Mayor of London

London Heat Map +

Heat Mapping Study - London Borough of Newham

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Executive Summary

The aim of the London Heat Map is to identify opportunities for decentralised energy networks in London, with this report detailing the findings for the London Borough of Newham. This process is part of the Mayor of London's drive to deliver 25% of London's energy through decentralised energy (DE) by 2025.

Arup has been commissioned by the Greater London Authority to complete the London Heat Map and provide each of the London Boroughs remaining from the DEMaP programme with a report outlining their potential opportunities for DE; the London Borough of Newham is one such Borough.

The heat load and supply data used for the London Heat Map has been sourced by the London Borough of Newham and supplemented by additional data available through publically available central databases. From this, Arup have performed a high level mapping study to identify clusters where potential opportunities for decentralised energy networks may exist.

The London Borough of Newham has six cluster areas identified in this report which have been highlighted as opportunity areas for future investigation into DE scheme. Within these are also included:

- The Royal Docks cluster, which has been identified as an opportunity as part of the London Thames Gateway Heat Network (LTGHN) feasibility study, completed in January 2010[1], and
- The Stratford City scheme, which covers the Olympic Park, built to host the Olympic Games in 2012. This area already has an existing DE network in the park which aimed to act as a catalyst for the large scale deployment of DE schemes in the east of London.

Further detailed information for each of the identified clusters are included in this analysis.

For each of the identified areas, further steps are recommended to progress the schemes as the London Borough of Newham moves towards the Mayor's Targets for DE.

[1] Reference: London Thames Gateway Heat Network: North-side Project Business Plan, January 2010, London Development Agency

1 Introduction

The London Heat Map was developed through the London Development Agency's (LDA) Decentralised Energy Master Planning (DEMaP) programme in 2009 – 2010 with the aim of providing information about heat loads in London to help identify opportunities for decentralised energy.

In November 2011, the Greater London Authority (GLA) commissioned Arup to complete the London Heat Mapping exercise with the following tasks;

- to carry out heat mapping for the remaining ten London Boroughs and therefore provide a consistent London Heat Map
- to provide each of these remaining Boroughs with a report outlining potential opportunities for decentralised energy

This report outlines the potential opportunities for decentralised energy in the London Borough of Newham. To compile it, Arup consultant engineers worked in partnership with the London Borough of Newham to carry out the data collection and analysis to identify opportunities for decentralised energy.

This report sets out the methodology employed for the heat mapping process and presents the findings of potential decentralised energy opportunity within the London Borough of Newham.

The data collected from the London Borough of Newham has also been uploaded onto the online interactive GIS London Heat Map (www.londonheatmap.org.uk).

2 Background

Energy generated by centralised power stations and transmitted through the national grid can be highly inefficient and wasteful. One of the Mayor's top priorities for reducing London's CO_2 emissions is to reduce the capital's reliance on centralised power stations. This means increasing the use of local, low carbon energy supplies through decentralised energy systems.

In 2010, residential, commercial and public sector buildings represented over 40% of UK greenhouse gas emissions2; reducing the carbon content of the heat and electricity supplied to these buildings is clearly a vital undertaking in efforts to mitigate climate change.

2.1 Decentralised Energy and District Heating

In broad terms, Decentralised Energy (DE) is the local or sub-regional supply of heat and electricity from a central source, known as the Energy Centre (EC), to end users via a District Heating (DH) network. The EC normally hosts one or more Combined Heat and Power (CHP) units as well as back-up boilers and thermal stores.

[2] Building Britain: The path to sustainable growth for the built environment (2012). Aldersgate Group.

CHP is the simultaneous generation of heat and power in a more efficient way than if the two forms of energy would have been produced separately. Heat is recovered from the power generation process and is typically supplied in the form of hot water.

DE will play a key role in developing a more sustainable, secure and cost-effective energy supply for London, and help target a number of important problems such as climate change and fuel poverty.

2.2 The history of heat mapping: DEMaP

The Mayor of London set a target to supply a quarter of London's energy from decentralised sources by 2025.

To this end, the DEMaP (Decentralised Energy Master Planning) programme was introduced by the London Development Agency[3] (LDA) in 2009. The LDA allocated nearly £5 million towards decentralised energy over four years from 2009, with additional support made available through the JESSICA (Joint European Support for Sustainable Investment in City Areas) fund to unlock the development of decentralised energy in London.

The DEMaP programme was developed to enable boroughs to identify opportunities for decentralised energy, and to develop the capacity to realise those opportunities. This was based on a trajectory of work packages, broken down into three phases, from initial capacity building through to feasibility study and project delivery. The heat mapping exercise was originally carried out during the first phase.

The London Heat Map was developed as part of DEMaP to help address the lack of information and certainty surrounding London's heat loads. It is intended to be used by policy and decision-makers to help identify opportunities for DE in their area and to develop new decentralised energy schemes and enable the market to make informed investment decisions without risking significant development costs.

The first round of heat mapping collected data from 23 London boroughs which were used to populate the London Heat Map (Figure 1).

[3] The functions of the London Development Agency are being folded in the Greater London Authority as a result of the government announcement in June 2010 that all Regional Development Agencies be abolished by March 2012.

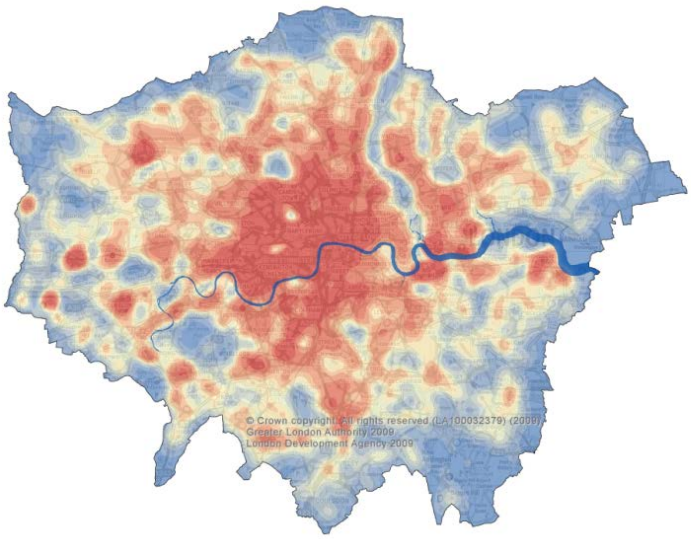

Figure 1: The London Heat Map, as viewable at www.londonheatmap.org.uk

The second round of heat mapping has been undertaken by the GLA in November 2011 and the remaining ten boroughs were invited to participate in order to complete the heat map for the entirety of the Greater London area.

The aims of the heat mapping exercise are:

- To identify potential opportunity areas for the development of decentralised energy networks across London, and
- To provide an evidence base for local authority and GLA planning policies requirements for connections to district heating networks.

The image below illustrates the status of Heat Mapping in London Boroughs. Those in red have completed Heat Mapping and the data results are available on the Heat Map website, along with a report of the opportunity area (www.londonheatmap.org.uk). Boroughs highlighted in yellow have provided data which was uploaded to the London Heat Map having completed independent data collection and mapping exercises. The Boroughs highlighted in blue are part of the final tranche of Heat Mapping currently underway.

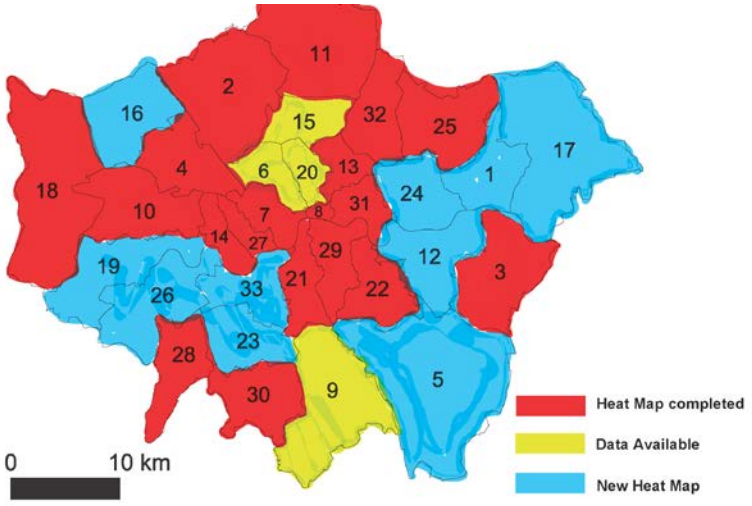

Figure 2: The Heat mapping status of London Boroughs.

Those remaining London Boroughs involved in the second round of Heat Map were:

1. London Borough of Barking and Dagenham
5. London Borough of Bromley
7. City of Westminster
12. London Borough of Greenwich
16. London Borough of Harrow
17. London Borough of Havering
19. London Borough of Hounslow
23. London Borough of Merton
24. London Borough of Newham
26. London Borough of Richmond
33. London Borough of Wandsworth

3 Policy context

3.1 UK climate change agenda

The UK Government has responded to the climate change agenda with a range of climate change legislation, targets and actions to reduce carbon (GHG) emission, including:

- Setting a national target of 80% reduction in annual GHG emissions compared to 1990 levels by 2050, with an interim target of 34% reduction by 2020
- Establishing the world's first national Climate Change Act to tackle the threat of climate change, and
- Introducing financial measures such as: the Renewables Obligation (RO); the Feed in Tariff (FIT); the Renewable Heat Incentive (RHI); and the Carbon Reduction Commitment (CRC).

Legislation is intended to support the transition to a low carbon economy – an economy that minimises environmental impact, is sustainable and limits GHG emissions. The national government's agenda is being taken forward by all the local authorities in the UK.

3.2 London Plan

The London Plan 2011 sets out the spatial development strategy for London. Chapter 5 specifically addresses London's Response to Climate Change and sets out the following policy requirements:

- **Policy 5.2** -Minimising carbon emissions – which sets out a range of CO_2 emission targets for new developments which must be achieved through a hierarchy of 'Be lean: use less energy; Be clean: supply energy efficiently and Be green: use renewable energy'.
- **Policy 5.5** – Decentralised energy networks.
  - A) **Strategic**: The Mayor expects 25 per cent of the heat and power used in London to be generated through the use of localised decentralised energy systems by 2025. In order to achieve this target the Mayor prioritises the development of decentralised heating and cooling networks at the development and area wide levels, including larger scale heat transmission networks.
  - B) **LDF preparation**: Within LDFs boroughs should develop policies and proposals to identify and establish decentralised energy network opportunities. As a minimum boroughs should:
    i. Identify opportunities for expanding existing networks and establishing new networks. Boroughs should use the London Heat Map tool and consider any new developments, planned major infrastructure works and energy supply opportunities which may arise
    ii. develop energy master plans for specific decentralised energy opportunities which identify:

-- major heat loads (including anchor heat loads, with particular reference to sites such as universities, hospitals and social housing)

-- major heat supply plant

-- possible opportunities to utilise energy from waste

-- possible heating and cooling network routes

-- implementation options for delivering feasible projects, considering issues of procurement, funding and risk and the role of the public sector.

3.3 Borough policy

Newham is progressing its Local Development Framework (LDF). The LDF is a suite of documents that will guide development in the borough in the future, and form the basis for planning decisions. The Core Strategy - an over-arching spatial plan for the borough - has been adopted. This includes policies on climate change and sustainable design and construction (Policy SC1), energy (Policy SC2) and local heat and power networks (Policy INF4). It requires major developments to meet minimum standards for sustainable design and construction (in line with the Code for Sustainable Homes and BREEAM) and re-iterates the energy requirements established in the London Plan. The Core Strategy provides policy support for existing and proposed community and district heating and cooling networks (including the Thames Gateway Heat Network) and expects that developers make provisions for existing or future connections.

Following on from the Core Strategy, the Council have commenced preparation of an additional DPD to be included in the LDF: the Detailed Sites and Policies DPD. This will include detailed development management policies and a list of potential additional development sites, of more local importance, to supplement the strategic sites already identified in the Core Strategy.

4 Decentralised Energy in London

Following on from the successful DEMaP programme, the GLA is committed to further strategic development and support to deliver more DE schemes within London, through the Decentralised Energy for London programme. Set up with €3.3m in funding, 90% of which was secured from the European Investment Bank's ELENA facility, the Mayor's Decentralised Energy for London programme will provide boroughs and other project sponsors with technical, financial and commercial assistance to develop and bring DE projects to market.

London has been home to DH networks for a number of years, with schemes in Whitehall, Pimlico, Barkantine and the City of London, to name but a few, set to be joined by many more in the near future. There will be a growth in interconnections between existing schemes, and the potential development of a number of high-capacity strategic networks, notably SELCHP, the London Thames Gateway Heat Network, and the Upper Lee Valley Strategic Heat Network transporting industrial volumes of waste heat from power stations over long distances, which could allow for truly significant carbon savings.

Existing schemes and those planned for future development are shown in the London "Vision Map" below, or can be viewed in more detail on the London Heat Map's vision layer (www.londonheatmap.org.uk).

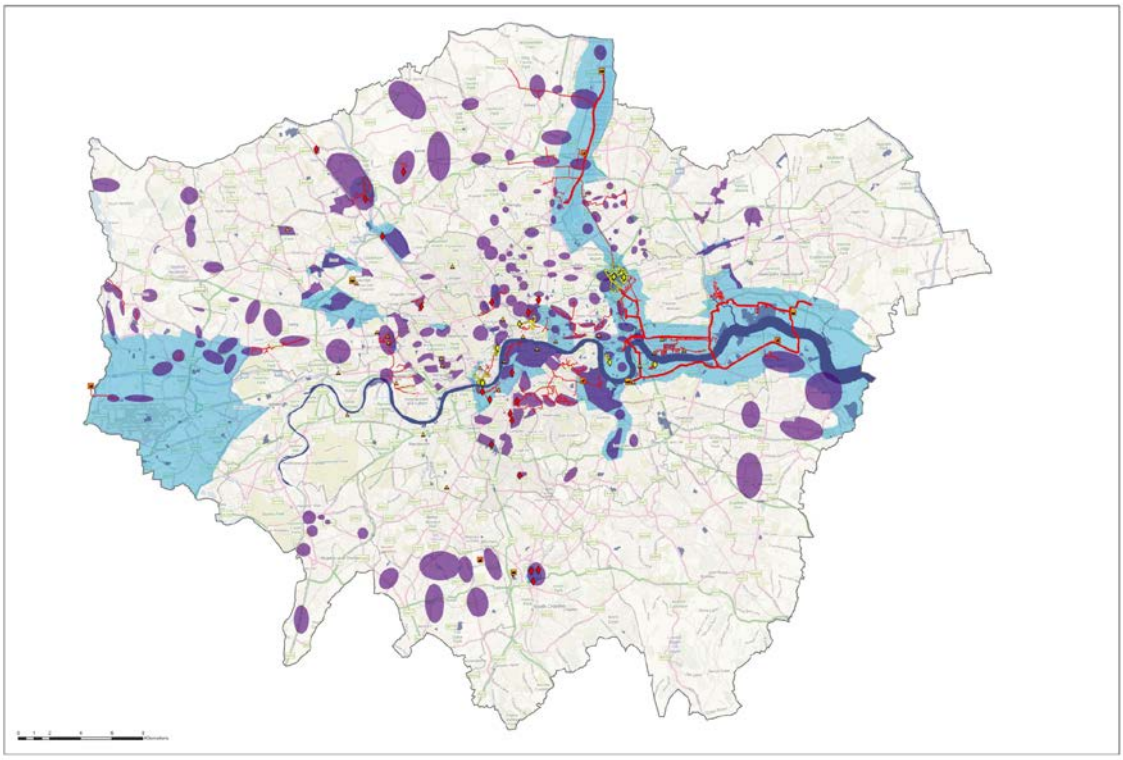

Figure 3: London 'Vision Map' for Decentralised Energy 2012

5 Methodology

The methodology for heat mapping was developed by Arup in conjunction with the LDA / GLA.

