



Contact: Jacqui Hurst
Cabinet Secretary
Direct : 020 8379 4096
or Ext:4096
Fax: 020 8379 3177 (DST Office only)
Textphone: 020 8379 4419 (in Civic Centre)
e-mail: jacqui.hurst@enfield.gov.uk

THE CABINET

**Wednesday, 23rd July, 2014 at 8.15 pm in the Conference Room,
Civic Centre, Silver Street, Enfield, EN1 3XA**

AGENDA – PART 1

REFERENCE DOCUMENTS

APPENDICES TO THE FOLLOWING REPORT

- 16. LEE VALLEY HEAT NETWORK - BUSINESS PLAN (Report No.25)**
(Pages 1 - 16)

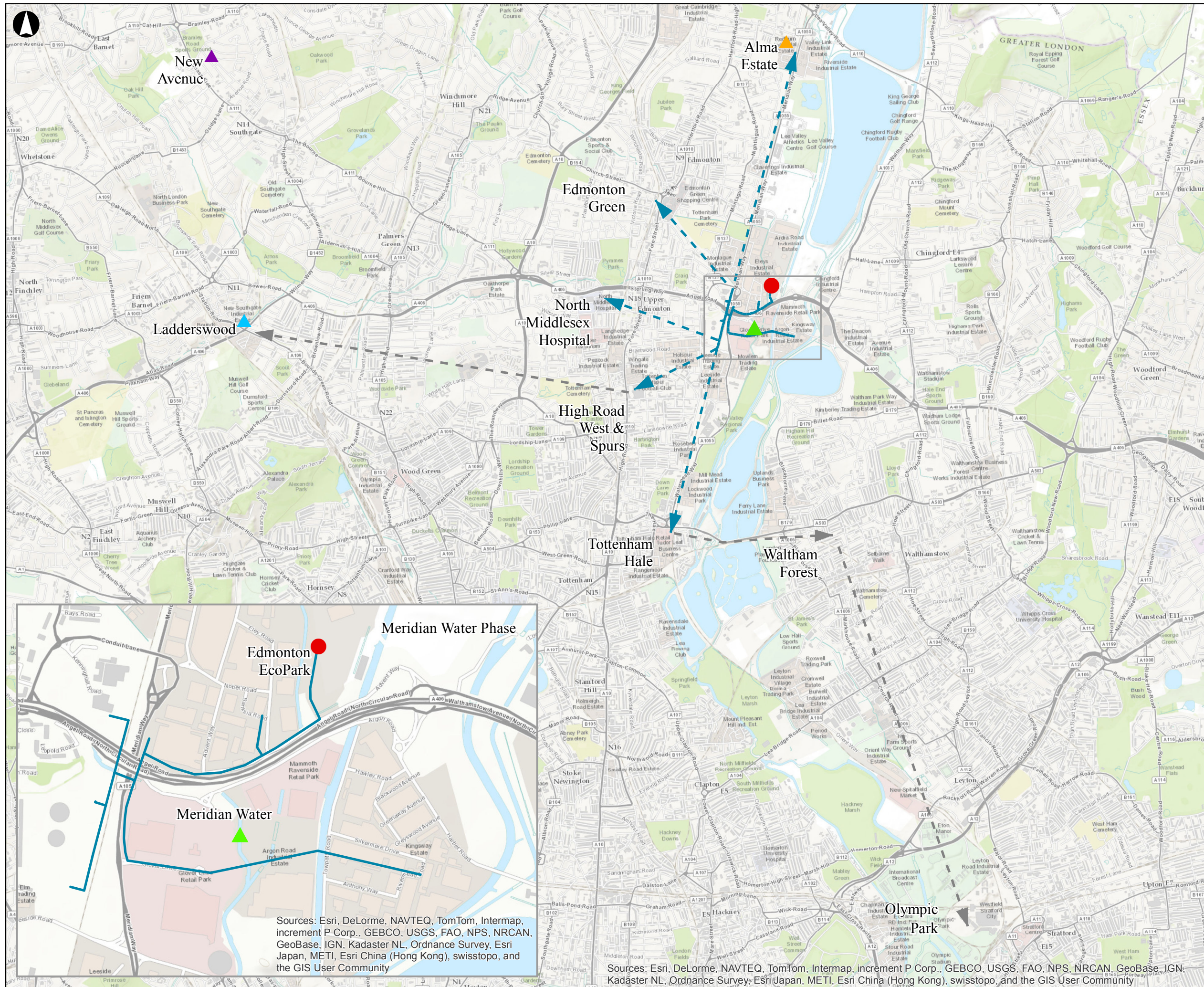
Please find attached the appendices referred to in the Part One report on the Cabinet agenda.

