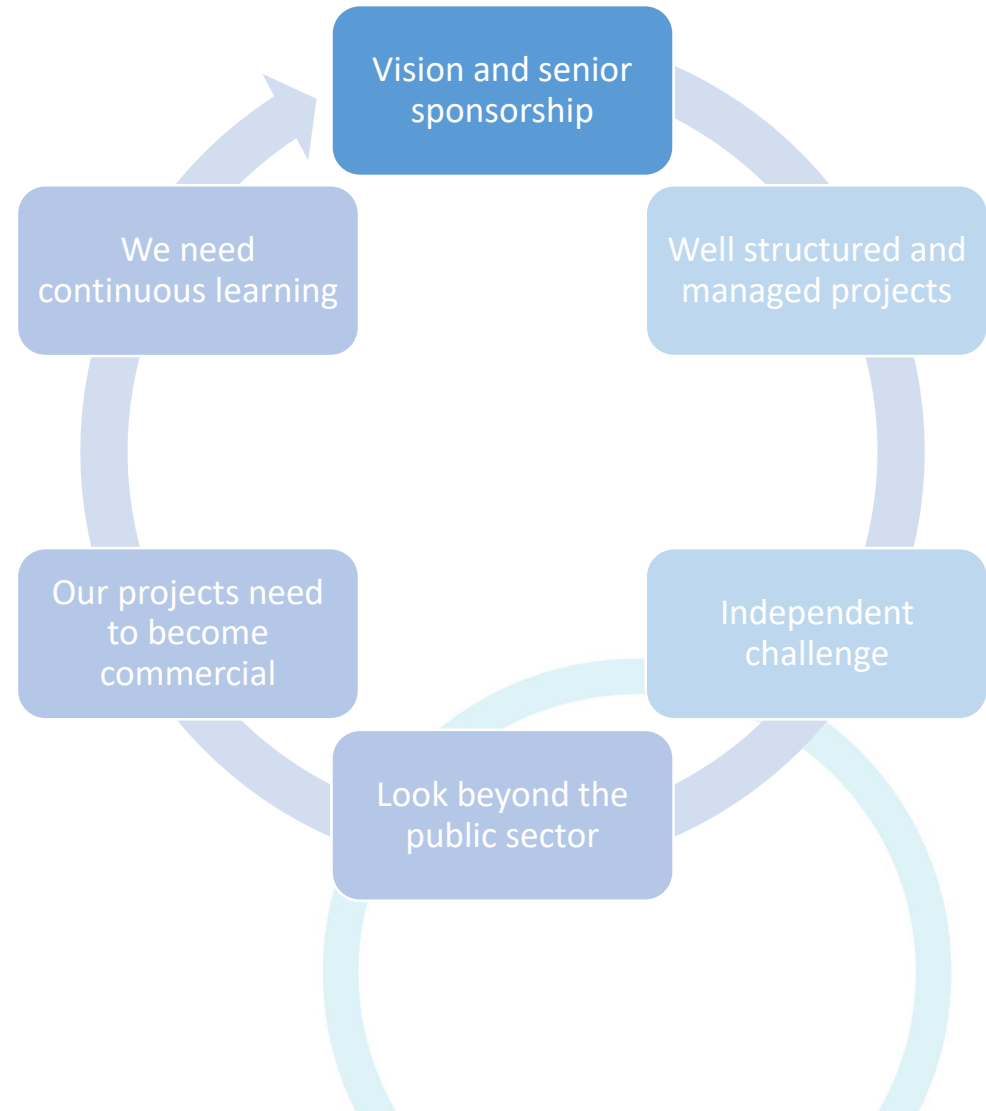


Establishing a more advanced, confident and innovative finance and investment culture



The most important factors in successfully delivering low carbon projects are:

- vision
- senior sponsorship
- clear objectives



Establishing a more advanced, confident and innovative finance and investment culture