The heat mapping process identifies potential DE opportunities in each borough, and where relevant cross-borough opportunities. The process concludes with an implementation plan developed jointly with the London Borough Newham to identify how these opportunities could be progressed. The process consists of two main phases:

Phase 1: Data collection

This data collection should create a reliable database and identify:

- Major heat loads (existing and planned)
- Major heat supply plants (existing and planned)
- District Heating (DH) networks (existing and planned)

Phase 2: Identifying opportunities for potential DE schemes

This process includes the identification of 'clusters' of buildings and development areas that have the best potential for future DH networks and / or extending existing heat networks.

5.1 Phase 1: Data Collection

The aim of Phase 1 is to populate the London Heat Map with data points from which the analysis in Phase 2 can take place. These data points should identify existing and already planned heat loads, heat supply plants and district heating networks.

Some data points within the London Borough of Newham already existed on the London Heat Map from the first round of heat mapping that took place under the DEMaP programme. The data for these points had been collected from central data bases such as the London Fire and Emergency Planning Authority (LFEPA) and the London Development Database 2004 (LDD).

To complete the dataset for the London Borough of Newham, the borough was asked to source the data and verify that which was already in the London Heat Map. The following data locations were suggested to the borough to source the data:

- The former NI 185 register
- The Council's Property Services
- Specific borough documents (such as Asset Management Plans)
- Members of the borough Local Strategic Partnership
- Council's Planning Applications (for large scale applications)
- Council boiler replacement programme
- Private Landowners / Developers
- Other public sector bodies
- Display Energy Certificates (DEC)
- CRC Energy Efficiency data

The typologies used to define the heat loads in the London Heat Map are available in Appendix A.

An inception meeting was held on the Newham Dockside building on 25th January 2012 with representatives from the London Borough of Newham. Michael Whyman, Felix Onyeji, Sue Brazil, George Wigan and Trevor Whittock attended the meeting. Following the meeting, the London Borough of Newham carried out the data gathering exercise for heat mapping.

The full data set provided is available in Appendix A.

5.2 Phase 2: Identifying opportunities for potential DH networks

The aim of Phase 2 is to use the populated London Heat Map to identify opportunities for potential DH networks both within the London Borough of Newham, and across borough borders.

To do this, the following factors were considered to identify clusters of buildings with the potential to form a DH network:

- The **physical proximity and heat load density** of buildings. This is important to identify high level cluster opportunities and to identify the scale of infrastructure required to meet the demand.
- The presence of **existing anchor loads** which could be able to trigger a DE network. An anchor load is a heat load that is large, has a relatively constant load profile and is therefore suitable for a long-term heat supply or purchase contract. Anchor loads are important as they reduce the risk associated with securing connection of multiple heat loads.
- The presence of **heat load diversity** throughout the buildings identified. Diversity is important to balance the overall load profile of the DH network and make more efficient use of the heat generation source.
- The presence of **planned developments**. This is important for a number of reasons, firstly that the network/parts of the network can be built out as part of the development, reducing the disruption specifically associated with the DH network. Secondly those buildings within the development can be required to connect through their planning consent, securing heat demand. Finally, the avoided costs of installing individual heat supply plant per unit instead of smaller interface units with communal heat off-take can improve the economic and financial viability of new schemes, and often results in additional floorspace available to the developer.
- The presence of **publically owned buildings**. Public organisations can have policy objectives which may make them more likely to connect to DH networks, such as carbon reduction commitments and tackling fuel poverty.

Having a cluster of buildings which are characterised by as many of the above factors as possible is considered essential for a more efficient and cost effective DH network.

The identified clusters within the London Borough of Newham were then visualised for this report using the London Heat Map data, along with the key

reasons for their identification and the recommended next steps should the London Borough of Newham wish to investigate the cluster opportunity further.

Where buildings within an identified cluster had no fuel consumption data, this has been calculated using recognised CIBSE heat consumption benchmarks for the building typology and the gross internal floor area of the building. In cases where the floor area was also unavailable this has been approximated. The estimated capacity required for each cluster has then been calculated using the recognised average number of hours that heat is required in a year (2250hrs/year).

6 Cluster Analysis for Newham

Each of the clusters is described in more detail below. The descriptions are based on a desk top analysis of data provided by the borough and as such provide a high level indication of potential opportunities for DE schemes. It should be noted that site surveys were not carried out nor were any potential stakeholders contacted as part of this analysis. The cluster analysis represents potential opportunities that will require further feasibility and assessment before progressing to the next stage of development.

6.1 Introduction

In this section an analysis of the heat demand data is presented and it will focus mainly on:

- Identifying existing density and proximity of clusters of buildings
- Identifying existing anchor loads which could be able to drive a DE network
- Identifying the heat demand diversity
- Identifying new development proposal

The opportunity areas identified can be firstly indicated as

- Inter-Borough, and
- Cross-Borough.

Secondly another classification can be done regarding:

- short/medium term
- long term.

The first identifies clear and existing opportunity areas, the latter instead, wants to highlight how new opportunities can be brought forward in new development areas where DE is not suitable in the short term but it will in a long term planning framework.

6.2 Cluster analysis

In order to support the feasibility of a DE network and adequate level of heat demand within a certain area is required. The denser is the area, the higher is the potential for DE.

Not only density, but also a balanced heat demand is very important for DE schemes. This is because different building types have different heat requirements and usage profiles throughout a normal operating day. As an example, residential buildings have a peak heating demand twice a day normally between 7am and 9am and 6pm to 9pm, which is when people have a high requirement of Domestic Hot Water (DHW) mainly for showers. A commercial building instead, (e.g. offices and public buildings) usually has a peak heat demand in the morning between 6am to 7am, due to a boiler start up, and keeps an sort of constant profile until about 7pm to 8pm. Other buildings such as hospitals, leisure centres and laboratories have a constant high heat requirement almost 24/7.

These types of buildings are also called anchor heat loads and because they need a large and constant heat supply are therefore important actors in a DE network. Not only hospitals, laboratories and leisure centre are part of this category but also universities and big hotels.

Therefore having a cluster of buildings which satisfy the above characteristics is considered essential for a more efficient and cost effective DE network.

The possibility to identify any existing major heat supply plants in the Borough is also important for:

- implementation with the new DH network, if these still have a suitable lifetime;
- decommissioning and retrofitting existing plant in order to be part of a new DE scheme;
- connecting to a future DE network.

What is more, new developments can act a crucial part in a DE network, especially if this can be an anchor load and maybe also location of a major energy supply plant. New development can be ideal for future extensions of DE networks.

7 Potential Opportunities

7.1 Borough Overview

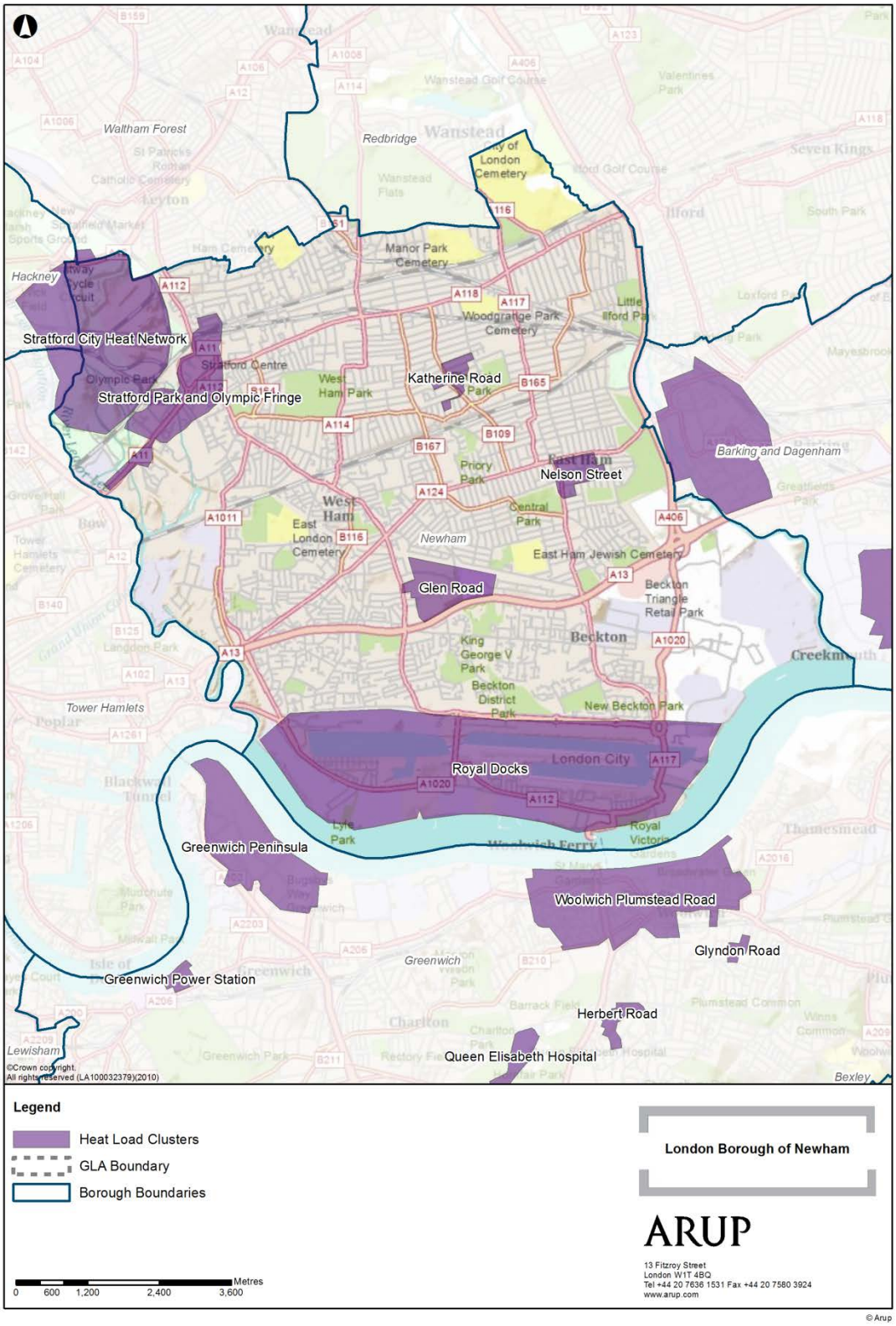

Figure 4: Overview of opportunities in the London Borough of Newham

Whilst there is a large district heating network proposed for Barking town centre, just on the eastern border with Newham, there are no significant heat loads on the Newham side to provide a cross borough opportunity of note.

7.2 Nelson Street

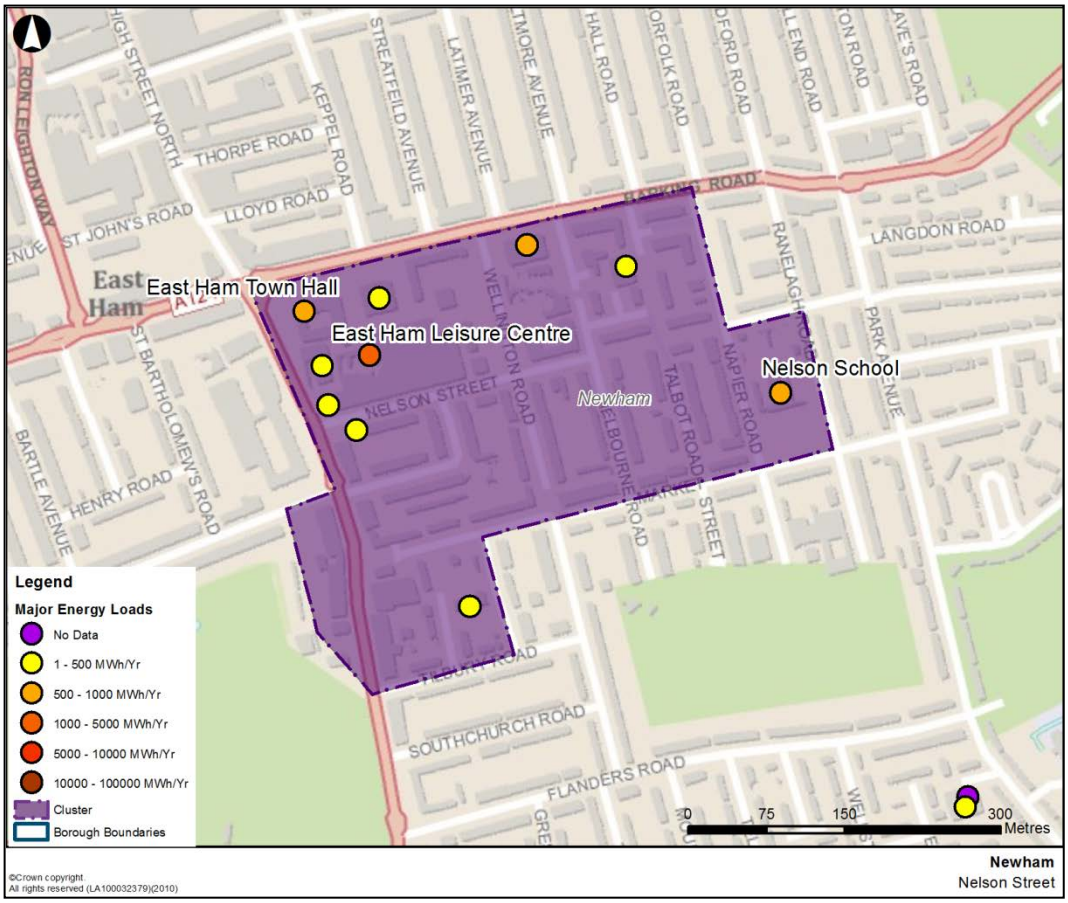

Figure 5: Nelson Street Heat Cluster

Comments

The Nelson Street cluster is comprised of 10 Buildings in a 0.15km^2 area. East Ham Leisure Centre has the largest fuel consumption, 3.2GWh/yr and may therefore constitute a suitable anchor load for a heat network in this area. There is a mix of building typologies in the cluster, all of which appear to be owned and operated by a public sector entity. Public ownership is expected to increase the viability of a DH scheme since it would be anticipated that the negotiations for connection to a network would be less complex. There are no significant geographical barriers to the installation of the scheme in the form of railways, major roads or water courses.

Any further study into the feasibility of a scheme in this area would be required to investigate the potential location of an energy centre in the area. East Ham Leisure Centre is located in the north west of the cluster, close to East Ham Town Hall as shown in Figure 5. There may be potential to locate a CHP engine within the leisure centre which could then supply the nearby buildings. This is however subject to engagement and discussion with East Ham Leisure Centre, and may consider plant replacement programmes for their existing equipment.

With the exception of the leisure centre, no other significant heat loads have been identified in this area, pending additional information, with the next largest being Nelson School (0.66GWh/yr) and East Ham Town Hall (0.73GWh/yr). There does appear to be a small group of closely located buildings in the north east of the cluster which may present a more feasible opportunity on a smaller scale. Any scheme in this area would likely require additional large loads to be identified or developed before the next stage of feasibility work would be done.

Further steps:

- Explore the vicinity for additional public / private loads that have not yet been captured in this analysis.

