

Local Heat and Energy Efficiency Delivery Plan

Report for: East Dunbartonshire Council

Customer:
East Dunbartonshire Council

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Document History

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1. Abbreviations

Table 1: Abbreviations

Acronym	Description
COP	Coefficient of Performance
EDC	East Dunbartonshire Council
GIS	Geographic Information System
LDP	Local Development Plan
LHEES	Local Heat and Energy Efficiency Strategy
LPG	Liquefied Petroleum Gas
SPEN	Scottish Power Energy Networks
SSEN	Scottish and Southern Electricity Networks

2. Introduction

2.1 Overview

This Local Heat and Energy Efficiency Delivery Plan should be considered in conjunction with East Dunbartonshire Council's (EDC) Local Heat and Energy Efficiency Strategy (LHEES).

The LHEES is primarily driven by Scotland's statutory targets for greenhouse gas emissions reductions and fuel poverty:

- net zero emissions by 2045; and
- by 2040, as far as reasonably possible, no household in Scotland is in fuel poverty.

The Delivery Plan has been developed in partnership with key stakeholders (as set out in Appendix H of the LHEES) and provides a set of actions for local communities, government, investors, developers and wider stakeholders, pinpointing areas for targeted intervention and early measures.

2.2 Purpose

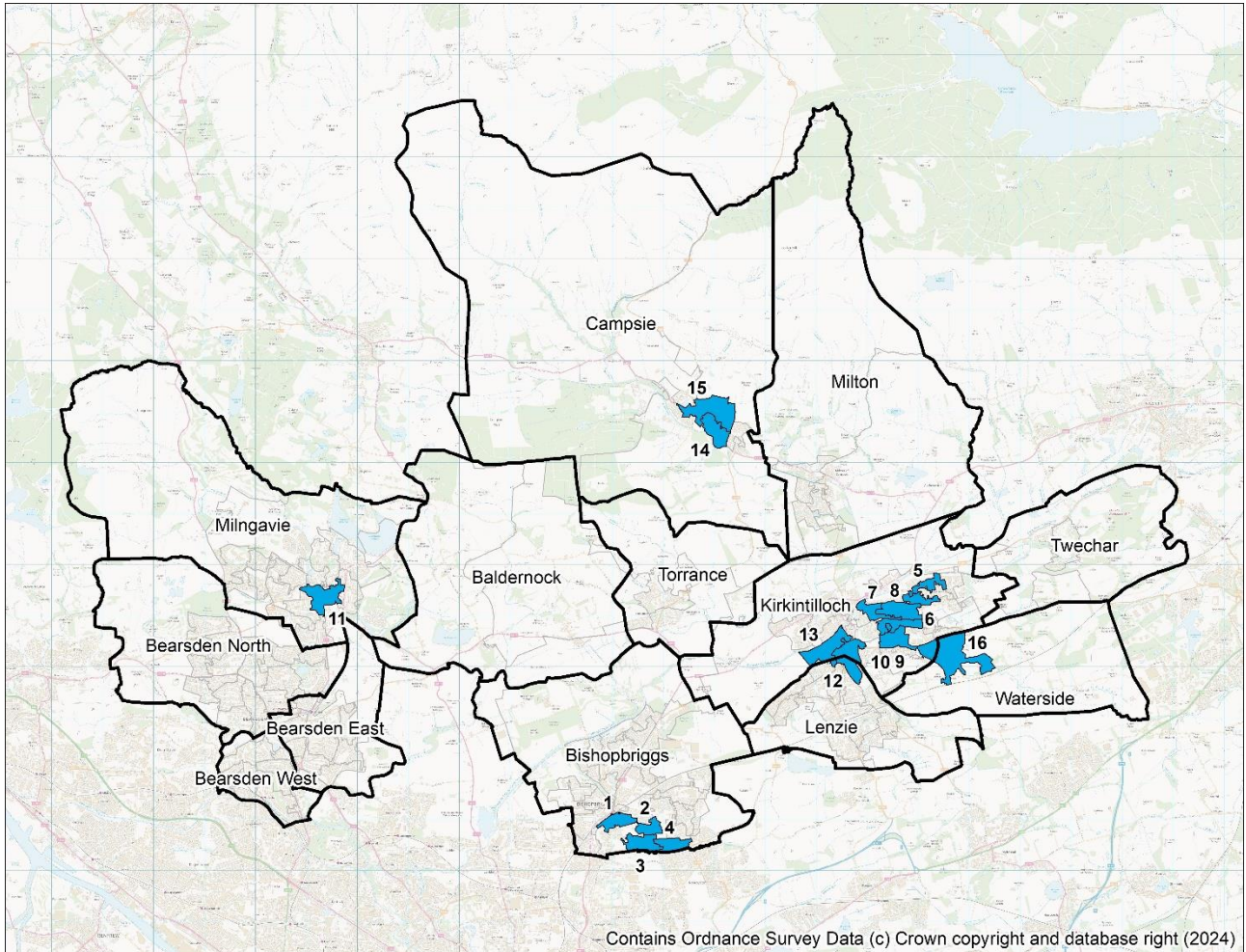
The purpose of the Delivery Plan is to present actions for East Dunbartonshire to contribute towards the aforementioned national targets based on opportunities and priority delivery areas identified in the Local Heat and Energy Efficiency Strategy.