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Appendix 1

LVHN Vision Map

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Legend

- Phase 1
- Potential Phase 2
- Potential Future

Anchor Loads and demand clusters

- Meridian Water Phase

Satellite Schemes

- Alma Estate
- Ladderswood
- New Avenue

Heat Source

- Edmonton EcoPark

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P1	07-04-2014	EBE	KC	JC
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Revision	Date	By	Chkd	Appd

0 600 1200 2400 Metres

ARUP

13 Fitzroy Street
 London W1T 4BO
 Tel +44 20 7636 1531 Fax +44 20 7580 3924
 www.arup.com

Client
London Borough of Enfield

Job Title
LVHN Enfield Phase

Drawing Title
North London Decentralised Energy Vision Map

Scale at A3
1:44,600

Job No 232401	Drawing Status Issue 1.0
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Drawing No
Figure 7

Revision 1.0

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

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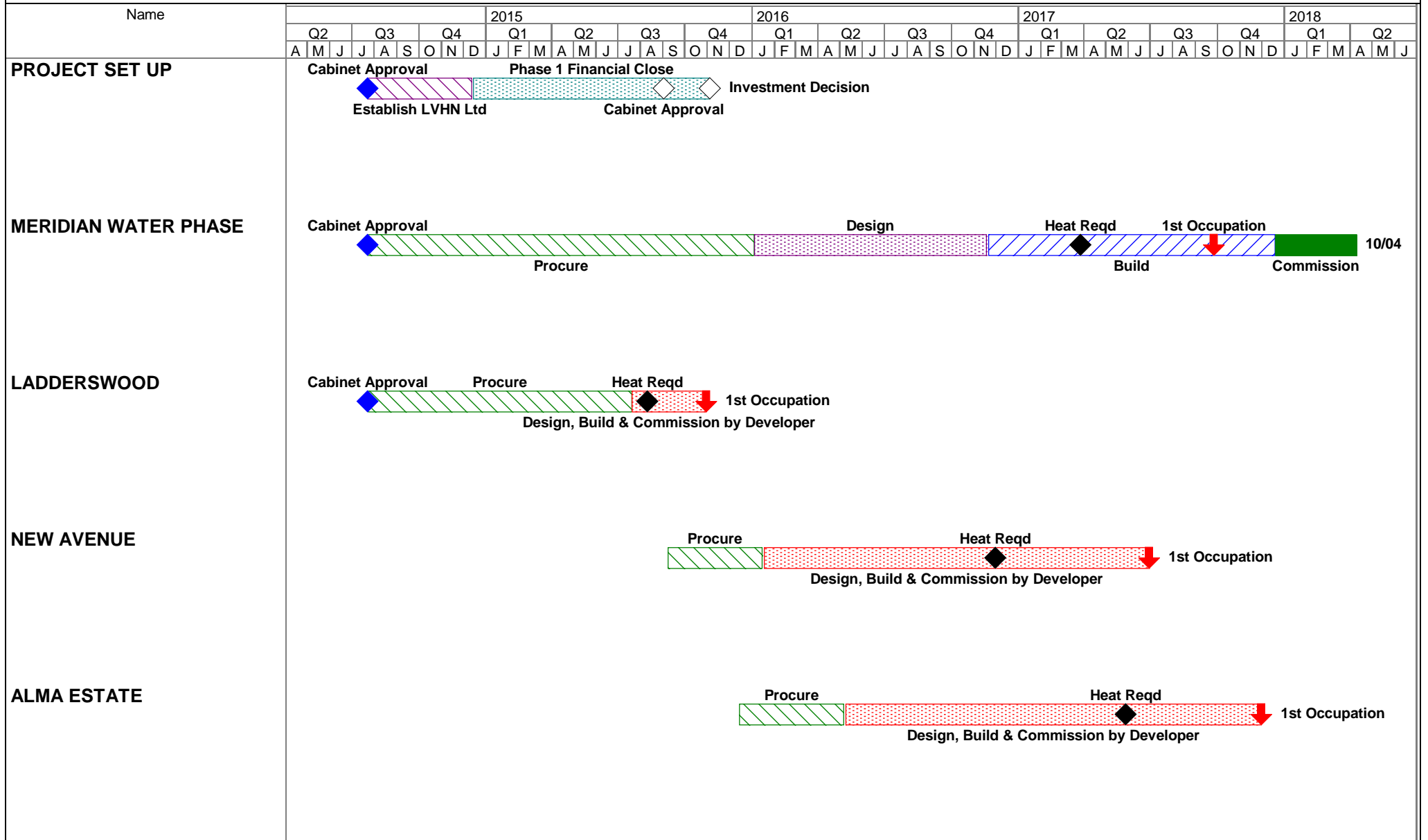
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Appendix 3