Existing Buildings

Name	Ownership	Typology	Fuel Consumption (MWh/yr)
East Ham Leisure Centre	Public	Sport & Leisure facilities	3,276
East Ham Town Hall, Barking Road	Public	Other Public Buildings	734
Nelson School	Local education Authority	Educational Facilities	656
East Ham Town Hall Annexe, 330 Barking Road	Public	Other Public Buildings	604
High St. South 1, Old Fire Station	Public	Other Public Buildings	256
St Michael's School	Local education Authority	Educational Facilities	226
East Ham Library	Public	Other Public Building	219
Old Technical College East Ham Site	Local education Authority	Educational Facilities	99
Early Start Vicarage, (Canberra Centre) Canberra Rd E6	Public	Church	90
Nelson St. 2-4	Public	Residential	6
Total Annual Fuel Demand			**6166 MWh/yr**
Total Estimated Heat Demand			**4933 MWh/yr**
Estimated Peak Heat Load			**2.19 MW**

7.3 Katherine Road

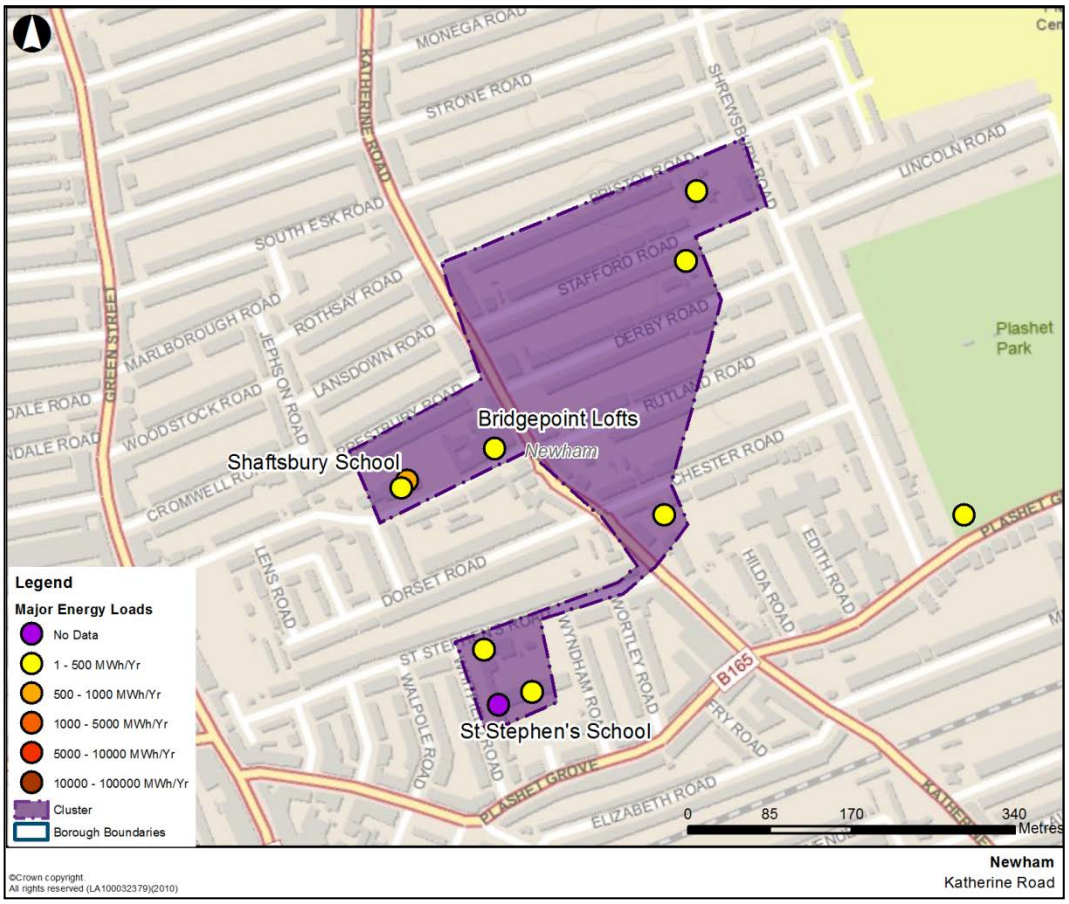

Figure 6: Katherine Road Cluster

Comments

The Katherine Road cluster contains seven buildings within an area of 0.1km^2. This cluster has been identified due to the medium density of buildings in the area. Data for four of the buildings have been estimated using benchmarks where real data was unavailable as indicated in the table below. The majority of the buildings are schools and are likely to have a similar heat load profile during the day, with very little to no heating requirement during the school holidays. DH networks are better suited to a cluster of more varied building typologies, however to determine the suitability of this cluster, the building use throughout the year and heat load profile should be fully identified before a decision can be made.

No anchor loads have been identified in this cluster that would present a strong case for a DH scheme since all the buildings have a comparatively low heat demand. The site with the largest fuel consumption is Shaftsbury Primary School (0.5GWh). This site appears to be comprised of mostly pre-1900's buildings and it is unclear how the buildings are heated. Further investigatory work into this area is recommended only if a significant heat load can be identified in the area which could anchor a network and provide a suitable location for an energy centre. There are no significant barriers to installation immediately apparent such as major roads, railway lines or water courses, however future investigation should determine any access issues that may be encountered on these small residential streets.

Existing Buildings

Name	Ownership	Typology	Fuel Consumption (MWh/yr)
Shaftesbury School	Local Education Authority	Education Facility	496
St Stephen's School	Local Education Authority	Education Facility	417
Bridgepoint Lofts	Private	Residential	325*
William Davies Primary School	Local Education Authority	Education Facility	243*
Grangewood Independent School	Local Education Authority	Education Facility	148*
St Stephen's Children's Centre	Local Education Authority	Education Facility	89
Jamiah Madaniah Primary School	Local Education Authority	Education Facility	44*

* Estimated figures based on CIBSE guidelines

Total Fuel Consumption	**2695 MWh/yr**
Total Estimated Heat Demand	2156 MWh/yr
Estimated Peak Heat Load	0.96 MW

Further steps:

- Explore the vicinity for additional public / private loads that have not yet been captured in this analysis.

7.4 Glen Road

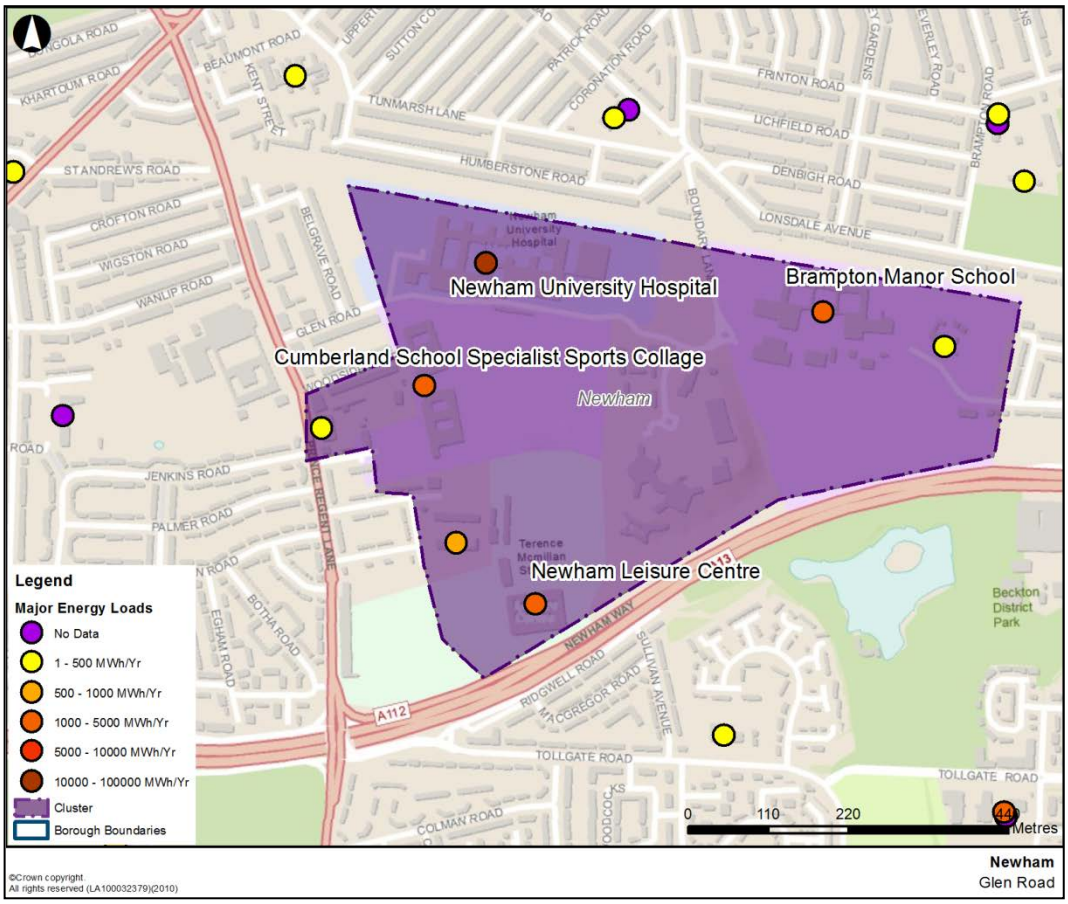

Figure 7: Glen Road Cluster

Comments

The Glen road cluster covers an area of 0.36km^2 north of the A13. The cluster is centred over Newham University Hospital which could act as an anchor load for any heat network in the area due to its high fuel consumption of 8.1GWh/yr. Additional significant loads exist in the area in the form of Cumberland School Specialist Sports Collage and Newham Leisure Centre. These buildings also have a high heat demand and are of different typology, which would suit the application of a DH scheme in the area since the anticipated head load profile may have a constant high base load which could be served by a CHP engine.

All of the buildings in the cluster are owned or operated by the public sector, making the negotiation of connection agreements to a DH scheme simpler. The A13 would pose a significant geographical constraint to the expansion of the cluster to the south; however the opportunity in the area identified appears to warrant further investigation without the requirement for future expansion to the south since there does not appear to any clearly identifiable geographical barriers.

Further steps:

- Engage with the identified anchor loads to establish their suitability for inclusion in a network and determine their future plant replacement programme for opportunities.
- Explore the vicinity for additional public / private loads that have not yet been captured in this analysis.

Existing Buildings

Name	Ownership	Typology	Fuel Consumption (MWh/yr)
Newham University Hospital*	NHS	NHS	8134*
Cumberland School Specialist Sports College*	Other Public	Education facilities	2501*
Newham Leisure Centre*	Local Government	Sport & Leisure facilities	1838*
Brampton Manor School	Local Education Authority	Education facilities	1554
Tollgate School	Local Education Authority	Education facilities	618
Plaistow Fire Station	Other public	Fire stations	465
Roman Road School	Local Education Authority	Education facilities	141

* Estimated figures based on CIBSE benchmark guidelines

Total Fuel Consumption	**15251 MWh/yr**
Total Estimated Heat Demand	**12201 MWh/yr**
Estimated Peak Heat Load	**5.42 MW**

7.5 Royal Docks

Map

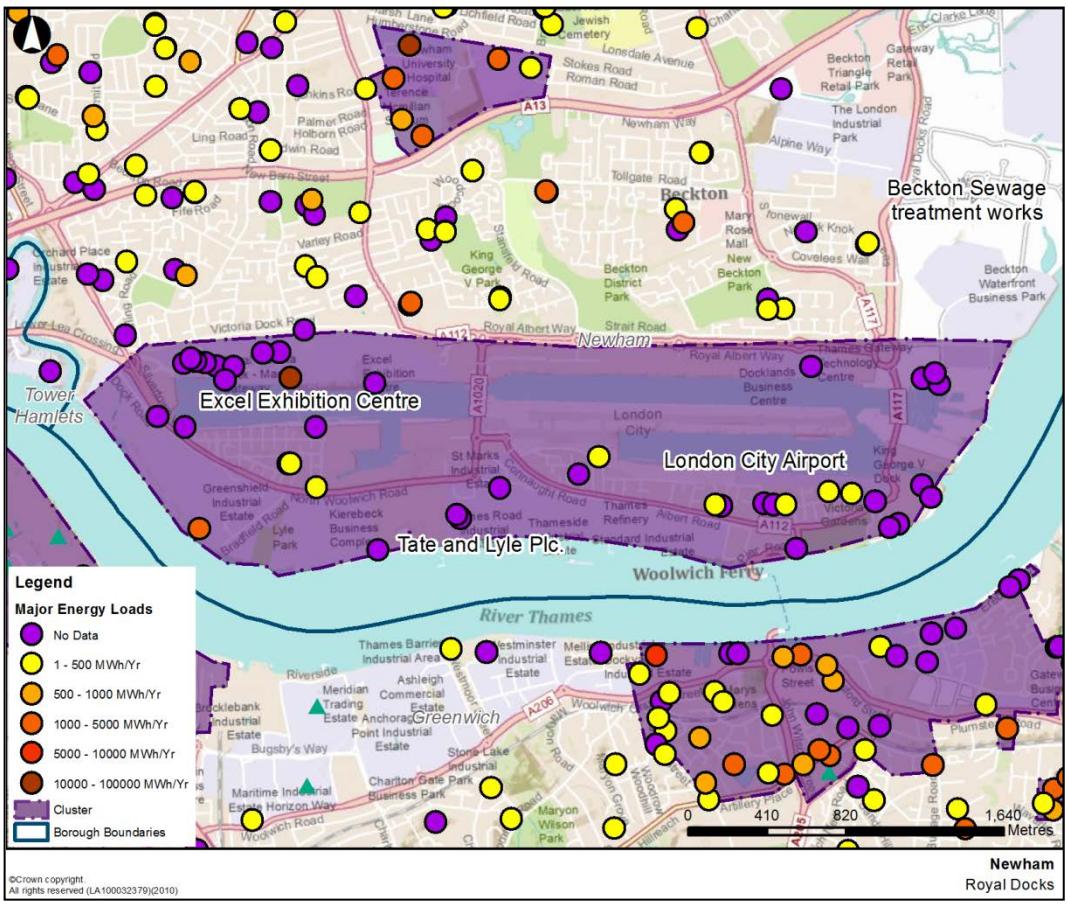

Figure 8: Royal Docks Cluster

Comments

The Royal Docks cluster encompasses an area which has been identified as an opportunity as part of the London Thames Gateway Heat Network (LTGHN) feasibility study, completed in January 2010[4].

The Royal Docks area has been identified as a regeneration opportunity, the details of which are outlined in the report produced by Newham Borough Council and the Mayor of London in March 2012: 'Royal Docks, A vision for the Royal Docks'. The report highlights the major developments in the region, including Canary Wharf, The ExCel Centre, the O2 Arena, London City Airport and The University of East London, and also presents the aim to further develop the area in the five years following the Olympic Games. In doing so it makes the following statement:

> *"We will encourage a concentration of new low carbon technologies, manufacturing and research. We will invest in new technologies around waste and energy and we will support this through our land development,*

[4] Reference: London Thames Gateway Heat Network: North-side Project Business Plan, January 2010, London Development Agency

infrastructure, business support and training programmes. Furthermore we will want residential and business development to deliver high-standards of environmental performance. We will invest in decentralised energy grids to provide lower-cost heat for domestic and commercial use."

The LTGHN, should it get built out, fits into that plan as a means to provide decentralised heat on a large scale. The proposals for the scheme identified the Tate and Lyle sugar refinery as one of the two principle suppliers for heat to the north of the Thames, which currently has a fuel consumption of 730GWh/yr. The other major heat supply could come from Barking Power Station to the east of Newham. The feasibility study identified that T&L would make a suitable heat supply plant since it has an excess capacity, 80MW_{th} in total, which could be supplied to other consumers.