3. Summary Of Actions

3.1 Prioritising

A thorough analysis of domestic and non-domestic buildings across East Dunbartonshire including spatial, technology and tenure aspects has been completed for developing a list of actions to implement the heat decarbonisation and energy efficiency measures set out in the LHEES. The multiple LHEES consideration and multi-criteria approach for the identification of priority delivery areas are outlined in Section 8 of the Strategy document, with the overlaying of multiple considerations in subsection 8.1.6. and decarbonisation opportunities for strategic zones in section 9 and Appendix G.

Figure 1: Priority Delivery Areas (as set out in the LHEES)



The areas in Table 2, corresponding with Figure 1 above (Figure 42 and Table 15 of the LHEES), have been identified to proceed with initial interventions where the Council could take the lead in the delivery of proposed actions. It is important to note that that these delivery areas would not be the sole beneficiary of future interventions, but rather the process for identifying delivery areas equips East Dunbartonshire with granular data that could help the Council to secure additional investment and enhance the impact of existing and immediate energy efficiency interventions.

Table 2: Priority Delivery Areas

Strategic Zone	Priority Delivery Areas	Area Number (figure 1)
Bishopbriggs	Auchinairn – 02 Auchinairn – 03 Auchinairn – 04 Auchinairn – 05	1 ,2, 3 & 4
Campsie	Lennoxton – 02 Lennoxton – 03	14 & 15
Kirkintilloch	Harestanes – 02 Harestanes – 03 Hillhead – 02 Hillhead – 03 Hillhead – 04 Hillhead – 05 Kirkintilloch West – 01 Kirkintilloch South – 04	5, 6, 7, 8, 9, 10, 12 &13
Milngavie	Keystone and Douglaston – 02	11
Waterside	Rosebank and Waterside – 03 (note)	16

Note that a small proportion of the properties in the Rosebank and Waterside -03 data zone are located in the Kirkintilloch Strategic Zone

The identified actions include:

1. District heat networks – progressing with stakeholder engagement and feasibility studies for the areas that have been identified as a potential heat network zone in Kirkintilloch and Bearsden. To evaluate the potential of the opportunity in Kirkintilloch, the energy requirements and planned infrastructure at the new Lenzie Academy need to be understood, and this information should be disseminated to key EDC staff.
2. Energy efficiency – completing the following interventions, as prioritised here by cost-effectiveness in reducing heat demand and targeting initial delivery in council-owned homes in the priority delivery areas:
 - All loft insulation upgrades to at least 300mm.
 - Installation of cavity wall insulation.
 - Upgrade all hot water cylinder insulation to 80mm.
 - Internal or external wall insulation on buildings that do not have cavity wall insulation.
 - Upgrading all single glazed windows to double glazing.
3. Installation of heat pumps to homes that are suitable with limited or no energy efficiency improvements. EDC should prioritise deployment of heat pumps in council-owned properties located in the priority delivery areas. The remaining life of the current heating system will also need to be taken into consideration (i.e. the Council advocating for replacing a boiler at the end of its lifespan with a heat pump). Whilst the majority of dwellings are heated by gas, replacing more carbon intensive fuels such as LPG / Oil / Solid, or systems that may currently cost more to run, should be prioritised.
4. EDC should identify what support is required for owner occupiers, private landlords, housing associations and other property owners to install heat pump systems, decarbonise existing communal heating systems and implement energy efficiency measures. Collaborating with the private sector and signposting stakeholders to available resources to drive area-wide / geographically targeted zero / low

carbon heating system installations & energy efficiency measures and sharing examples of best practice.

5. Communal scale and Council-owned heat networks – consider the options for decarbonising existing communal heating systems and available options for Council-owned properties that are geographically close to one another for implementing small-scale systems.
 - Bearsden Academy and St Nicholas Primary School
 - Kirkintilloch High School / Oxbang Primary School
 - Bishopbriggs Academy / Thomas Muir Primary School / St Helen's Primary School
 - St Matthew's Primary School / Wester Cleddens Primary School

The energy efficiency and heat pump installation actions listed above can be applied to most dwellings in EDC – irrespective of ownership.

