

MAYOR OF LONDON

Heat Networks in London

Philippa Ellis, Local Energy Accelerator Programme Lead, April 2023

HEAT NETWORKS – TOWARDS A NET ZERO LONDON

Heat Networks and some of their benefits



HEAT NETWORKS IN LONDON

- **Mayor set a target for London to be net zero carbon by 2030**
 - District Heating Networks (DHNs) have a key role to play in all of the Pathways looked at in 'London's Pathways to Net Zero Carbon by 2030' including our chosen 'Accelerated Green' Pathway
 - Approximately 460,000 heat network connections to dwellings by 2030
 - DHNs must, and can, do much more than just supply heat to existing and new buildings – renewables, storage and demand management
 - Supportive national policy and programmes and, soon, regulation
 - Renewable and district energy to supply 15% of London's energy demand by 2030

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Policy and Funding Support


- **Mayor's London Plan**
 - Energy and Heating Hierarchies actively supports decentralised energy and district heating
- **Mayoral Development Funding Programmes** (part-funded by ERDF)
 - **Local Energy Accelerator** – Supporting beneficiaries to develop large-scale decentralised energy (DE) projects with almost £4m of revenue funding and support
 - Provides funding and support to public and private sector for technical, commercial/financial and PM support services through a framework of consultancies to progress projects through to delivery
 - Greater focus on moving projects into construction and operation cc: predecessor (DEEP)
- **Mayoral Investment Capital Funding**
 - London Green Fund, Mayor's Energy Efficiency Fund and now Mayor's Green Finance Programme
 - Low cost, capital for energy projects, including DHNs

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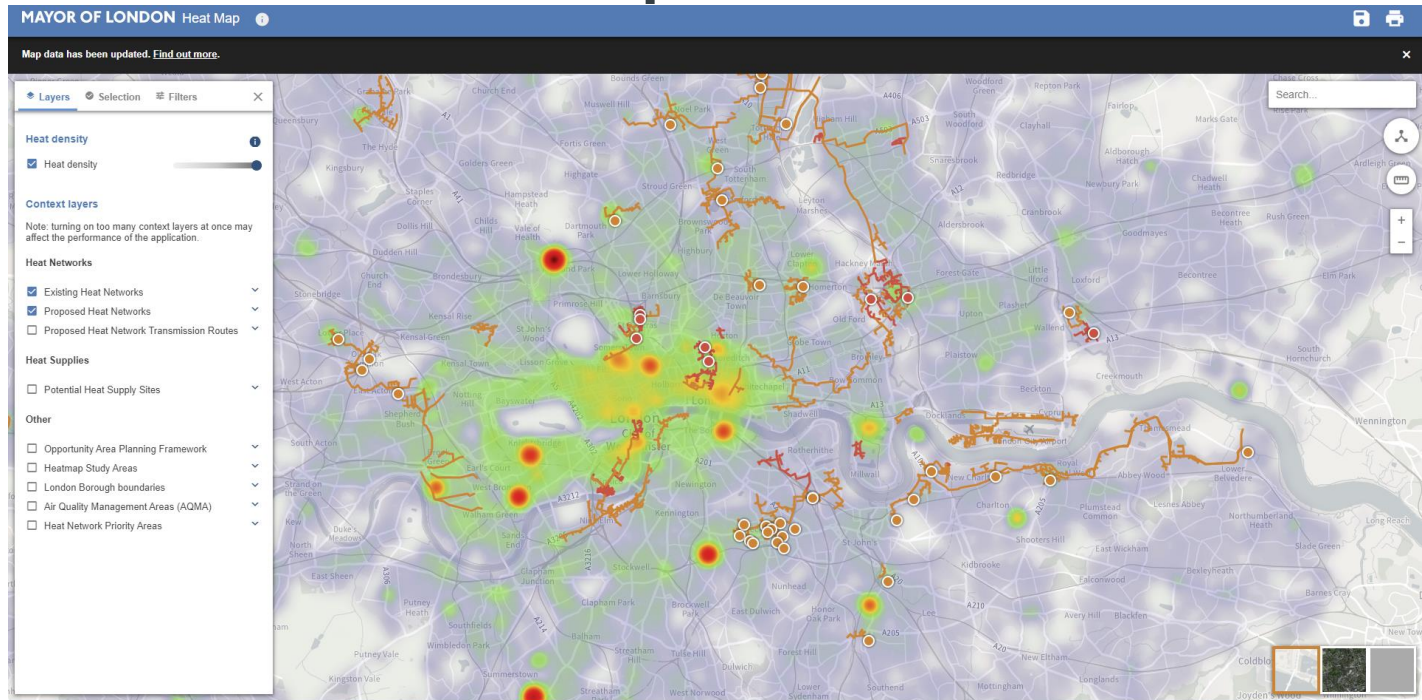
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The London Heat Network Manual II (published November 2021) provides practical technical and commercial guidance for planners, designers and developers of heat networks. It is intended to complement not supersede other published technical standards and good practice guides.