The LTGHN study identified the Royal Docks network as the first phase in a larger scheme, the details of which are outlined below:

Phase	Sub-Phase	Date	Location / Clients Served	Heat Supplier
1	A	2010 to 2014	ExCel and Royal Docks	T&L
	B		Barking Town Centre, Barking Riverside	BPS
	C		FOCUS	BPS
	D		Gallions (Albert Basin)	T&L
2	A	2015 to 2017	South Dagenham	BPS
	B		Link, Barking Town Centre to Albert Basin	BPS
	C		Canning Town, West Ham, Tower Hamlets, Stratford	T&L
3	A	2016 to 2017	Dagenham to Beam Reach	BPS

Figure 9: LTGHN phasing programme for developments North of the Thames (Note, T&L: Tate and Lyle, BPS: Barking Power Station)

This scheme has not yet been built out, so there may be opportunities to negotiate the connection of additional buildings along the route, something which would be recommended for discussion with the GLA.

There is a CHP facility at Beckton Sewage treatment works which has an installed thermal capacity of 10.8MW_{th}. At present it is unclear how much of this heat is used for the treatment process, however there may be some heat available to feed into the network. Alternatively, there may be times when heat intensive processes will require additional energy from a network. Since the plant may act as an anchor load, or potential supply for the network it should be included in any future feasibility study regarding a larger scheme due to the distances involved (Beckton

Sewage treatment works is approximately 3.5km from the Tate and Lyle Sugar Refinery).

Due to the significant heat demand from industrial and large industrial entities in this area, including London City Airport and the ExCel Centre among others, this is initially considered to be a feasible opportunity for a DH network, even when considered independently of the larger LTGHN scheme. The large base load would suit the application of large scale CHP deployment since a constant base requirement would be anticipated.

The table below sets out the existing buildings within this cluster that could provide heat loads for a district heating network. Those buildings already included in previous feasibility studies have been identified as *Data Unavailable for heat mapping purposes. Additional analysis and research would be required, along with updates on the current status of those developments to provide an update to these figures.

Further steps:

- Engage with identified anchor loads and supply points: Tate and Lyle, the ExCel Centre etc. to establish their suitability for inclusion in a network and determine their future plant replacement programme for opportunities.
- Open a dialogue with the developers working towards the plans set out in the report for redevelopment of the Royal Docks by Newham Council and the Mayor of London.
- Explore the vicinity for additional public / private loads that have not yet been captured in this analysis.

Existing Buildings

Name	Ownership	Typology	Fuel Consumption (MWh/yr)
Tate And Lyle Plc	Private	Private commercial (> 9,999 m2)	728,779
London International Exhibition Centre Plc	Private	Private commercial (> 9,999 m2)	22923
J Knights (Abp) Limited	Private	Private commercial (> 9,999 m2)	1889
Britannia Village Primary	Local Education Authority	Education facilities	335
Drew School	Local Education Authority	Education facilities	289
Fernhill Street. 242	Private	Residential	249
Silvertown Fire Station	Other public	Fire stations	214
New Directions Centre (Old Story School Site)	Local Education Authority	Education facilities	188
Woodman Street Cc. Woodman Street E16 2nf			4
North Woolwich Library	Public	Other Public	1
University Of East London	Private	Education facilities	Data Unavailable*

Britannia Village Primary School	Local Education Authority	Education facilities	Data Unavailable*
The Training School	Local Education Authority	Education facilities	Data Unavailable*
Drew Primary School	Local Education Authority	Education facilities	Data Unavailable*
Custom House Hotel	Private	Hotels (> 99 units or 4,999 m2)	Data Unavailable*
Crown Plaza Hotel	Private	Hotels (> 99 units or 4,999 m2)	Data Unavailable*
Sunborn Yacht Hotel	Private	Hotels (> 99 units or 4,999 m2)	Data Unavailable*
E T A P Hotel	Private	Hotels (> 99 units or 4,999 m2)	Data Unavailable*
Gallions Hotel	Private	Hotels (> 99 units or 4,999 m2)	Data Unavailable*
Roundhouse Hotel	Private	Hotels (> 99 units or 4,999 m2)	Data Unavailable*
Waterfront Studios Business Centre	Private	Multi-address buildings	Data Unavailable*
The Oxygen	Private	Multi-address buildings	Data Unavailable*
Western Beach Apartments	Private	Multi-address buildings	Data Unavailable*
Westgate Apartments	Private	Multi-address buildings	Data Unavailable*
Adriatic Apartments	Private	Multi-address buildings	Data Unavailable*
Westland House	Private	Multi-address buildings	Data Unavailable*
Latitude Court	Private	Multi-address buildings	Data Unavailable*
29 Lowestoft Mews London	Private	Multi-address buildings	Data Unavailable*
Coral Apartments	Private	Multi-address buildings	Data Unavailable*
Eastern Quay Apartments	Private	Multi-address buildings	Data Unavailable*
419 Fishguard Way London	Private	Multi-address buildings	Data Unavailable*
7 Fishguard Way London	Private	Multi-address buildings	Data Unavailable*
187 Barrier Point Road London	Private	Multi-address buildings	Data Unavailable*
Navigation Court	Private	Multi-address buildings	Data Unavailable*
The Grainstore	Private	Multi-address buildings	Data Unavailable*

Dunedin House	Private	Multi-address buildings	Data Unavailable*
Alaska Apartments	Private	Multi-address buildings	Data Unavailable*
Queensland House	Private	Multi-address buildings	Data Unavailable*
49 Wards Wharf Approach London	Private	Multi-address buildings	Data Unavailable*
44 Wards Wharf Approach London	Private	Multi-address buildings	Data Unavailable*
Atlantic Apartments	Private	Multi-address buildings	Data Unavailable*
107 Fishguard Way London	Private	Multi-address buildings	Data Unavailable*
North Woolwich Old Station Museum	Private	Museums & Art Galleries	Data Unavailable*

* This data was not available to this study, but may be included in the detailed feasibility study conducted for the Royal Docks.

7.6 Stratford High Street and Olympic Fringe

Map

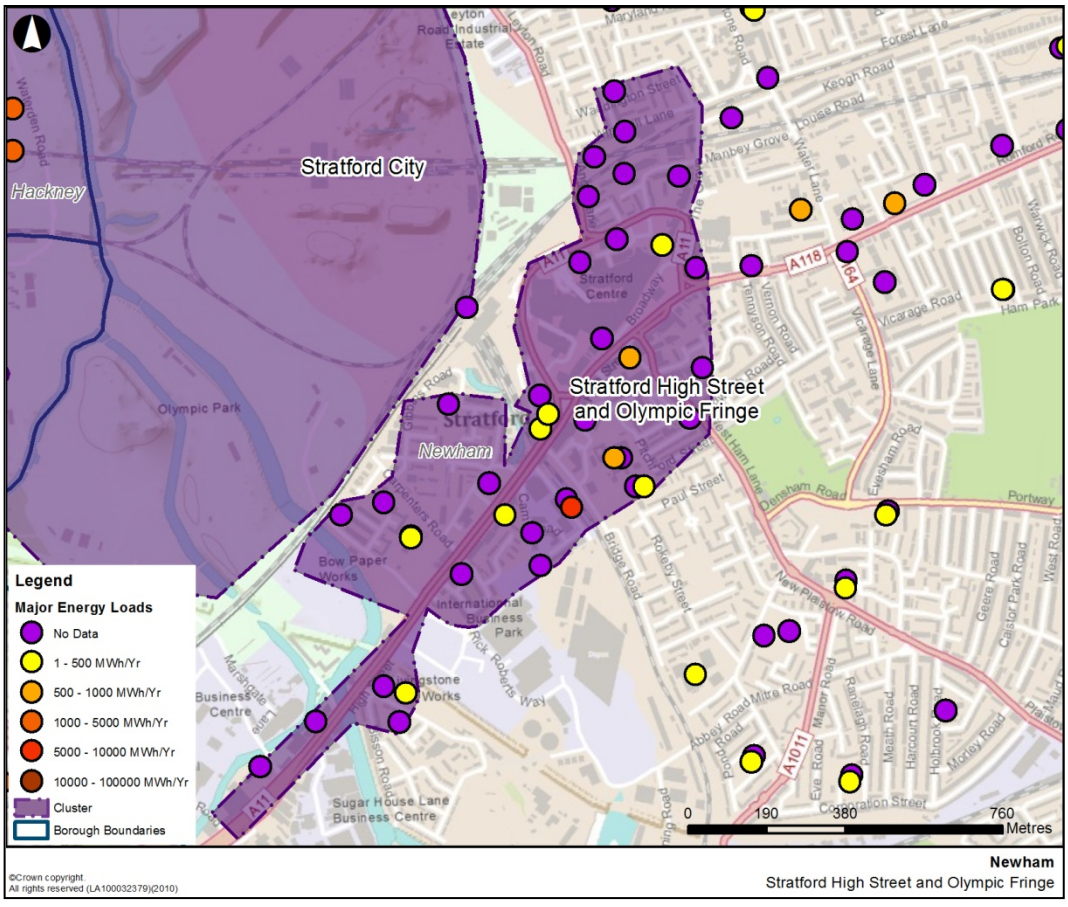

Figure 10: Stratford High Street and Olympic Fringe Cluster

Comments

The Stratford High Street and Olympic Fringe cluster is a high density region of Newham, close to the newly developed Olympic Park. The area identified has already been subject to a detailed feasibility study as part of the wider London Thames Gateway Heat Network. Further information on the LTGHN can be found on the LTG website. http://www.ltgheat.net/

The Olympic Fringe cluster covers an area of approximately 0.7km^2 centred on Stratford High Street and is made up of 37 buildings (10 of which had consumption data available to this study).

Three schemes have been mapped out in previous feasibility studies, Stratford High Street, Stratford Town Centre and Bromley by Bow & Sugar House Lane. The Stratford High Street and Olympic Fringe cluster identified in this study encompasses these sites. The previous studies identified commercial feasibility for the expansion of the Olympic heat network outside the site exclusion zone that marks the boundary of the Olympic Park. The first external connection was completed in summer 2011 to Halo (Genesis), a 3MW$_{th}$ connection to a development comprised of 500 homes.

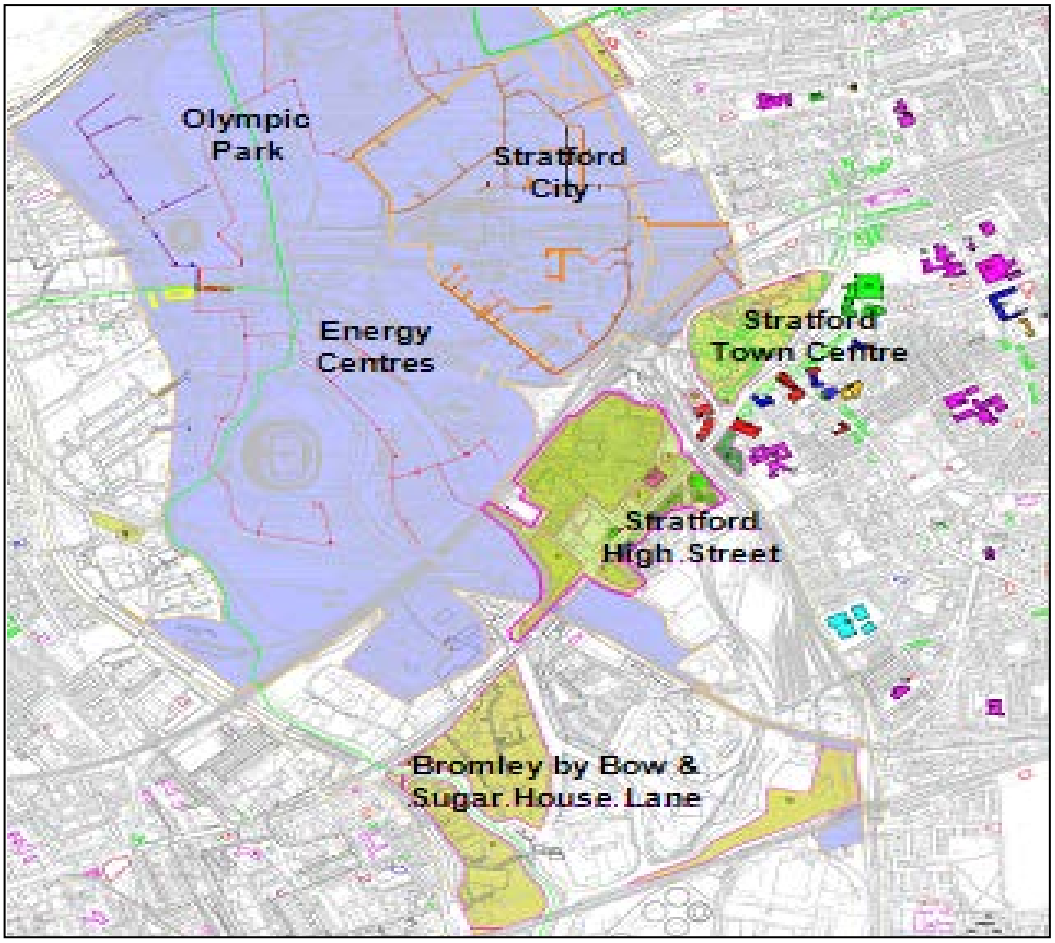

Figure 11: Overview of area from Olympic Fringe feasibility study

Further Steps

- Detailed review feasibility studies for Stratford High Street and Olympic Fringe DH networks and how a scheme would integrate into the larger Stratford City scheme
- Collect data that was unavailable to this study to determine the anticipated fuel consumption and peak load for a DE network in this area.

Existing Buildings

Name	Ownership	Typology	Fuel Consumption (MWh/yr)
Stratford Workshops	Unknown	Unknown	9333
Rokeby Building Pitchford St	Unknown	Unknown	801
Old Town Hall West Ham	Unknown	Unknown	633
J.F.Kennedy School	Unknown	Education facilities	451
Bridge House	Unknown	Unknown	391
Carpenters School	Unknown	Education facilities	260
Stratford Lsc 112 The Grove E15 1ns	Unknown	Unknown	168
Early Start Stratford, Abbey Lane E15	Unknown	Unknown	134
High St. Stratford 327, Criminal Justice Intervention	Unknown	Unknown	37
Broadway House	Unknown	Unknown	21
Department Of Social Security	Central government	Central government estate	Data Unavailable*
Employment Tribunal Service	Central government	Central government estate	Data Unavailable*
Hm Revenue & Customs	Central government	Central government estate	Data Unavailable*
University Of East London	Private	Education facilities	Data Unavailable*
Rokeby Secondary School	Local Education Authority	Education facilities	Data Unavailable*
Alphabet School	Local Education Authority	Education facilities	Data Unavailable*
Stepping Stones Afterschool Care	Public	Education facilities	Data Unavailable*
Ibis Hotel	Private	Hotels (> 99 units or 4,999 m2)	Data Unavailable*
Estella Apartments	Private	Multi-address buildings	Data Unavailable*
Icona Point	Private	Multi-address buildings	Data Unavailable*

Albert Bigg Point	Private	Multi-address buildings	Data Unavailable*
1 Gerry Raffles Square London	Private	Multi-address buildings	Data Unavailable*
Flat 11 1 Angel Lane London	Private	Multi-address buildings	Data Unavailable*
Dennison Point	Private	Multi-address buildings	Data Unavailable*
Brimstone House	Private	Multi-address buildings	Data Unavailable*
Holden Point	Private	Multi-address buildings	Data Unavailable*
Burford Wharf Apartments	Private	Multi-address buildings	Data Unavailable*
Hallings Wharf Studios	Private	Multi-address buildings	Data Unavailable*
Bellhaven	Private	Multi-address buildings	Data Unavailable*
Aubrey Moore Point	Private	Multi-address buildings	Data Unavailable*
Central House 32-66	Private	Multi-address buildings	Data Unavailable*
Lund Point	Private	Multi-address buildings	Data Unavailable*
The Lock Building	Private	Multi-address buildings	Data Unavailable*
Peter Heathfield House	Private	Multi-address buildings	Data Unavailable*
Discover (Visit Britain Assessed)	Private	Museums & Art Galleries	Data Unavailable*
Stratford Circus Ltd	Private	Museums & Art Galleries	Data Unavailable*
Stratford Police Station, Metropolitan Police	Other public	Police stations	Data Unavailable*

* This data was not available to this study, but may be included in the detailed feasibility study conducted for the Olympic Fringe.