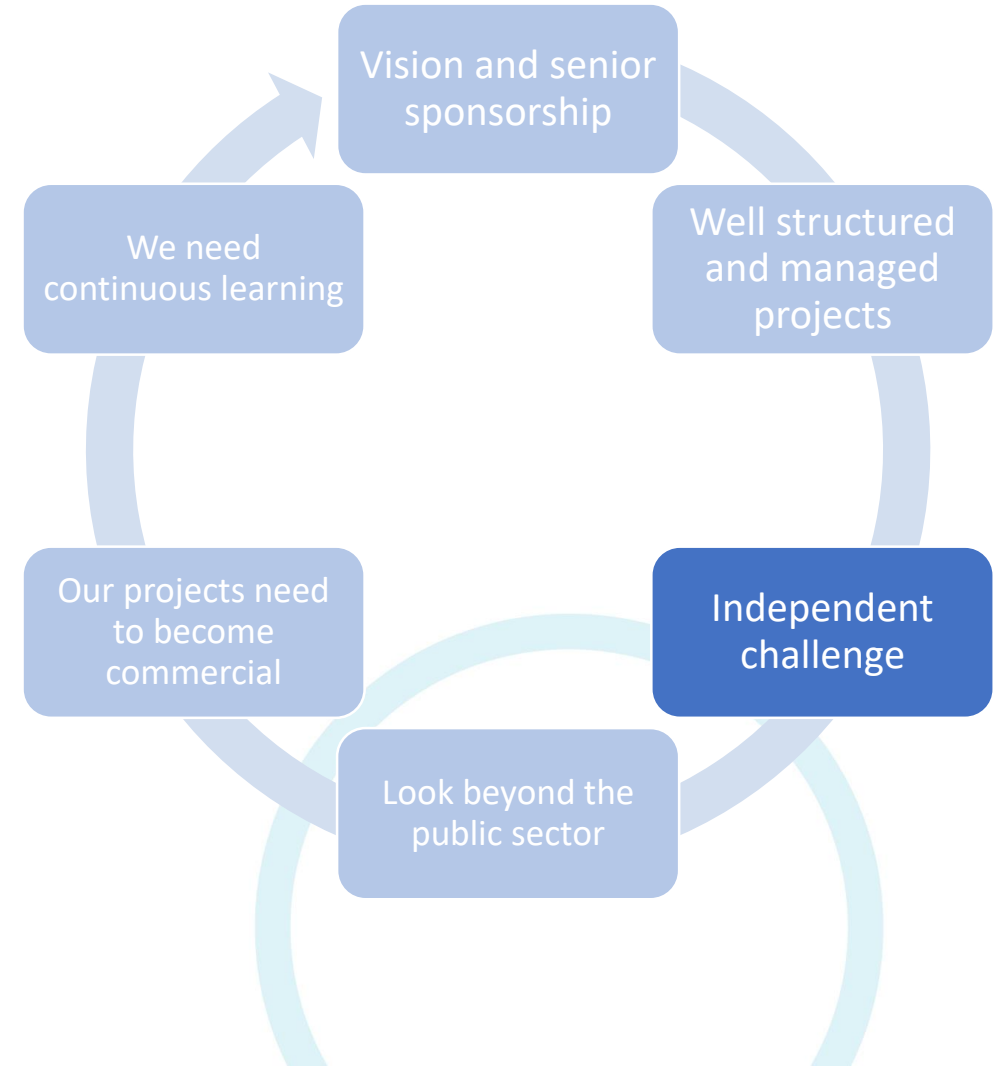
There is no shortage of finance but there is a shortage of investable projects, with robust business cases, that can stand up to funder due diligence.



Establishing a more advanced, confident and innovative finance and investment culture



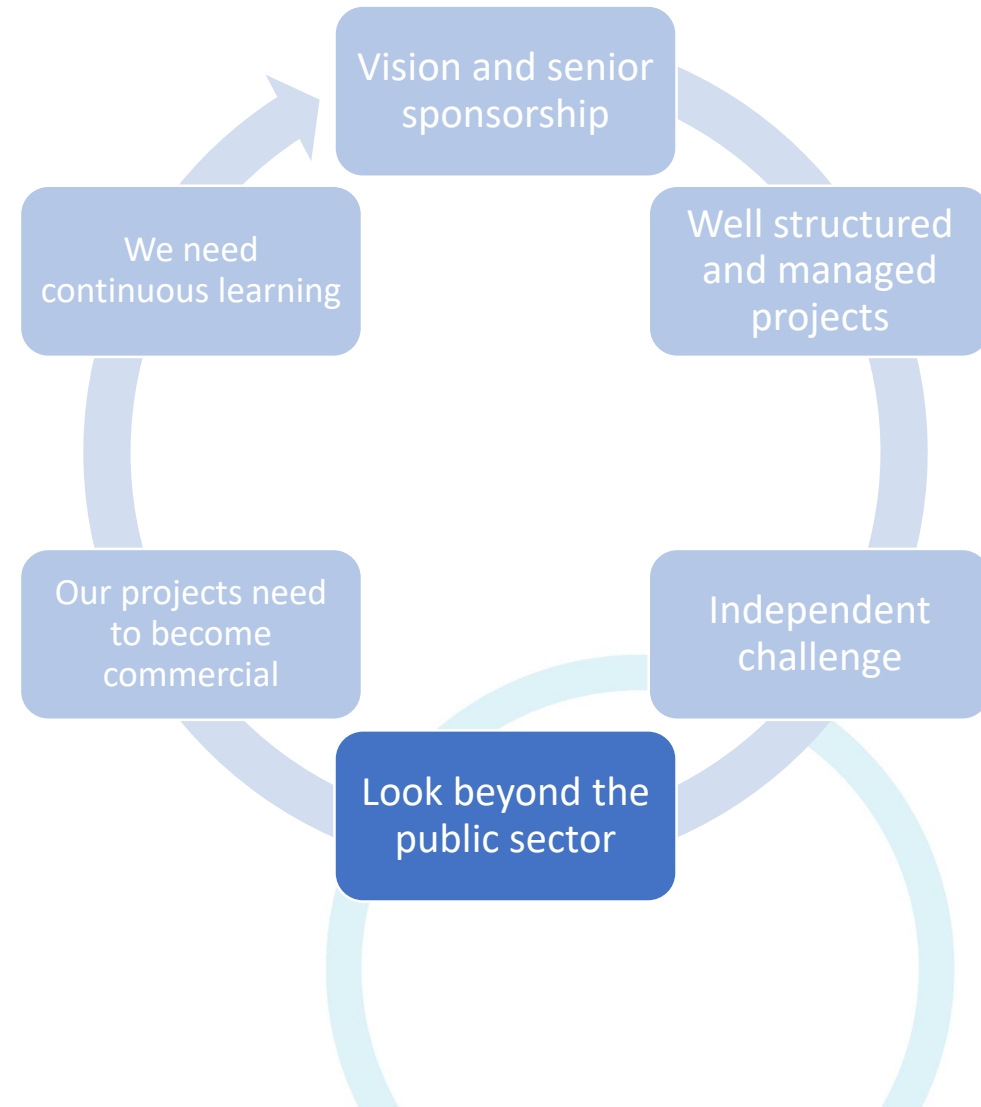
We cannot rely on technology providers or advisors to initiate and deliver projects. We need public sector led project development with independent challenge from a technical, financial and commercial perspective.