LVHN Summary Programme

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Lee Valley Heat Network



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Appendix 4

GLA Letter of Support

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Development, Enterprise and Environment

City Hall
The Queen's Walk
More London
London SE1 2AA
Switchboard: 020 7983 4000
Minicom: 020 7983 4458
Web: www.london.gov.uk

Mr Rob Leak

Chief Executive
London Borough of Enfield
Civic Centre
B Block North
Silver Street
Enfield EN1 3XY

Date: 25 October 2013

Ref: leak2510

Dear Rob,

I am writing this letter in support of the Lee Valley Heat Network, the decentralised energy heat network project you are leading in conjunction with the London boroughs of Haringey and Waltham Forest. We are lending our support during the project's development phase.

This landmark project will make an important contribution towards the Mayor's climate change targets and will be an exemplar of a public-led initiative that will deliver affordable, low carbon heat throughout the Upper Lee Valley.

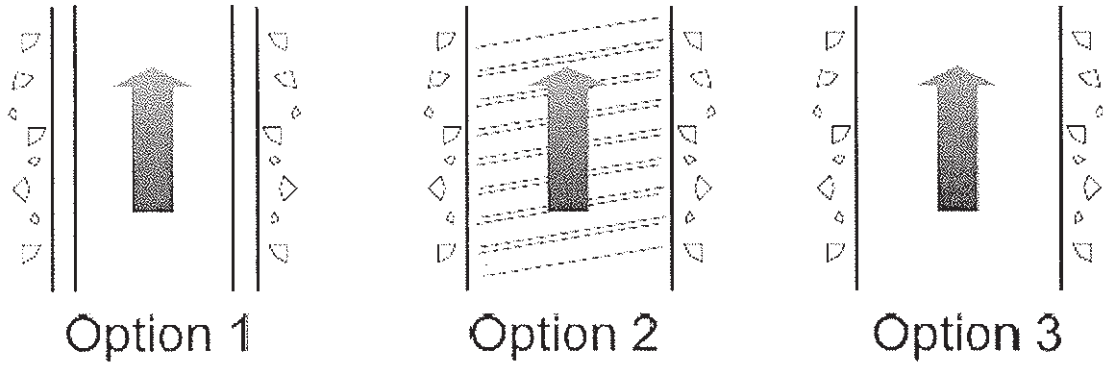
Please be assured of the GLA's continued support and I look forward to being kept informed of progress.

Yours sincerely,



Fiona Fletcher-Smith

Executive Director – Development Enterprise & Environment



To utilise heat from these sources for use in district heating a heat pump is used to elevate the supply temperature to that of the district heating operating temperature. The commercial viability of this arrangement improves with lower temperature uplift. This can be in part achieved through decreasing the operating temperatures of the district heating and this is being investigated separately.