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The London Heat Map



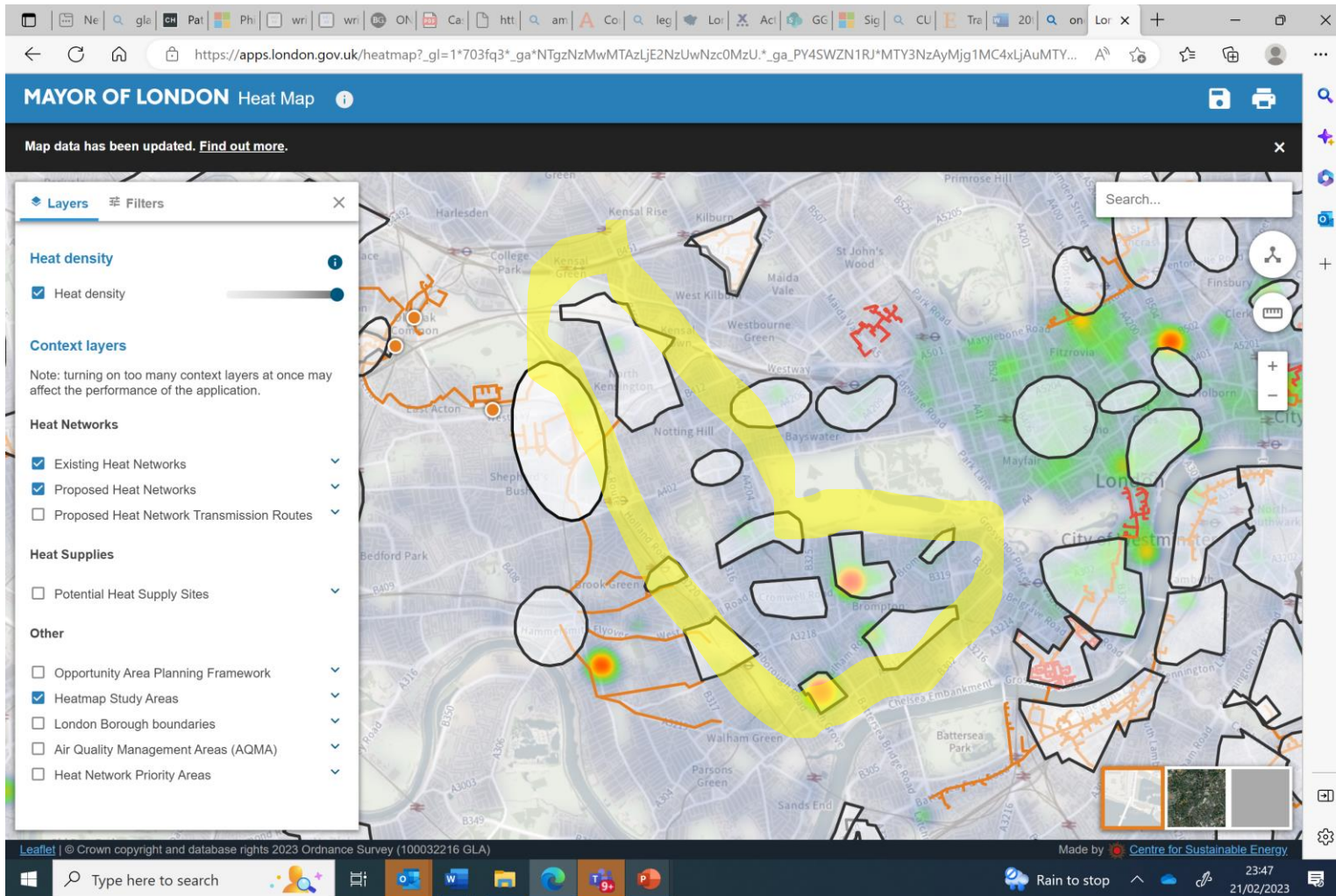
A map-based web application to find and appraise opportunities for decentralised energy projects in London with data and features such as:

- Locations of existing and proposed district heating networks
- Potential heat supply sites
- A spatial heat demand density map layer
- Annual and peak heat demand for each building
- A heat network design tool with preliminary techno-economic appraisal

Improvements underway:

- Addition of further existing and proposed networks in London (~15 new/updated networks in the last year)
- Addition of further potential heat supply sites especially around waste heat
- Update of heat network priority areas and identification of areas with high heat network opportunities
- An outreach and training session in summer 2023

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- Opportunities to decarbonise your borough with heat networks
- Regulation and Zoning will actively support this and tackle barriers
- Opportunities to work with adjacent boroughs on creating larger strategic networks