Establishing a more advanced, confident and innovative finance and investment culture



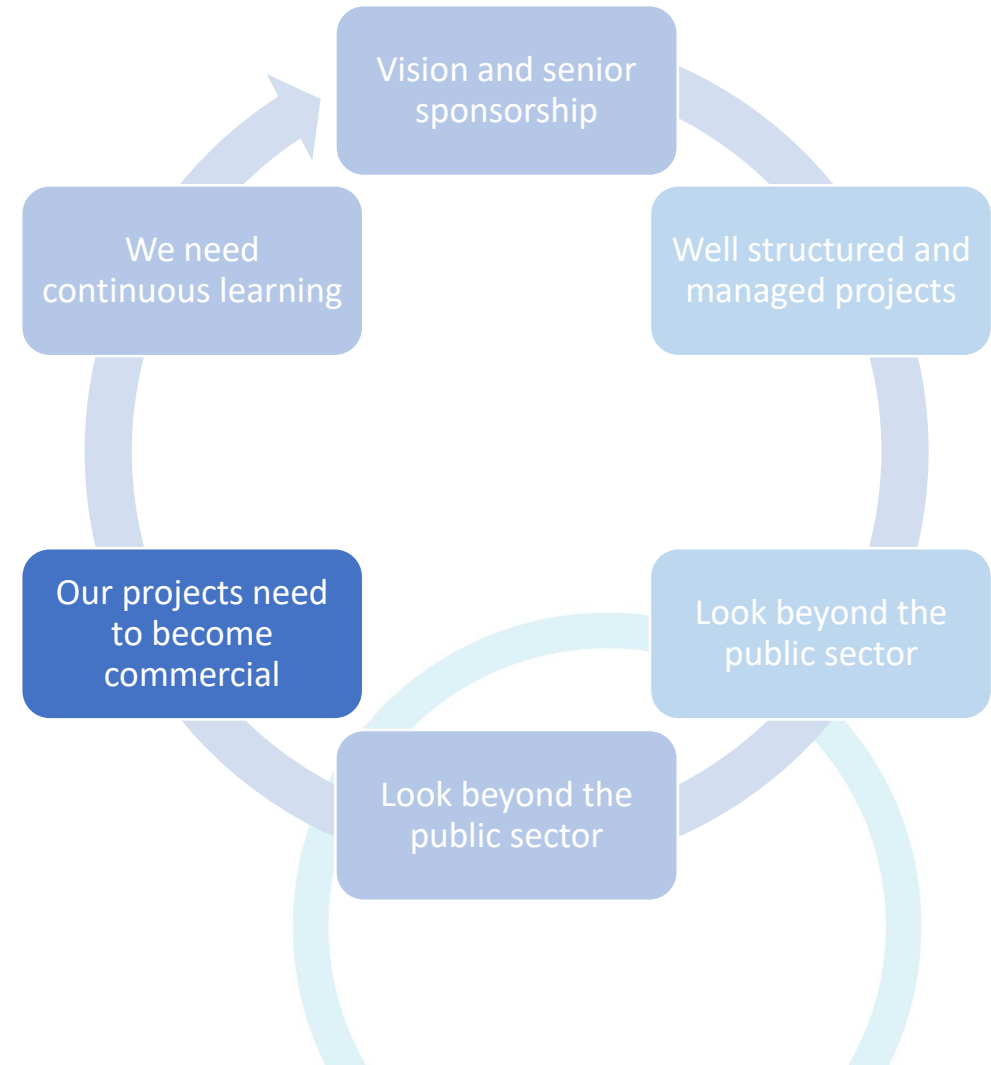
The public sector cannot deliver this without partnerships with the private sector. For example in joint ventures, as energy suppliers, off-takers and funders.



