

## Upper Lee Valley (ULV) DE Networks Pre-feasibility

The Upper Lee Valley (ULV) is one of London's most exciting areas of change, and the opportunity for DE in the ULV is unique. The area combines strategic energy assets including Enfield power station and Edmonton energy-from-waste plant, great waste resources, regeneration activities, and an industrial corridor that hosts several significant users of energy. There is also long term potential for connection to a London-wide series of networks including the Olympic Park and the London Thames Gateway Heat Network.

A Decentralised Energy Network in the ULV would:

- Provide low carbon, low cost energy to 10,000 homes and more than 150 businesses, utilising available waste as a fuel or waste heat as an energy source.
- Secure at least 1,700 additional jobs for the area for the period to 2026.
- Reduce the cost for developers of compliance with the Code for Sustainable Homes, BREEAM and anticipated revisions of the Building Regulations.
- Cut CO2 emissions by 41,000 tonnes per annum, the equivalent of 9,750 homes annual CO2 production. Council property portfolios could see 25% reductions in emissions for those buildings connected.

The key conclusions of this study are:

- Strategic **heat supply** locations identified for further development for a DEN include the **Edmonton EcoPark** and the **Kedco Biomass Gasifier**.
- Initial development of the DEN would be based on heat from the **Kedco Gasifier** to a 'Core Scheme' area including Edmonton, Commercial Rd / Silver Street, Northumberland Park, Marsh Lane, Central Leaside and Picketts Lock.
- Medium-term strategic network growth would be based on heat from a new-build Energy from Waste plant on the **Edmonton EcoPark** site.
- Viable local networks that would support development of the strategic network have been identified at Blackhorse Lane, the Tottenham Town

Hall area, Waltham Forest Town Hall/ Wood Street area, and Walthamstow Town Centre.

- A local network has also been identified at Wood Green / Haringey Heartlands. This is unlikely to connect to the strategic network in the short to medium term, but should be developed independently.
- More detailed feasibility studies for two potential strategic network routes for heat distribution should be undertaken – the ‘Olympic Park’ configuration and the ‘Tottenham’ configuration.