Once all these actions are complete, further investigations will need to be undertaken to see what the next target interventions or delivery areas should be. The approach needs to remain pragmatic.

Note that the delivery of many of these technological opportunities for strategic heat decarbonisation and strategic opportunities for prioritised energy efficiency measures will be subject to one or more of the following criteria being met: additional funding being secured, more detailed feasibility work being undertaken, the lower costs of generating electricity using renewable energy being passed on to users and any increase in cost from electrifying heat being offset by improved energy efficiency. Potential funding opportunities for delivery actions are set out in Appendix M of the LHEES which should be kept under review for unlocking new funding opportunities as they become available, alongside the delivery monitoring and evaluation framework outlined in section 4 of the Delivery Plan.

3.2 Action Plan

Table 33 provides an action plan for the various interventions identified in this report. The responsibility for delivering these actions does not solely lie with the Council. Building owners in reviewing their assets should consider the analysis provided within the LHEES to enable them to improve the energy efficiency of their properties and decarbonise the heat of the same.

Table 3: EDC LHEES Action Plan

Action No.	Action	Area	Proposed Action Champion	Timescale
1	Ensure EDC LHEES delivery plan is shared with key internal and external stakeholders.	Stakeholder Engagement / Reporting	Sustainability Policy Team	2024
2	Ensure LHEES specific working groups are set up for continued reporting of the LHEES delivery plan and progress.	Strategic Development / Reporting	Sustainability Policy Team	2024
3	Complete detailed feasibility studies on proposed Council-owned communal heating systems.	Technical / Feasibility Study	Asset Management Team	2025
4	Develop a monitoring and evaluation framework for the LHEES delivery plan.	Reporting	Sustainability Policy Team	2025
5	Perform a stock condition survey to determine the level of intervention / investment / resources required to improve energy efficiency in EDC owned dwellings.	Implementation Projects	Housing Capital and Private Sector Team	2025
6	Engage with regional/ national shared forums for lessons learnt from early adopters on heat pump operational best practices and possible cross-border collaborations for district heat networks. Results should be closely monitored and should be used as input data for the next phase of LHEES.	Reporting	Sustainability Policy Team	2027
7	Annual monitoring / report of gas vs electricity prices and heat pump case studies to ensure heat pumps can still reduce fuel poverty in properties with gas boilers.	Reporting	Sustainability Policy Team	2024 - 2029
8	Support, promote and facilitate heat networking opportunities and renewable energy generation opportunities through LDP 3 and other potential major developments such as Westerhill.	Reporting	Land Planning Policy Team	2024 - 2029
9	Facilitate installation of zero direct emission heating systems in EDC properties that are currently using fossil	Implementation Projects / Reporting	Assets and Facilities	2024 – 2038

Action No.	Action	Area	Proposed Action Champion	Timescale
	fuel powered heating systems. Focus on the priority delivery areas to begin with and record ongoing progress.			
10	Complete detailed feasibility studies on proposed heat network zones in Kirkintilloch and Bearsden.	Technical / Feasibility Study	Sustainability Policy Team and Asset Management / Major Asset Projects Team	2025 – 2026
11	Produce an annual monitoring / report of gas prices compared to typical cost of heat from heat networks to ensure potential heat networks do not worsen fuel poverty.	Reporting	Sustainability Policy Team	2025 – 2026
12	Engage with other Local Authorities, universities, NHS trusts and other large public sector organisations to learn from their experience of decarbonisation and LHEES considerations on large estates. This is particularly relevant to other Local Authorities in the Glasgow City Region: <ul style="list-style-type: none"> • East Renfrewshire • Glasgow City Council • Inverclyde • North Lanarkshire • Renfrewshire • South Lanarkshire • West Dunbartonshire 	Stakeholder Engagement	Sustainability Policy Team	2025 - 2028
13	Facilitate pilot studies / demonstration projects / field trials on heat pump deployment and operational best practises.	Implementation Projects	Sustainability Policy Team	2025 – 2028
14	Identify archetypes to capture energy efficiency levels and heating systems in properties across East Dunbartonshire to support insulation upgrades and zero emission heating systems in the private sector (guided by EDC's own stock condition surveys and other local authorities) and collaborate with community councils where possible.	Implementation Projects	Sustainability Policy Team and Housing Capital	2025 – 2028