7.7 Stratford City

Map

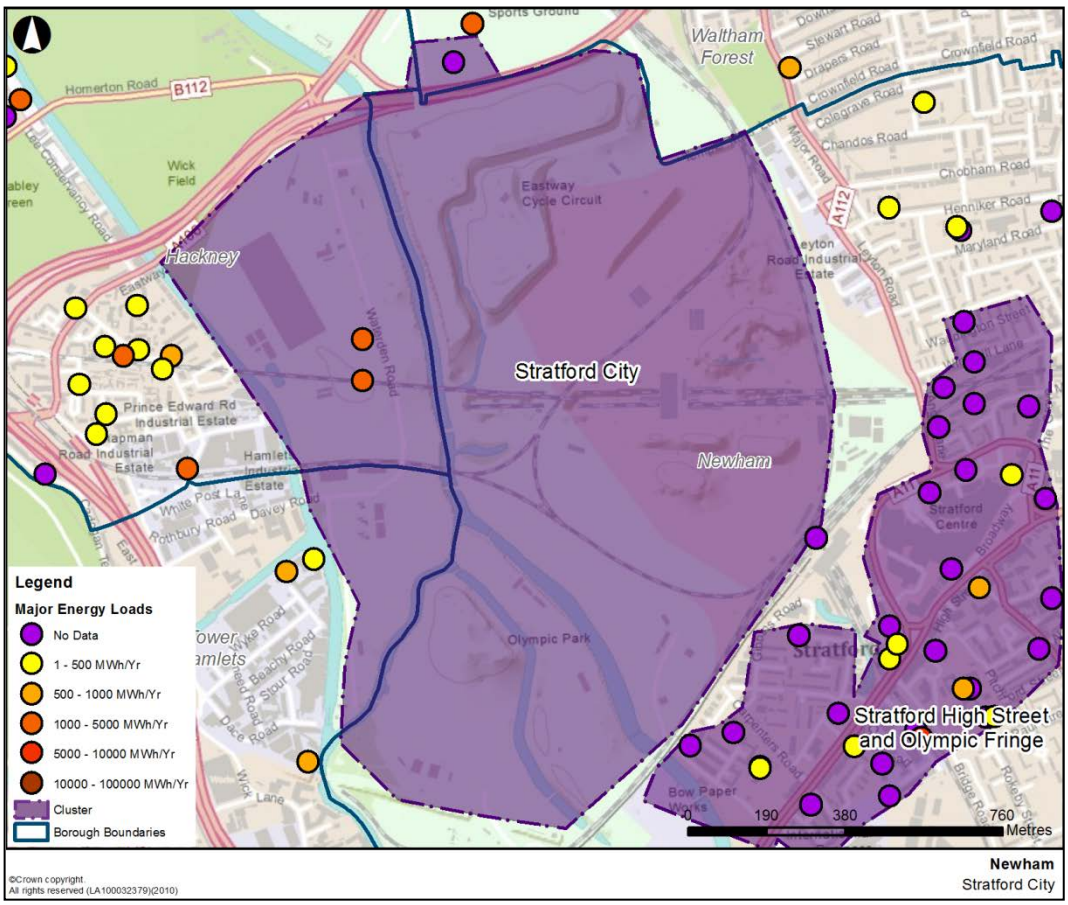

Figure 12: Stratford City Cluster

Comments

The Stratford City cluster covers the Olympic Park, built to host the Olympic Games in 2012. There is an existing DE network in the park which aimed to act as a catalyst for the large scale deployment of DE schemes in the east of London. This cluster also sits within the London Boroughs of Hackney and Tower Hamlets, so early engagement with these authorities is recommended when considering future expansion of the existing Olympic DE schemes.

The Olympic Park Community Energy Scheme is currently being completed and will be operated under a Concession Agreement entered into between the Olympic Delivery Authority, Stratford City Developments Ltd and Cofely East London Energy Ltd, whose parent company is GDF Suez. The concession lasts for 40 years from April 2008.

Two energy centres house CHP sites in the Olympic park, King's Yard on the west side and Stratford City Energy Centre which will provide power to the Stratford City retail and entertainment venues and the eastern side of the Olympic Park. Following the games, the legacy plan will see the site redeveloped into a mixed use area, with the addition of commercial spaces and an extra 7000 homes. During this redevelopment work, there may be opportunities to expand the

scheme into the London Borough of Newham to provide energy to the surrounding area.

The Olympic Legacy DE scheme development and expansion presents a number of issues when considering the future of the scheme. These issues are both commercial and regulatory and will need to be overcome with close collaboration from all stakeholders involved, hence early engagement following the games is essential. These stakeholders are the Olympic Park Legacy Company (OPLC), main development partners for the area and Cofely, the district energy scheme owner and operator.

As part of the legacy work done during the design of the scheme, points of connection outside the Olympic Park were identified and are shown in Figure 13 below. Connection points B and C on the map below feed into the London Borough of Newham. The first connection ($3MW_{th}$) from the park was from point C, to Halo (Genisis) in Summer 2011.

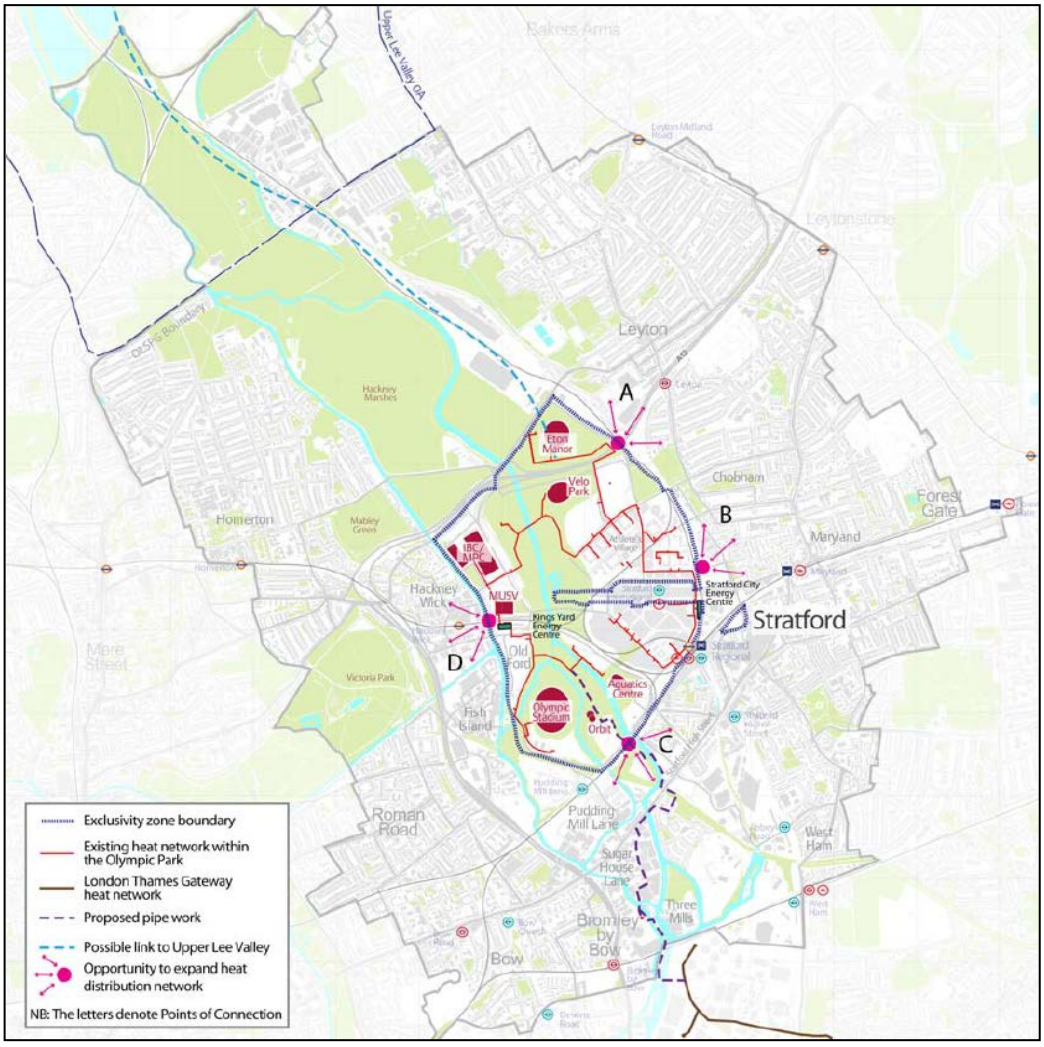

Figure 13: Points of connection outside the Olympic Park[5]

[5] Source: Olympic Legacy Supplementary Planning Guidance, Energy Study, December 2011 Produced by the Greater London Authority

Further Steps

- Fully review plans for the installed network and feasibility studies for how a fringe scheme would integrate into the Stratford City network.
- Engage with stakeholders to determine their support for growing the DH scheme.

8 Implementation Plan

The Implementation Plan has been proposed by Arup for review by the Borough of Newham, based on the priorities and specifics for delivering each DE opportunity.

DE Opportunity Area	Priority	Constraints	Next Steps for delivering DE schemes
Royal Docks	High	Build out of the London Thames Gateway Heat Network Construction of proposed development	Review existing feasibility study to determine next steps. Ensure opportunities for creating networks and locating energy centres are fully explored for new development sites. Engage with identified anchor loads and supply points: Tate and Lyle, the ExCel Centre etc. to establish their suitability for inclusion in a network and determine their future plant replacement programme for opportunities. Open a dialogue with the developers working towards the plans set out in the report for redevelopment of the Royal Docks by Newham Council and the Mayor of London.
Stratford High Street and Olympic Fringe	High	Submission of applications for proposed developments	Review existing feasibility study to determine next steps. Open dialogue with developer to determine prospects of connecting to a DH network. Ensure opportunities for creating networks and locating energy centres are fully explored for new development sites.
Stratford City – Olympic Park	High	Possible commercial and regulatory issued from all stakeholders involved in the Olympic park network	Review existing plans and feasibility study to determine next steps regarding connection to additional buildings. Open dialogue with developer to determine prospects of connecting to a DH network. Ensure opportunities for creating additional networks and locating energy centres are fully explored for new development sites.
Nelson Street	Medium	Lack of suitable anchor load in region.	Explore the vicinity for additional public / private demand that has not yet been captured in this analysis, in particular looking for potential anchor loads Further analysis required though engagement with potential anchor loads to determine suitability. Investigation on a possible Energy Centre location within the cluster

Glen road	Medium		New energy demand analysis based on real metered data recommended to fully understand the scheme feasibility Explore the vicinity for additional public / private demand that has not yet been captured in this analysis, in particular looking for potential anchor loads Engage with anchor loads to determine prospects for scheme.
Katherine Road	Low	Lack of suitable anchor load Lack of diversity	Explore the vicinity for additional public / private demand that has not yet been captured in this analysis, in particular looking for potential anchor loads

9 Conclusions and Recommendations

Based on the data made available in this heat mapping exercise, it has been found that there are a number of heat load clusters that offer varying degrees of opportunity for the implementation of DE and DH schemes in the London Borough of Newham. These are highlighted, and further steps are briefly discussed below.

9.1 Opportunity areas

Based on the data made available in this heat mapping exercise, it has been found that there are a number of high potential heat load clusters that offer opportunities for the implementation of DH schemes in the London Borough of Newham. These are listed below:

1. Stratford City - Olympic park legacy
2. Stratford High Street and Olympic fringe
3. Royal Docks

All the above listed areas have already been mapped with a feasibility study, but it is considered beneficial to undertake further analysis in order to understand their suitability for:

- Connection to existing and/or proposed networks;
- Connection to additional public / private loads that have not yet been captured in this analysis;
- Determine their future plant replacement programme.

Elsewhere in the borough, opportunities are perhaps not as high, but the Nelson Street and the Glen Road clusters are still identified as having significant potential.

9.2 Next steps

At this stage a general recommendation before taking any clusters forward for additional feasibility investigation work would be to acquire greater knowledge of other potential loads in the cluster areas. Whilst this study covered the whole borough and was necessarily high-level, having identified the high-opportunity areas it should now prove more resource efficient to find additional information on additional potential loads within the clusters and in their immediate surroundings.

Clusters containing existing loads served by central boilers or community heating systems would benefit from investigation into the conditions of existing plant, and likely replacement dates.

Clusters with potential physical barriers to network build-out, such as railway lines or main roads would benefit from consideration being given to the feasibility of crossing these obstacles.

Where new developments are determined to impact the viability of any scheme, consideration could be given to requiring these to connect to any eventual DH network, or at least incorporating DH-readiness into their heating systems.

Further cluster-specific recommendations can be found in the Implementation Plan in Section 7.

9.3 Additional opportunities for DE

It should also be noted that there may be other potential opportunities in the borough that achieve the wider aims of decentralised energy schemes, namely; decarbonisation of the energy supply, reduced fuel poverty and increased security of supply.

To fully understand the opportunities for wider decentralised energy opportunities is outside the scope of this Heat Map report, which has specifically focused on opportunities for developing heat networks within the London Borough of Newham. A more detailed renewable and low carbon energy resource study would be required to identify and analyse the potential for any such programmes of work within the borough. These other programmes of work could include:

- Implementing other technological interventions such as solar thermal, small scale biomass boilers, ground source heat pumps, air source heat pumps, photovoltaic panels (PV) and appropriately sized wind turbines
- Contributing to the decarbonisation of the national gas and electricity grids, perhaps through energy from waste mechanisms or other renewable resources
- Identifying a suitable addition to any proposed Community Infrastructure Levy (CIL) that would allow the borough to fund carbon reduction infrastructure
- Setting up a local carbon fund collected through the planning process to enable the borough to prioritise carbon reduction programmes

Ultimately these programmes of work should help the London Borough of Newham to meet their carbon reduction targets as well as contribute to the Mayor of London's carbon reduction commitment of 60% by 2025.