The table below provides an indication of the LU contribution towards the heat balance for the Buhill project. The balance of the heat requirements will be supplied from the newly built CHP energy centre and heat-only boilers

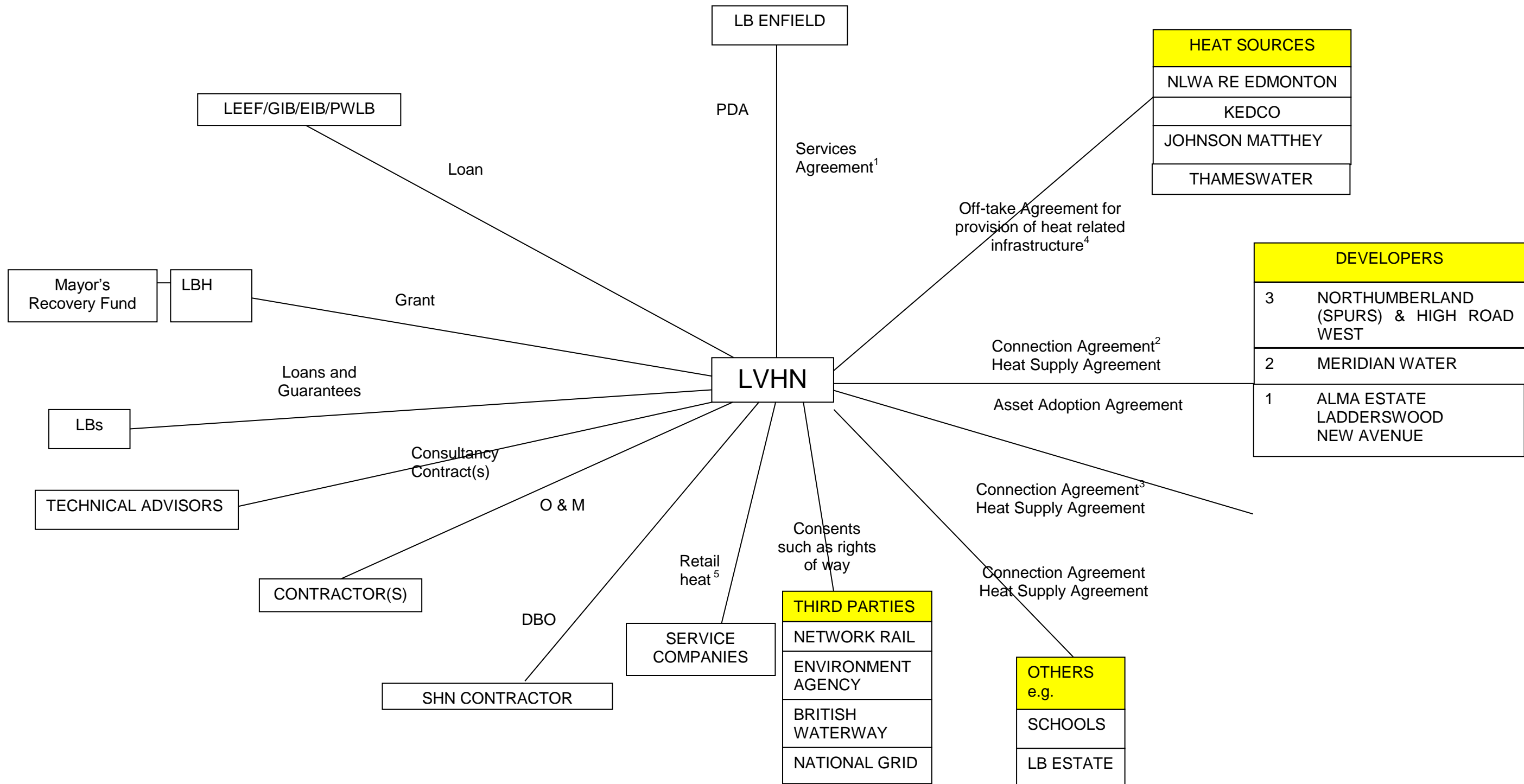
	Annual heat [GWh/yr]	Peak heat [kW]
Demand for whole site	30.4	10,600
Transformer heat supply	3.6	620
LU vent heat supply	3.3	540

Appendix 5

LVHN Contract Structure

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LVHN CONTRACT STRUCTURE



¹ Service Agreement for heat retail supply and others
² This could include 3 types of service offer: Basic wholesale heat supply agreement
O&M
Retail heat supply and potentially the sale of electricity
³ As for ² above but to include CHP units
⁴ To include obligations to finance installation and connection. At Edmonton for an energy centre as an alternative to a new incinerator. To include an option to purchase electricity generated
⁵ For example, meter reading, billing, revenue collection, customer services, demand aggregation

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