Action No.	Action	Area	Proposed Action Champion	Timescale
15	Engage with the public using educational material on technologies, funding opportunities, methods to reduce heating bills and suitable tariffs to encourage early adopters of heat pumps, prioritising areas with high probability for fuel poverty and poor energy efficiency.	Strategic Development	Sustainability Policy Team	2025 - 2029
16	Collate ongoing case studies of regional / EDC-level decarbonisation and fuel poverty reduction implementations, and learn from precedents, to create a live, up-to-date lessons learnt document. This includes contacting MCS ¹ /Ofgem/Scottish Government/UK Government about current heat pump performance and how to make sure high COP and a good experience is achieved.	Strategic Development	Sustainability Policy Team	2025 - 2029
17	Work with EDC Assets and Facilities to identify long term investment required for the interventions. Focus on the primary delivery areas first.	Strategic Development	Asset Management / Housing Capital and Private Sector Team	2025 - 2029
18	Continue regular engagement with SPEN and SSEN to monitor network constraints to coordinate transition work.	Strategic Development	Sustainability Policy Team	2025 - 2029
19	Use the SPEN NAVI/ LANIT tool to support the development of delivery areas – use the tools to identify where key barriers or risks to deployment may be present.	Technical / Feasibility Study	GIS Team	2025 - 2029
20	Support loft insulation upgrades in the priority delivery areas; record ongoing progress.	Implementation Projects	Housing Capital and Private Sector Team	2025 - 2029
21	Support all hot water cylinder insulation upgrades in the priority delivery areas for EDC owned dwellings; record ongoing progress.	Implementation Projects	Housing Capital and Private Sector Team	2025 - 2029

¹ [MCS Certified | Giving you confidence in home-grown energy](#)

Action No.	Action	Area	Proposed Action Champion	Timescale
22	Support internal or external wall insulation upgrades and cavity wall insulations interventions in the priority delivery areas; record ongoing progress.	Implementation Projects	Housing Capital and Private Sector Team	2025 - 2029
23	Support single to double glazing window upgrades in the priority delivery areas; record ongoing progress.	Implementation Projects	Housing Capital and Private Sector Team	2025 - 2029
24	Facilitate the uptake of smart tech and dynamic pricing, including installation of environmental sensors. Focus on EDC properties in priority delivery areas.	Implementation Projects	Facilities Management Team and Housing Capital and Private Sector Team	2025 – 2029
25	Coordinate with Scottish Government and collect improved datasets for 5-year LHEES updates.	Reporting	Sustainability Policy Team	2025 – 2029
26	Continue monitoring and updating the LHEES in 5-year review cycles.	Reporting	Sustainability Policy Team	2025 – 2029
27	Plan apprenticeships in collaboration with local colleges to develop local installer skills.	Training / Upskilling	Sustainability Policy Team and Community Learning and Development Partnership	2025 – 2029
28	Encourage growth of local skills for heat decarbonisation and improved energy efficiency to reduce the risk of local skill shortage.	Training / Upskilling	Sustainability Policy Team and Community Learning and Development Partnership	2025 – 2029
29	Commence development of business cases for all heat networks that are deemed feasible by feasibility studies; for both town-wide scale and Council-owned scale.	Strategic Development	Sustainability Policy Team	2026 – 2029

4. Monitoring and Evaluation

4.1 Aims for monitoring and evaluation

One of the main reasons that an LHEES is split into a Strategy and Delivery Plan is to enable successful monitoring against actions that have been developed through the process. Neither document is stand-alone, but the Delivery Plan can be used to evaluate EDC's progress through the 5-year LHEES cycle. The Delivery Plan is intended to be a live document that may lead to shifting priorities on actions. There are also a wide range of actions that may not be achievable collectively and so prioritisation of actions will be needed – an auditable and structured resource to achieve this is needed.

4.2 Proposed methodology and template

It is envisaged that the Action Plan, Table 3, can be used to monitor and track the measures identified. A more detailed version of this Action Plan has been provided with this Delivery Plan that adds extra fields/columns to ensure accurate progress tracking can be achieved. Some of the proposed additional data entry points are/could be:

- EDC Departmental Oversight
- Action Champion
- Progress
- Timescale
- Update to original action

Having a resource that is updated during future LHEES working group/meetings allows continual updating, tracking and evaluation of actions through the 5-year LHEES process as well as informing the next iteration of the Strategy.

An example of this is shown below:

Action No.	Action	EDC Departmental Oversight	Action Champion	Progress	Timescale	Update to original action
1	Example	Example	Example	Example	Example	Example

It is envisioned that the Action Plan spreadsheet could be used to track any / all energy or decarbonisation of heat projects that occur in EDC – both those led by EDC and others that are implemented by other organisations (be that public or private sector organisations) – i.e., it does not need to be limited to the list of actions that appear in Table 3.



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