Appendix A

Maps and populated template

A1 Populated templates

A1.1 Major Heat Loads

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
539224	184521	Active Plus	Ithaca House, Romford Road, London, Greater London	E15 4LJ	-	No	Sport & Leisure facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539831	184813	Atherton Leisure Centre	Romford Road, London	E15 4JF	-	No	Sport & Leisure facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540462	182437	Balaam Leisure Centre	Balaam Street, London	E13 8AQ	-	No	Sport & Leisure facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
542712	183505	East Ham Leisure Centre	324, Barking Road, London	E6 2RT	-	No	Sport & Leisure facilities	-	-	3276.0	-	-	-	-	-	-	-	-	-	-	-	DEC Database 2011	No	-	Newham	-	-
540185	183296	Fit for Life Health Club	5-7, High Street, London	E13 0AD	-	No	Sport & Leisure facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539203	181727	New Docklands Steam Club	30, Stephenson Street, London	E16 4SA	-	No	Sport & Leisure facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541373	181949	Newham Leisure Centre	281, Prince Regent Lane, London	E13 8SD	-	No	Sport & Leisure facilities	-	-	2298.0	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539830	180913	Peacock Gymnasium	Caxton Street North, London	E16 1JL	-	No	Sport & Leisure facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
544250	182744	Powerleague	Norwegian Playingfields, Jenkins Lane, Barking	IG11 0AD	-	No	Sport & Leisure facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538711	184207	Department of Social Security	Jubilee House 2 Farthingale Walk ,London	E15 1AN	Central government	No	Central government estate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538861	184345	Employment Tribunal Service	44 Broadway ,London	E15 1XH	Central government	No	Central government estate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538711	184207	HM Revenue & Customs	Jubilee House 2 Farthingale Walk ,London	E15 1AW	Central government	No	Central government estate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540581	181606	Jobcentre Plus	Kilner House 197 Freemasons Road ,London	E16 3PD	Central government	No	Central government	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
							estate																				
538587	183995	University of East London	Duncan House, High Street, London	E15 2JB	Private	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539469	184635	University of East London	Romford Road, London	E15 4LZ	Private	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
543391	180748	University of East London	East Building 4, University Way, London	E16 2RD	Private	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539695	183443	University of East London	Holbrook House, Holbrook Road, London	E15 3EA	Private	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538398	183866	CARPENTERS PRIMARY SCHOOL	CARPENTERS PRIMARY SCHOOL	E15 2JQ	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538944	183986	JOHN F KENNEDY SPECIAL SCHOOL	JOHN F KENNEDY SPECIAL SCHOOL	E15 4RZ	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538907	184055	ROKEBY SECONDARY SCHOOL	ROKEBY SECONDARY SCHOOL	E15 4RZ	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538917	184847	ALPHABET SCHOOL	ALPHABET SCHOOL	E15 1PG	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538884	185166	COLEGRAVE PRIMARY SCHOOL	COLEGRAVE PRIMARY SCHOOL	E15 1JY	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539230	183332	MANOR PRIMARY SCHOOL	MANOR PRIMARY SCHOOL	E15 3BB	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539454	183758	REBECCA CHEETHAM NURSERY SCHOOL	REBECCA CHEETHAM NURSERY SCHOOL	E15 3JT	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539554	183926	WEST HAM CHURCH PRIMARY SCHOOL	WEST HAM CHURCH PRIMARY SCHOOL	E15 3QG	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539048	184739	STEPPING STONES AFTERSCHOOL CARE	STEPPING STONES AFTERSCHOOL CARE	E15 1NS	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539834	184464	PARK PRIMARY SCHOOL	PARK PRIMARY SCHOOL	E15 4AE	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539321	185350	MARYLAND PRIMARY SCHOOL	MARYLAND PRIMARY SCHOOL	E15 1SL	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539224	185147	ST. FRANCIS RC PRIMARY SCHOOL	ST. FRANCIS RC PRIMARY SCHOOL	E15 1HB	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539224	185147	ST. FRANCIS RC JUNIOR SCHOOL	ST. FRANCIS RC JUNIOR SCHOOL	E15 1HD	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539974	185050	EARLHAM PRIMARY SCHOOL	EARLHAM PRIMARY SCHOOL	E7 9AW	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
540476	183882	SELWYN PRIMARY SCHOOL	SELWYN PRIMARY SCHOOL	E13 0LX	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540922	183771	UPTON CROSS PRIMARY SCHOOL	UPTON CROSS PRIMARY SCHOOL	E13 0RJ	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540718	183445	LISTER COMMUNITY SECONDARY SCHOOL	LISTER COMMUNITY SECONDARY SCHOOL	E13 9AE	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540023	183691	PORTWAY PRIMARY SCHOOL	PORTWAY PRIMARY SCHOOL	E15 3QP	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540838	183368	PLAISTOW PRIMARY SCHOOL	PLAISTOW PRIMARY SCHOOL	E13 9DQ	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540023	183691	PORTWAY SCHOOL	PORTWAY SCHOOL	E13 0JW	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540776	184298	ELMHURST PRIMARY SCHOOL	ELMHURST PRIMARY SCHOOL	E7 8JY	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540773	184542	ST. ANGELAS RC SECONDARY SCHOOL	ST. ANGELAS RC SECONDARY SCHOOL	E7 8HU	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540527	184370	ST. ANTONYS RC PRIMARY SCHOOL	ST. ANTONYS RC PRIMARY SCHOOL	E7 9PN	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540513	184161	ST. BONAVENTURES RC SECONDARY SCHOOL	ST. BONAVENTURES RC SECONDARY SCHOOL	E7 9QD	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540521	184793	QUWWAT-UL-ISLAM GIRLS SCHOOL	QUWWAT-UL-ISLAM GIRLS SCHOOL	E7 9NB	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540427	184397	STRATFORD SCHOOL	STRATFORD SCHOOL	E7 9PR	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540846	184588	CHASE PARK SCHOOL	CHASE PARK SCHOOL	E7 8JA	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540818	185642	GODWIN JUNIOR SCHOOL	GODWIN JUNIOR SCHOOL	E7 0JW	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540770	185541	WOODGRANGE INFANT SCHOOL	WOODGRANGE INFANT SCHOOL	E7 0NJ	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540592	185236	KAY ROWE NURSERY SCHOOL	KAY ROWE NURSERY SCHOOL	E7 0PH	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540379	185369	FOREST GATE COMMUNITY SCHOOL	FOREST GATE COMMUNITY SCHOOL	E7 0HR	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540061	185325	ODESSA INFANT	ODESSA INFANT	E7 9BY	-	No	Education	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
		SCHOOL	SCHOOL				facilities																				
541805	183725	CLEVES PRIMARY SCHOOL	CLEVES PRIMARY SCHOOL	E6 1QP	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541402	183516	ST. EDWARDS RC PRIMARY SCHOOL	ST. EDWARDS RC PRIMARY SCHOOL	E13 9AX	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541786	184933	MONEGA PRIMARY SCHOOL	MONEGA PRIMARY SCHOOL	E12 6TT	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541460	184084	ST. STEPHENS PRIMARY SCHOOL	ST. STEPHENS PRIMARY SCHOOL	E6 1AS	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541460	184084	ST. STEPHENS NURSERY SCHOOL	ST. STEPHENS NURSERY SCHOOL	E6 1AX	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541666	184618	WILLIAM DAVIES PRIMARY SCHOOL	WILLIAM DAVIES PRIMARY SCHOOL	E7 8NL	-	No	Education facilities	-	-	243.0	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541632	184281	GRANGEWOOD INDEPENDENT SCHOOL	GRANGEWOOD INDEPENDENT SCHOOL	E7 8QT	-	No	Education facilities	-	-	148.0	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541365	184317	SHAFTESBURY PRIMARY SCHOOL	SHAFTESBURY PRIMARY SCHOOL	E7 8PF	-	No	Education facilities	-	-	855.0	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541655	184545	JAMIAH MADANIAH PRIMARY SCHOOL	JAMIAH MADANIAH PRIMARY SCHOOL	E7 8NN	-	No	Education facilities	-	-	44.0	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541183	185020	SANDRINGHAM PRIMARY SCHOOL	SANDRINGHAM PRIMARY SCHOOL	E7 8ED	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
542283	183629	HARTLEY PRIMARY SCHOOL	HARTLEY PRIMARY SCHOOL	E6 1NT	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
542856	183973	ALTMORE INFANT SCHOOL	ALTMORE INFANT SCHOOL	E6 2BX	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
542705	184585	KENSINGTON PRIMARY SCHOOL	KENSINGTON PRIMARY SCHOOL	E12 6NN	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
542505	184073	LATHOM JUNIOR SCHOOL	LATHOM JUNIOR SCHOOL	E6 2DU	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
542023	185410	SALISBURY PRIMARY SCHOOL	SALISBURY PRIMARY SCHOOL	E12 5AF	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
542881	185860	SHERINGHAM JUNIOR SCHOOL	SHERINGHAM JUNIOR SCHOOL	E12 5PB	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
542932	185904	SHERINGHAM NURSERY SCHOOL	SHERINGHAM NURSERY SCHOOL	E12 5PB	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
542245	185458	AVENUE PRIMARY SCHOOL	AVENUE PRIMARY SCHOOL	E12 6AR	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
542530	185044	ESSEX PRIMARY SCHOOL	ESSEX PRIMARY SCHOOL	E12 6QX	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
542878	185343	ST. WINEFRIDES RC PRIMARY SCHOOL	ST. WINEFRIDES RC PRIMARY SCHOOL	E12 6HB	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
542588	185613	HERON SCHOOL	HERON SCHOOL	E12 5PY	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
543064	185482	DERSINGHAM INFANT SCHOOL	DERSINGHAM INFANT SCHOOL	E12 5QP	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539710	181198	O'FARRELL STAGE SCHOOL	O'FARRELL STAGE SCHOOL	E16 1HU	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539981	182534	GRANGE INFANT SCHOOL	GRANGE INFANT SCHOOL	E13 0HE	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539271	182593	GAINSBOROUGH PRIMARY SCHOOL	GAINSBOROUGH PRIMARY SCHOOL	E15 3AF	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539316	182153	STAR PRIMARY SCHOOL	STAR PRIMARY SCHOOL	E16 4NH	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539444	182328	EASTLEA COMMUNITY SCHOOL	EASTLEA COMMUNITY SCHOOL	E16 4ND	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539467	183286	RANELAGH PRIMARY SCHOOL	RANELAGH PRIMARY SCHOOL	E15 3DN	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540674	180244	BRITANNIA VILLAGE PRIMARY SCHOOL	BRITANNIA VILLAGE PRIMARY SCHOOL	E16 2AW	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540630	180827	THE TRAINING SCHOOL	THE TRAINING SCHOOL	E16 1DR	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540086	181251	HALLSVILLE PRIMARY SCHOOL	HALLSVILLE PRIMARY SCHOOL	E16 1LN	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540189	181656	KEIR HARDY PRIMARY SCHOOL	KEIR HARDY PRIMARY SCHOOL	E16 1PZ	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540767	181590	ROSETTA PRIMARY SCHOOL	ROSETTA PRIMARY SCHOOL	E16 3PB	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540813	181540	EDITH KERRISON NURSERY SCHOOL	EDITH KERRISON NURSERY SCHOOL	E16 3PB	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540040	182405	ST. HELENS RC PRIMARY SCHOOL	ST. HELENS RC PRIMARY SCHOOL	E13 8DD	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540725	182208	KAIZEN PRIMARY SCHOOL	KAIZEN PRIMARY SCHOOL	E13 8LF	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540218	183137	CURWEN PRIMARY SCHOOL	CURWEN PRIMARY SCHOOL	E13 0AG	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540863	183247	SOUTHERN ROAD PRIMARY SCHOOL	SOUTHERN ROAD PRIMARY SCHOOL	E13 9JH	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540948	183281	SOUTHERN ROAD	SOUTHERN ROAD	E13 9JD	-	No	Education	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
		INFANT SCHOOL	INFANT SCHOOL				facilities																				
540544	183221	ELEANOR SMITH SCHOOL	ELEANOR SMITH SCHOOL	E13 9HN	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541780	181109	CALVERTON PRIMARY SCHOOL	CALVERTON PRIMARY SCHOOL	E16 3ET	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541497	181524	ELENOR SMITH SCHOOL	ELENOR SMITH SCHOOL	E16 3LU	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541491	181453	SCOTT WILKIE PRIMARY SCHOOL	SCOTT WILKIE PRIMARY SCHOOL	E16 3HD	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541306	181070	THE ROYAL DOCKS COMMUNITY SCHOOL	THE ROYAL DOCKS COMMUNITY SCHOOL	E16 3HS	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541026	181114	ST. JOACHIMS RC SCHOOL	ST. JOACHIMS RC SCHOOL	E16 3DT	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541419	181410	SCOTT WILKIE SCHOOL	SCOTT WILKIE SCHOOL	E16 3RU	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541501	182628	NEW CITY PRIMARY SCHOOL	NEW CITY PRIMARY SCHOOL	E13 9PY	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541221	182249	CUMBERLAND SCHOOL SPECIALIST SPORTS COLLEGE	CUMBERLAND SCHOOL SPECIALIST SPORTS COLLEGE	E13 8SJ	-	No	Education facilities	-	-	3127.0	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541903	183146	CENTRAL PARK PRIMARY SCHOOL	CENTRAL PARK PRIMARY SCHOOL	E6 3DW	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
542185	180187	DREW PRIMARY SCHOOL	DREW PRIMARY SCHOOL	E16 2DP	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
542018	181658	ELLEN WILKINSON PRIMARY SCHOOL	ELLEN WILKINSON PRIMARY SCHOOL	E6 5UP	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
542828	181864	NORTH BECKTON PRIMARY SCHOOL	NORTH BECKTON PRIMARY SCHOOL	E6 5XG	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
542700	181463	KINGSFORD COMMUNITY SCHOOL	KINGSFORD COMMUNITY SCHOOL	E6 5JG	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
542018	181658	ELLEN WILKINGSON SCHOOL	ELLEN WILKINGSON SCHOOL	E6 5SZ	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
542007	182609	BRAMPTON PRIMARY SCHOOL	BRAMPTON PRIMARY SCHOOL	E6 3LB	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
543682	181384	GALLIONS PRIMARY SCHOOL	GALLIONS PRIMARY SCHOOL	E6 6WG	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
543168	181099	WINSOR PRIMARY SCHOOL	WINSOR PRIMARY SCHOOL	E6 5NA	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
543238	182192	NEWHAM RIDING SCHOOL & ASSOCIATION	NEWHAM RIDING SCHOOL & ASSOCIATION	E6 6JF	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
543287	183080	OLIVER THOMAS SCHOOL	OLIVER THOMAS SCHOOL	E6 6BU	-	No	Education facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540272	184097	West Ham Park Nursery	-	E7 9PU	Other public	No	Education facilities	Gas	Natural gas	730.0	-	-	-	-	-	-	-	-	-	-	-	Borough Heat Loads	No	-	Newham	-	-
539572	184673	STRATFORD FIRE STATION	117 ROMFORD ROAD	E15 4JE	Other public	No	Fire stations	Individual boilers	Natural gas	689.9	-	2465	-	0.59	-	-	-	1964	2009	-	-	Meters	No	-	Newham	-	-
540821	180122	SILVERTOWN FIRE STATION	303 NORTH WOOLWICH ROAD	E16 2AA	Other public	No	Fire stations	Individual boilers	Natural gas	213.6	-	669	-	0.18	-	-	-	1968	2009	-	-	Meters	No	-	Newham	-	-
541080	182191	PLAISTOW FIRE STATION	145 PRINCE REGENT LANE	E13 8RY	Other public	No	Fire stations	Individual boilers	Natural gas	464.5	-	1559	-	0.4	-	-	-	1931	2009	-	-	Meters	No	-	Newham	-	-
542802	182508	EAST HAM FIRE STATION	210 HIGH STREET SOUTH	E6 2JA	Other public	No	Fire stations	Assets including CHP	Natural gas	391.5	56	2185	-	0.34	0.011	0.03	-	1960	2009	-	-	Meters	No	-	Newham	-	-
539089	184516	IBIS HOTEL	ROMFORD ROAD, LONDON	E15 4LJ	Private	No	Hotels (> 99 units or 4,999 m2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539989	184852	COUNTRYSIDE HOTEL	ROMFORD ROAD, LONDON	E7 9HL	Private	No	Hotels (> 99 units or 4,999 m2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540759	180940	CUSTOM HOUSE HOTEL	VICTORIA DOCK ROAD, LONDON	E16 3BY	Private	No	Hotels (> 99 units or 4,999 m2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540299	180751	CROWN PLAZA HOTEL	WESTERN GATEWAY, LONDON	E16 1AL	Private	No	Hotels (> 99 units or 4,999 m2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540113	184909	FOREST VIEW HOTEL	ROMFORD ROAD, LONDON	E7 9HL	Private	No	Hotels (> 99 units or 4,999 m2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540196	184939	MANOR HOUSE HOTEL	ROMFORD ROAD, LONDON	E7 9HL	Private	No	Hotels (> 99 units or 4,999 m2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540860	185081	MCCREADIE HOTEL	ROMFORD ROAD, LONDON	E7 8AA	Private	No	Hotels (> 99 units or 4,999 m2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540780	185018	ST. ANDREWS HOTEL	ROMFORD ROAD, LONDON	E7 8BS	Private	No	Hotels (> 99 units or 4,999 m2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541126	180663	SUNBORN YACHT HOTEL	ROYAL VICTORIA DOCK, LONDON	E16 1SL	Private	No	Hotels (> 99 units or 4,999 m2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
541774	180120	E T A P HOTEL	NORTH WOOLWICH ROAD, LONDON	E16 2EE	Private	No	Hotels (> 99 units or 4,999 m2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541103	185826	FOREST GATE HOTEL	GODWIN ROAD, LONDON	E7 0LW	Private	No	Hotels (> 99 units or 4,999 m2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
543972	180689	GALLIONS HOTEL	GALLIONS ROAD, LONDON	E16 2QS	Private	No	Hotels (> 99 units or 4,999 m2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
543726	180049	ROUNDHOUSE HOTEL	WOOLWICH MANOR WAY, LONDON	E16 2NJ	Private	No	Hotels (> 99 units or 4,999 m2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
543095	184540	RODING HOTEL	SOUTHEND ROAD, LONDON	E6 2AN	Private	No	Hotels (> 99 units or 4,999 m2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538775	183956	STRATFORD WORKSHOPS	BURFORD ROAD LONDON	E15 2SP	Private	No	Multi-address buildings	-	-	-	-	-	58	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539995	180487	WATERFRONT STUDIOS BUSINESS CENTRE	1 DOCK ROAD LONDON	E16 1AG	Private	No	Multi-address buildings	-	-	-	-	-	76	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538916	184745	ESTELLA APARTMENTS	1 20 GROVE CRESCENT ROAD LONDON	E15 1AQ	Private	No	Multi-address buildings	-	-	-	-	-	96	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539546	184482	AMMONITE HOUSE	FLAT 1 12 FLINT CLOSE LONDON	E15 4QR	Private	No	Multi-address buildings	-	-	-	-	-	60	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
543278	185891	JOHN CORNWELL V C HOUSE	FLAT 1 GRANTHAM ROAD LONDON	E12 5LY	Private	No	Multi-address buildings	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540074	183247	SETTLE POINT	FLAT 1 LONDON ROAD LONDON	E13 0DX	Private	No	Multi-address buildings	-	-	-	-	-	60	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538228	183917	ICONA POINT	FLAT 1 58 WARTON ROAD LONDON	E15 2JD	Private	No	Multi-address buildings	-	-	-	-	-	127	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539105	185212	HENNIKER POINT	FLAT 1 LEYTONSTONE ROAD LONDON	E15 1LG	Private	No	Multi-address buildings	-	-	-	-	-	91	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539255	183625	BRASSETT POINT	FLAT 1 ABBEY ROAD LONDON	E15 3LA	Private	No	Multi-address buildings	-	-	-	-	-	123	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538332	183502	ALBERT BIGG POINT	FLAT 1 GODFREY STREET LONDON	E15 2SE	Private	No	Multi-address	-	-	-	-	-	95	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
							buildings																				
542988	184788	-	218 HATHAWAY CRESCENT LONDON	E12 6LY	Private	No	Multi-address buildings	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540180	183673	SMITHS POINT	FLAT 1 BROOKS ROAD LONDON	E13 0NQ	Private	No	Multi-address buildings	-	-	-	-	-	55	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538808	184530	-	1 GERRY RAFFLES SQUARE LONDON	E15 1BG	Private	No	Multi-address buildings	-	-	-	-	-	141	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541456	184350	BRIDGEPOINT LOFTS	FLAT 11 6 SHAFTESBURY ROAD LONDON	E7 8PL	Private	No	Multi-address buildings	-	-	325.0	-	-	80	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541957	185208	-	45 QUEENSBERRY PLACE LONDON	E12 6UN	Private	No	Multi-address buildings	-	-	-	-	-	50	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538829	184689	-	FLAT 11 1 ANGEL LANE LONDON	E15 1BL	Private	No	Multi-address buildings	-	-	-	-	-	54	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538490	184185	DENNISON POINT	FLAT 1 GIBBINS ROAD LONDON	E15 2LY	Private	No	Multi-address buildings	-	-	-	-	-	134	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539105	184274	BRIMSTONE HOUSE	FLAT 1 10 VICTORIA STREET LONDON	E15 4NX	Private	No	Multi-address buildings	-	-	-	-	-	210	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540296	183712	TANNER POINT	FLAT 1 PELLY ROAD LONDON	E13 0NW	Private	No	Multi-address buildings	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538891	184945	HOLDEN POINT	FLAT 1 WADDINGTON ROAD LONDON	E15 1QN	Private	No	Multi-address buildings	-	-	-	-	-	80	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541517	183570	PRIORY COURT	FLAT 1 PRIORY ROAD LONDON	E6 1PT	Private	No	Multi-address buildings	-	-	-	-	-	96	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539315	183636	DAVID LEE POINT	FLAT 10 LEATHER GARDENS LONDON	E15 3LE	Private	No	Multi-address buildings	-	-	-	-	-	123	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539456	184556	THE QUADRANGLE HOUSE	FLAT 1 84 ROMFORD ROAD LONDON	E15 4EJ	Private	No	Multi-address buildings	-	-	-	-	-	95	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539643	184719	COLLEGE POINT	FLAT 1 WOLFFE GARDENS LONDON	E15 4JL	Private	No	Multi-address buildings	-	-	-	-	-	123	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
539175	184881	GAZELLE HOUSE	FLAT 22 8 MANBEY PARK ROAD LONDON	E15 1EQ	Private	No	Multi-address buildings	-	-	-	-	-	54	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538692	183873	BURFORD WHARF APARTMENTS	APARTMENT 21 3 CAM ROAD LONDON	E15 2SL	Private	No	Multi-address buildings	-	-	-	-	-	87	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540567	185074	DONALD HUNTER HOUSE	FLAT 1 1 POST OFFICE APPROACH LONDON	E7 0QQ	Private	No	Multi-address buildings	-	-	-	-	-	62	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540539	185568	-	1 EMILY DUNCAN PLACE LONDON	E7 0BB	Private	No	Multi-address buildings	-	-	-	-	-	73	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538712	183794	HALLINGS WHARF STUDIOS	1 1 CHANNELSEA ROAD LONDON	E15 2SX	Private	No	Multi-address buildings	-	-	-	-	-	86	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538842	184785	BELLHAVEN	FLAT 1 2 MILLSTONE CLOSE LONDON	E15 1PE	Private	No	Multi-address buildings	-	-	-	-	-	114	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541596	183817	CEARNS HOUSE	FLAT 1 69 WILLIAM MORLEY CLOSE LONDON	E6 1QX	Private	No	Multi-address buildings	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540466	183398	SCOTT HOUSE	FLAT 1 QUEENS ROAD WEST LONDON	E13 0RU	Private	No	Multi-address buildings	-	-	-	-	-	116	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541658	183522	-	68 SEYMOUR ROAD LONDON	E6 1PX	Private	No	Multi-address buildings	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538370	183414	AUBREY MOORE POINT	FLAT 1 ABBEY LANE LONDON	E15 2RZ	Private	No	Multi-address buildings	-	-	-	-	-	98	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541260	183667	-	416 GREEN STREET LONDON	E13 9JJ	Private	No	Multi-address buildings	-	-	-	-	-	122	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538033	183305	CENTRAL HOUSE 32-66	FLAT 10 HIGH STREET LONDON	E15 2NS	Private	No	Multi-address buildings	-	-	-	-	-	193	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540511	183155	SHAFTESBURY POINT	FLAT 1 HIGH STREET LONDON	E13 0AB	Private	No	Multi-address buildings	-	-	-	-	-	58	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