Establishing a more advanced, confident and innovative finance and investment culture



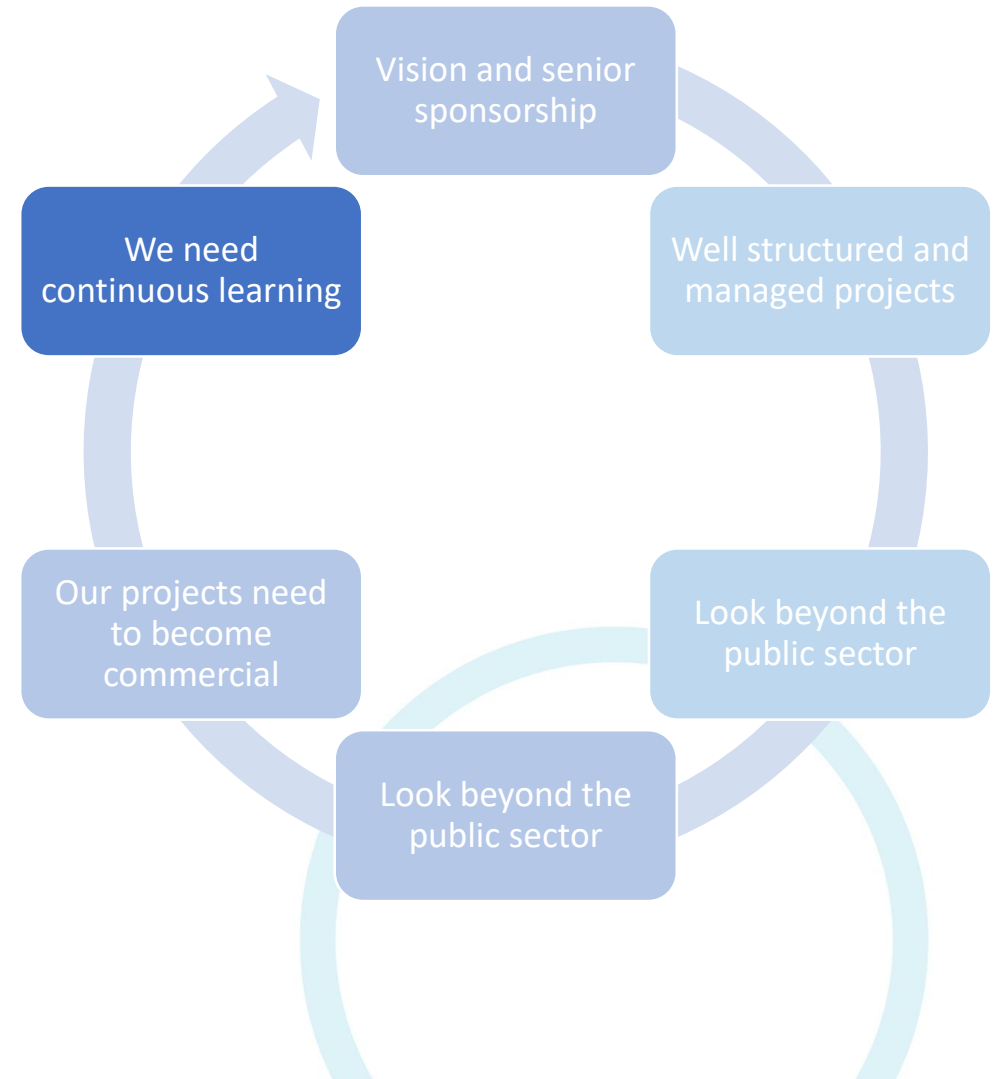
The majority of public sector low carbon projects are being delivered with subsidy - **this is not sustainable.**



Establishing a more advanced, confident and innovative finance and investment culture



No two projects are the same but we need a forum to share learning, challenge assumptions, and sign post to other support.






In conclusion...



Decarbonising our energy isn't easy but then we are not doing it because it is easy, we are doing it because it needs to be done.





Contact our **Energy and Low Carbon Heat Team**

Email LowCarbonHeat@zerowastescotland.org.uk

Visit www.districtheatingscotland.com



Thank you.

districtheatingscotland.com
zerowastescotland.org.uk
 @ZeroWasteScot