543309	185668	ALFRED PRIOR HOUSE	FLAT 1 GRANTHAM ROAD LONDON	E12 5NA	Private	No	Multi-address buildings	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538332	183948	LUND POINT	FLAT 1 CARPENTERS ROAD LONDON	E15 2JN	Private	No	Multi-address	-	-	-	-	-	168	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
							buildings																				
539263	184979	IBEX HOUSE	FLAT 44 1 FOREST LANE LONDON	E15 1HR	Private	No	Multi-address buildings	-	-	-	-	-	108	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538168	183416	THE LOCK BUILDING	FLAT 1 72 HIGH STREET LONDON	E15 2QB	Private	No	Multi-address buildings	-	-	-	-	-	132	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541233	182942	JACOBS HOUSE	FLAT 1 NEW CITY ROAD LONDON	E13 9LW	Private	No	Multi-address buildings	-	-	-	-	-	64	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540236	183740	NICHOLLS POINT	FLAT 1 PARK GROVE LONDON	E15 3QU	Private	No	Multi-address buildings	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538520	183774	PETER HEATHFIELD HOUSE	FLAT 5 261 HIGH STREET LONDON	E15 2LR	Private	No	Multi-address buildings	-	-	-	-	-	76	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541454	183820	AUSTIN COURT	FLAT 1 FLORENCE ROAD LONDON	E6 1DU	Private	No	Multi-address buildings	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541822	185330	THE LUMIERE BUILDING	FLAT 24 544 ROMFORD ROAD LONDON	E7 8AY	Private	No	Multi-address buildings	-	-	-	-	-	71	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540233	183242	VICTORIA POINT	FLAT 1 VICTORIA ROAD LONDON	E13 0AH	Private	No	Multi-address buildings	-	-	-	-	-	60	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540241	180768	THE OXYGEN	FLAT 118 18 WESTERN GATEWAY LONDON	E16 1BQ	Private	No	Multi-address buildings	-	-	-	-	-	241	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540139	180436	WESTERN BEACH APARTMENTS	FLAT 27 36 HANOVER AVENUE LONDON	E16 1DX	Private	No	Multi-address buildings	-	-	-	-	-	120	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540392	180748	WESTGATE APARTMENTS	APARTMENT 155 14 WESTERN GATEWAY LONDON	E16 1BN	Private	No	Multi-address buildings	-	-	-	-	-	225	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540192	180775	ADRIATIC APARTMENTS	FLAT 27 20 WESTERN GATEWAY LONDON	E16 1BS	Private	No	Multi-address buildings	-	-	-	-	-	131	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
543149	180040	WESTLAND HOUSE	FLAT 1 RYMILL STREET LONDON	E16 2LE	Private	No	Multi-address buildings	-	-	-	-	-	74	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
544060	180654	LATITUDE COURT	FLAT 210 3 ALBERT BASIN WAY LONDON	E16 2QP	Private	No	Multi-address buildings	-	-	-	-	-	61	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
539566	181704	MCCABE COURT	FLAT 1 99 BARKING ROAD LONDON	E16 4HE	Private	No	Multi-address buildings	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
543851	179933	-	29 LOWESTOFT MEWS LONDON	E16 2ST	Private	No	Multi-address buildings	-	-	-	-	-	99	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540072	181626	FERRIER POINT	FLAT 1 FORTY ACRE LANE LONDON	E16 1QN	Private	No	Multi-address buildings	-	-	-	-	-	115	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540344	180678	CORAL APARTMENTS	FLAT 1 17 WESTERN GATEWAY LONDON	E16 1AQ	Private	No	Multi-address buildings	-	-	-	-	-	67	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539633	181228	THE SPHERE	FLAT 170 1 HALLSVILLE ROAD LONDON	E16 1BF	Private	No	Multi-address buildings	-	-	-	-	-	183	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540817	180436	EASTERN QUAY APARTMENTS	FLAT 28 25 RAYLEIGH ROAD LONDON	E16 1AX	Private	No	Multi-address buildings	-	-	-	-	-	73	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
543803	179913	-	419 FISHGUARD WAY LONDON	E16 2RZ	Private	No	Multi-address buildings	-	-	-	-	-	50	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541069	182865	SPECTACLE WORKS 1A	FLAT 66 JEDBURGH ROAD LONDON	E13 9LX	Private	No	Multi-address buildings	-	-	-	-	-	80	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539645	182278	ROWLAND COURT	FLAT 1 BEACONSFIELD ROAD LONDON	E16 4HY	Private	No	Multi-address buildings	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540517	182071	-	1 NEW BARN STREET STUBBS POINT LONDON	E13 8JL	Private	No	Multi-address buildings	-	-	-	-	-	108	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
539666	181672	-	55 BARKING ROAD THOMAS NORTH TERRACE LONDON	E16 1EJ	Private	No	Multi-address buildings	-	-	-	-	-	81	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
543970	180133	-	7 FISHGUARD WAY LONDON	E16 2RG	Private	No	Multi-address buildings	-	-	-	-	-	50	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541142	179796	-	187 BARRIER POINT ROAD LONDON	E16 2SF	Private	No	Multi-address buildings	-	-	-	-	-	71	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
544035	180714	NAVIGATION COURT	FLAT 601 1 GALLIONS ROAD LONDON	E16 2QL	Private	No	Multi-address buildings	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540607	182663	-	1 DONGOLA ROAD WEST BEMERSYDE	E13 0AW	Private	No	Multi-address	-	-	-	-	-	50	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
			POINT LONDON				buildings																				
540541	180823	THE GRAINSTORE	FLAT 1 4 WESTERN GATEWAY LONDON	E16 1BA	Private	No	Multi-address buildings	-	-	-	-	-	79	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
542929	180024	DUNEDIN HOUSE	FLAT 1 MANWOOD STREET LONDON	E16 2LA	Private	No	Multi-address buildings	-	-	-	-	-	73	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540131	180765	ALASKA APARTMENTS	FLAT 1 22 WESTERN GATEWAY LONDON	E16 1BW	Private	No	Multi-address buildings	-	-	-	-	-	70	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
543198	180031	QUEENSLAND HOUSE	FLAT 1 RYMILL STREET LONDON	E16 2LG	Private	No	Multi-address buildings	-	-	-	-	-	74	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541568	179963	-	49 WARDS WHARF APPROACH LONDON	E16 2EX	Private	No	Multi-address buildings	-	-	-	-	-	116	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541552	179977	-	44 WARDS WHARF APPROACH LONDON	E16 2EY	Private	No	Multi-address buildings	-	-	-	-	-	108	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540170	180792	ATLANTIC APARTMENTS	FLAT 72 21 SEAGULL LANE LONDON	E16 1BZ	Private	No	Multi-address buildings	-	-	-	-	-	89	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
544017	180070	-	107 FISHGUARD WAY LONDON	E16 2RU	Private	No	Multi-address buildings	-	-	-	-	-	87	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538821	184147	Discover (Visit Britain Assessed)	1 Bridge Terrace, London	E15 4BG	Private	No	Museums & Art Galleries	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
543315	179803	North Woolwich Old Station Museum	-	E16 2JJ	Private	No	Museums & Art Galleries	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538897	184586	Stratford Circus Ltd	-	E15 1BX	Private	No	Museums & Art Galleries	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540498	182710	FIRST AVENUE DAY HOSPITAL	FIRST AVENUE, LONDON	E13 8AP	Other public	No	NHS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541305	182418	NEWHAM UNIVERSITY HOSPITAL	GLEN ROAD, LONDON	E13 8SL	Other public	No	NHS	-	-	10168.0	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
541078	183187	PLAISTOW HOSPITAL	SAMSON STREET, LONDON	E13 9EH	Other public	No	NHS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
543365	181449	CYGNET HOSPITAL BECKTON	TUNNAN LEYS, LONDON	E6 6ZB	Other public	No	NHS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
538533	184421	STRATFORD RAILWAY STATION, BRITISH	STATION STREET, LONDON	E15 1AZ	Other public	No	Police stations	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
		TRANSPORT POLICE																									
539074	184152	STRATFORD POLICE STATION, METROPOLITAN POLICE	WEST HAM LANE, LONDON	E15 4SG	Other public	No	Police stations	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540587	182407	PLAISTOW POLICE STATION, METROPOLITAN POLICE	BARKING ROAD, LONDON	E13 8HJ	Other public	No	Police stations	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540912	185047	FOREST GATE POLICE STATION 350-360, METROPOLITAN POLICE	ROMFORD ROAD, LONDON	E7 8BS	Other public	No	Police stations	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	Newham	-	-
540213	179905	J Knights (ABP) Limited	J Knights (ABP) Limited, Knights Road, Silvertown, London	E162AT	Private	No	Private commercial (> 9,999 m2)	-	Oil	1888.8	-	-	-	0.562144	-	-	404	-	2008	-	-	Boiler Sites	No	-	Newham	-	-
542303	180036	Tate and Lyle plc	Tate and Lyle Sugars, Thames Refinery, Factory Road, Silvertown, London	E162EW	Private	No	Private commercial (> 9,999 m2)	-	Oil	728779.2	-	-	-	83.19397	-	-	155880	-	2008	-	-	Boiler Sites	No	-	Newham	-	-
540684	180691	London International Exhibition Centre plc	Excel Exhibition Centre,1 Western Gateway, Royal Victoria Dock, London	E161XL	Private	No	Private commercial (> 9,999 m2)	-	Oil	22922.8	-	-	-	6.822258	-	-	4903	-	2008	-	-	Boiler Sites	No	-	Newham	-	-
542861	183955	Altmore School	-	-	-	-	-	-	-	298.6	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539986	182206	Amber Centre, Sutton Rd	-	-	-	-	-	-	-	68.7	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539682	181983	Ascot CC. Hermit Road E16 4PL	-	-	-	-	-	-	-	8.5	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542248	185443	Avenue School	-	-	-	-	-	-	-	278.0	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540657	182543	Barking Road 455	-	-	-	-	-	-	-	128.7	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
543254	181049	Beckton CC. (Cyprus) 14 Manor Way E6 5NG	-	-	-	-	-	-	-	151.7	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542690	181568	Beckton Globe LSC 1 Kingsford Way E6 5JQ	-	-	-	-	-	-	-	225.1	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539883	181795	Beckton Rd Social Services, 5	-	-	-	-	-	-	-	90.5	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
541768	182350	Brampton Manor School	-	-	-	-	-	-	-	1553.8	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542044	182530	Brampton Park & Buildings	-	-	-	-	-	-	-	32.2	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542008	182622	Brampton School	-	-	-	-	-	-	-	446.0	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
538712	184127	Bridge House	-	-	-	-	-	-	-	390.8	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539088	183529	Bridge Rd Depot inc Comp. Suite	-	-	-	-	-	-	-	330.9	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540686	180245	Britannia Village Primary	-	-	-	-	-	-	-	335.1	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
538730	184163	Broadway House	-	-	-	-	-	-	-	20.6	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541775	181099	Calverton School	-	-	-	-	-	-	-	180.4	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539636	181749	Canning Town Library	-	-	-	-	-	-	-	253.5	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
538398	183862	Carpenters School	-	-	-	-	-	-	-	260.4	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
543558	183152	Central Depot Folkestone Road	-	-	-	-	-	-	-	1671.8	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541890	183127	Central Park School	-	-	-	-	-	-	-	521.5	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
538794	185477	Chandos CC. Colegrave Road E15 1DZ	-	-	-	-	-	-	-	129.7	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540166	182335	Chargeable Lane 200 Resource Centre for Older People	-	-	-	-	-	-	-	549.6	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539596	185207	Chatsworth CRC, Chatsworth Road E15 1RE	-	-	-	-	-	-	-	30.8	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542958	185334	Church Road E12 (134)	-	-	-	-	-	-	-	22.2	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541799	183716	Cleves School	-	-	-	-	-	-	-	558.6	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
538874	185174	Colegrave School	-	-	-	-	-	-	-	292.4	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541151	183473	Credon Centre	-	-	-	-	-	-	-	368.7	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
540582	181875	Cumberland Road 192, Youth Offending Team	-	-	-	-	-	-	-	69.8	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540764	181272	Cundy CC. Hartington Road E16 3NP	-	-	-	-	-	-	-	10.6	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540203	183141	Curwen School	-	-	-	-	-	-	-	391.3	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541049	181548	Custom House Library	-	-	-	-	-	-	-	78.3	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
543055	185469	Dersingham School	-	-	-	-	-	-	-	185.7	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540548	182701	Dongola Rd, 99/101 Stay & Play	-	-	-	-	-	-	-	153.3	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542289	180277	Drew School	-	-	-	-	-	-	-	288.9	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539989	185054	Earlham School	-	-	-	-	-	-	-	300.8	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
538385	183484	Early Start Stratford, Abbey Lane E15	-	-	-	-	-	-	-	133.9	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
543068	185704	Early Start Susan Lawrence, Lawrence Avenue E12	-	-	-	-	-	-	-	57.9	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542958	183590	Early Start Vicarage, (Canberra Centre) Canberra Rd E6	-	-	-	-	-	-	-	89.6	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542666	183495	East Ham Library	-	-	-	-	-	-	-	219.4	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542863	183611	East Ham Town Hall Annexe, 330 Barking Road	-	-	-	-	-	-	-	603.5	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542649	183547	East Ham Town Hall, Barking Road	-	-	-	-	-	-	-	734.5	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539474	182370	Eastlea School	-	-	-	-	-	-	-	1985.1	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540544	183216	Eleanor Smith Special	-	-	-	-	-	-	-	105.6	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542016	181663	Ellen Wilkinson School	-	-	-	-	-	-	-	1038.1	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540782	184296	Elmhurst School, Nursery & Kitchen	-	-	-	-	-	-	-	422.1	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542544	185028	Essex School	-	-	-	-	-	-	-	492.9	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
542896	180033	Fernhill Street. 242	-	-	-	-	-	-	-	248.9	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540164	185796	Field CC. 147 Station Road E7 0AE	-	-	-	-	-	-	-	99.6	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540482	185657	Forest Gate Leaning Zone	-	-	-	-	-	-	-	341.5	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540558	185070	Forest Gate LSC 4 Woodgrange Road E7 1QH	-	-	-	-	-	-	-	64.2	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540388	185385	Forest Gate School	-	-	-	-	-	-	-	753.8	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539271	182590	Gainsborough School	-	-	-	-	-	-	-	568.1	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
543689	181392	Gallions Primary School	-	-	-	-	-	-	-	377.2	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540816	185642	Godwin School	-	-	-	-	-	-	-	123.8	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539982	182524	Grange School	-	-	-	-	-	-	-	218.0	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541317	183684	Green St LSC 403 Green Street E13 9AU	-	-	-	-	-	-	-	24.4	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542158	185299	Greenhill Centre	-	-	-	-	-	-	-	508.0	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540144	181221	Hallsville School	-	-	-	-	-	-	-	666.4	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542271	183640	Hartley School	-	-	-	-	-	-	-	498.9	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
543114	184864	Hathaway CC Hathaway Crescent E12 6LR	-	-	-	-	-	-	-	38.9	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542672	183457	High St. South 1, Old Fire Station	-	-	-	-	-	-	-	255.9	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
538626	183916	High St. Stratford 327, Criminal Justice Intervention	-	-	-	-	-	-	-	37.2	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541398	181463	Hoskins Close CC. 108 Hoskins Close E16 3RU	-	-	-	-	-	-	-	7.4	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
538964	183987	J.F.Kennedy School	-	-	-	-	-	-	-	451.3	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
543064	185746	Jack Cornwell CC. Jack Cornwell Street	-	-	-	-	-	-	-	58.0	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
		E12 6LR																									
540361	183244	Jeyes CC James Close E13 9BB	-	-	-	-	-	-	-	13.1	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541631	181769	JFK Annexe	-	-	-	-	-	-	-	1.2	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540188	181658	Kier Hardie School	-	-	-	-	-	-	-	455.4	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542701	184597	Kensington School	-	-	-	-	-	-	-	450.1	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542729	181498	Kingsford	-	-	-	-	-	-	-	1047.0	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
543608	183466	Langdon School	-	-	-	-	-	-	-	4776.4	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542493	184083	Lathom School	-	-	-	-	-	-	-	414.2	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540713	183448	Lister School	-	-	-	-	-	-	-	635.6	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542791	185165	Little Ilford School	-	-	-	-	-	-	-	1428.2	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542480	185815	Manor Park Library	-	-	-	-	-	-	-	115.5	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539224	183318	Manor School	-	-	-	-	-	-	-	307.1	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539317	185362	Maryland School	-	-	-	-	-	-	-	365.4	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541785	184933	Monega School	-	-	-	-	-	-	-	422.9	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
543107	183469	Nelson School	-	-	-	-	-	-	-	656.4	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542699	183433	Nelson St..2-4	-	-	-	-	-	-	-	6.2	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541481	182617	New City School	-	-	-	-	-	-	-	309.4	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
543485	180100	New Directions Centre (Old Story School Site)	-	-	-	-	-	-	-	188.1	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541044	182675	New Tunmarsh Centre	-	-	-	-	-	-	-	380.9	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542820	181861	North Beckton School	-	-	-	-	-	-	-	465.1	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
543264	180031	North Woolwich Library	-	-	-	-	-	-	-	1.0	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
542721	183560	Old Technical College. East Ham Site	-	-	-	-	-	-	-	98.5	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
538929	184299	Old Town Hall West Ham	-	-	-	-	-	-	-	632.5	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
543284	183070	Oliver Thomas Nursery	-	-	-	-	-	-	-	53.2	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539833	184464	Park School	-	-	-	-	-	-	-	460.3	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540858	183377	Plaistow School	-	-	-	-	-	-	-	407.0	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541944	184281	Plashet Registry Office	-	-	-	-	-	-	-	94.9	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542249	184306	Plashet School	-	-	-	-	-	-	-	1051.9	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540026	183663	Portway School	-	-	-	-	-	-	-	810.3	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541751	183640	Priory Park Centre 106 Parr Road	-	-	-	-	-	-	-	28.0	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539463	183270	Ranelagh School	-	-	-	-	-	-	-	296.4	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540426	182088	Ravenscroft School	-	-	-	-	-	-	-	222.9	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539662	182054	Rawalpindi House, 81 Hermit Road E16	-	-	-	-	-	-	-	548.3	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539452	183739	Rebecca Cheetham Nursery	-	-	-	-	-	-	-	153.0	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
538890	184055	Rokeby Building Pitchford St	-	-	-	-	-	-	-	801.1	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541934	182303	Roman Road School	-	-	-	-	-	-	-	141.5	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540948	185099	Romford Rd 369 Social Services Day Centre	-	-	-	-	-	-	-	70.2	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542449	185711	Romford Rd 728 Social Services Patch Office	-	-	-	-	-	-	-	233.9	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
538709	185222	Ronald Openshaw Nursery	-	-	-	-	-	-	-	89.6	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540798	181615	Rosetta School	-	-	-	-	-	-	-	627.5	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541312	181083	Royal Docks School	-	-	-	-	-	-	-	1543.8	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
542024	185411	Salisbury School	-	-	-	-	-	-	-	432.1	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541176	185019	Sandringham School	-	-	-	-	-	-	-	337.1	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539343	184658	Sarah Bonnell School	-	-	-	-	-	-	-	985.4	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541491	181450	Scott Wilkie School	-	-	-	-	-	-	-	61.3	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540474	183876	Selwyn School	-	-	-	-	-	-	-	325.2	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541359	184309	Shaftesbury School	-	-	-	-	-	-	-	496.2	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542935	185901	Sheringham Nursery	-	-	-	-	-	-	-	93.9	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542880	185864	Sheringham Primary School	-	-	-	-	-	-	-	247.5	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542597	185614	Sir John Heron School	-	-	-	-	-	-	-	259.5	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540863	183251	Southern Road School	-	-	-	-	-	-	-	463.2	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540747	184558	St Angela's School	-	-	-	-	-	-	-	1934.8	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540536	184371	St Anthony's School	-	-	-	-	-	-	-	235.4	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540479	184170	St Bonaventure's School	-	-	-	-	-	-	-	1068.6	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541423	183512	St Edward's School	-	-	-	-	-	-	-	276.8	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539230	185141	St Francis School	-	-	-	-	-	-	-	303.8	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540034	182404	St Helen's School	-	-	-	-	-	-	-	258.9	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539835	181296	St Luke's School	-	-	-	-	-	-	-	230.7	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542808	183263	St Michael's School	-	-	-	-	-	-	-	226.1	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541445	184141	St Stephen's Children's Centre	-	-	-	-	-	-	-	89.2	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541495	184097	St Stephen's School	-	-	-	-	-	-	-	417.1	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-

OXS	OYS	Name	Address	Postcode	Ownership	New Development	Typology	Heating supply	Fuel source	Fuel consumption: all assets exc. CHP (MWh/yr)	Fuel consumption: CHP (MWh/yr)	Gross internal floor area (m2)	Number of dwellings	Installed thermal capacity: all assets exc. CHP (MWth)	CHP installed electrical capacity (MWe)	CHP installed thermal capacity (MWth)	CO2 emissions (tCO2/yr)	Year of Construction	Year of data collection	Start date	Completion date	Data Source	Confidentiality of data	Attach file	Borough	Real or estimated data?	Notes
542877	185340	St Winefride's School	-	-	-	-	-	-	-	189.7	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539320	182146	Star School	-	-	-	-	-	-	-	429.0	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539007	184573	Stratford LSC 112 The Grove E15 1NS	-	-	-	-	-	-	-	167.5	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
538788	183936	Stratford Workshops	-	-	-	-	-	-	-	9333.5	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
541265	182034	Tollgate School	-	-	-	-	-	-	-	617.7	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539933	181639	Trinity CC. Bothwell Close E16 1QS	-	-	-	-	-	-	-	45.4	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540933	183761	Upton Cross	-	-	-	-	-	-	-	146.0	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540825	181216	Vandome Close (142) House	-	-	-	-	-	-	-	12.3	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
542881	182856	Vicarage School	-	-	-	-	-	-	-	344.8	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
543128	185991	Walton Rd (34) Education Centre for Truants	-	-	-	-	-	-	-	47.4	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539833	185583	West Ham Cem. Lodge & Mess Sebert Road E7	-	-	-	-	-	-	-	29.2	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
539550	183917	West Ham Church School	-	-	-	-	-	-	-	155.2	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
543168	181045	Winsor School	-	-	-	-	-	-	-	481.9	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
540767	185542	Woodgrange School	-	-	-	-	-	-	-	144.2	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-
543605	180089	Woodman Street CC. Woodman Street E16 2NF	-	-	-	-	-	-	-	4.5	-	-	-	-	-	-	-	-	-	-	-	Provided by Newnham	No	-	Newham	-	-

A2 London Heat Map Load Typologies

The London Heat Map categorises heat loads in accordance with the previous DEMaP database provided by the LDA.

The London Heat Map's categories are listed below:

- [Residential] Multi-Address buildings (>49 per building)
- Sport & Leisure Facilities
- Prisons
- Hotels (>99 units or 4,999m²)
- Educational Facilities
- Police Stations
- Fire Stations
- NHS
- Museums and art galleries
- Central government estate
- Local government estate
- Religious Buildings
- Private residential units (>149 units or 9,999m²)
- Private commercial units (>9,999m²)
- Social Housing Estate
- Other Public Buildings

Buildings with small loads have not been included in this categorisation. This is because their thermal demand is considered big enough to influence the potential of identifying a district heat network opportunity.