

Decentralised Energy Delivery Programme

3rd July 2008

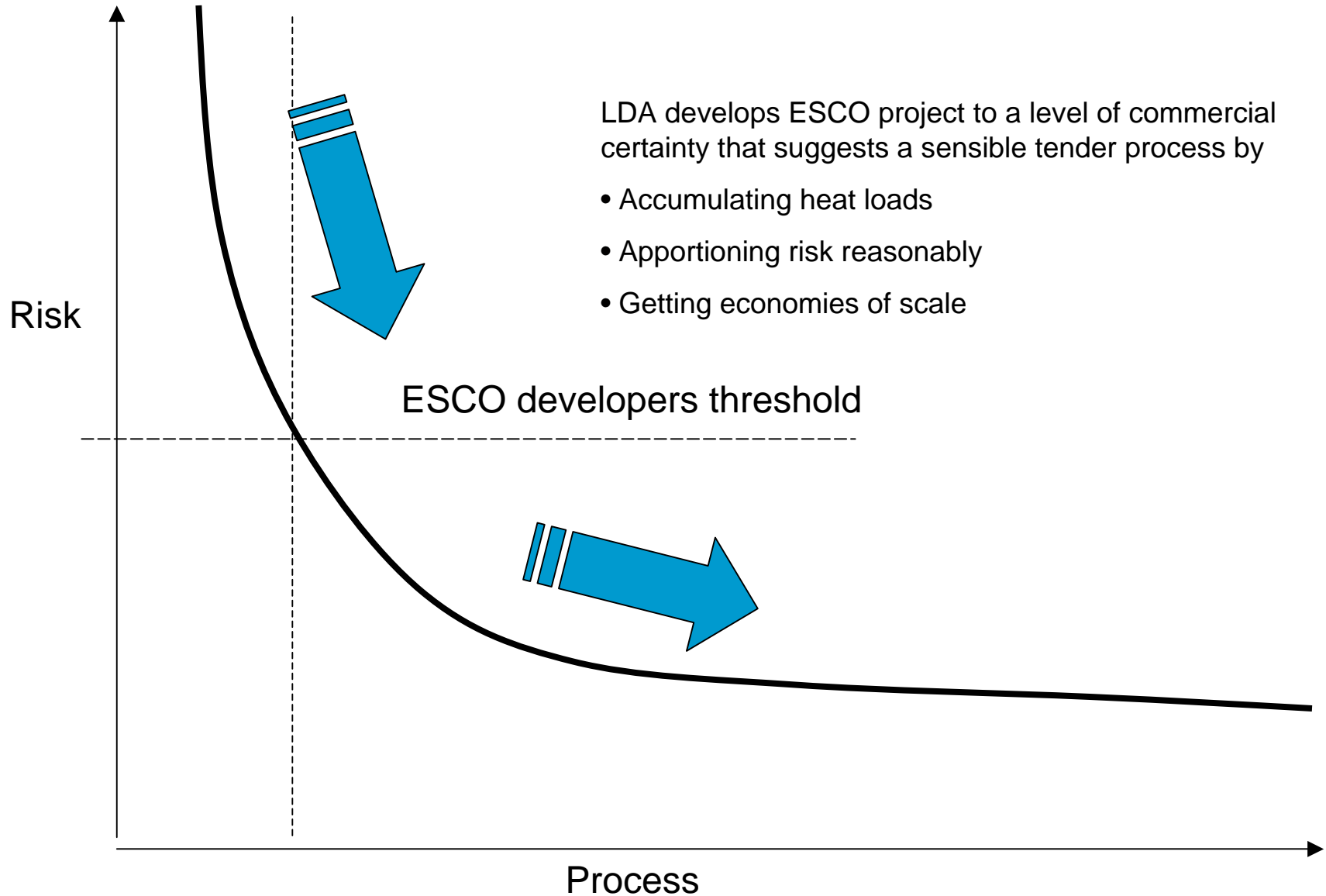
Malcolm Ball

Director of Decentralised Energy Delivery

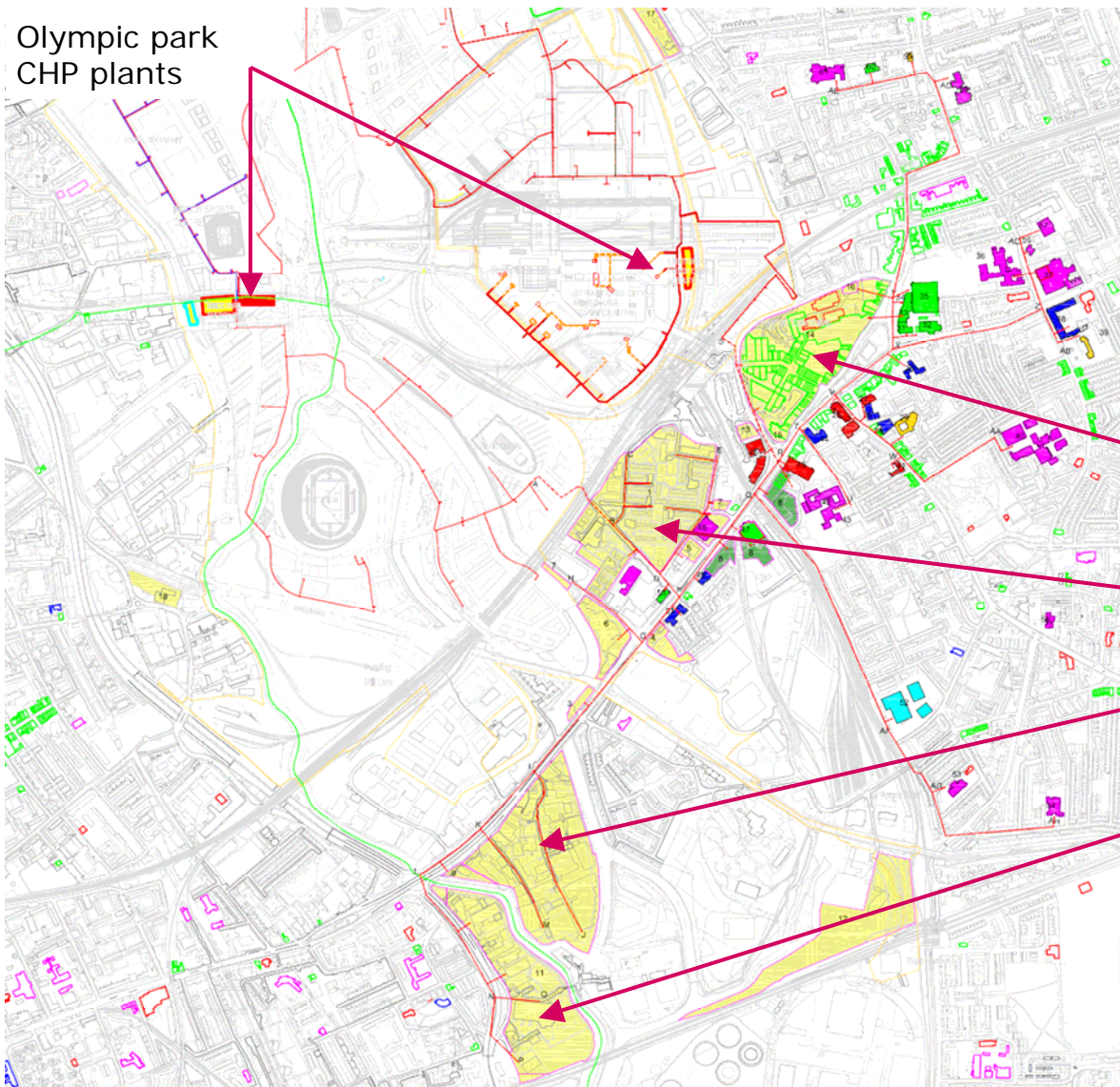


- The objective of the DED team is to **deliver** low and zero carbon energy supply schemes where:
 - The market is failing to do this or,
 - Where the market is proposing a sub-optimal solution
- This may occur where:
 - Long development timescales create too much uncertainty and risk for commercial involvement;
 - Contiguous developments are pursuing independent approaches where a collective approach would be much more effective;
 - The size of the project is too small to deploy the best technology.
- Projects will:
 - Be based on **conventional proven technologies**
 - Take forward projects that are otherwise **commercially viable**
 - Fulfill the Mayor's climate change strategy

Taking ESCO developers down the risk curve



Olympic Fringe CHP/district heating (LTGDC)



10,000 new dwellings

1m ft² Commercial

6m tonnes of CO₂ reduction potential

Stratford town centre

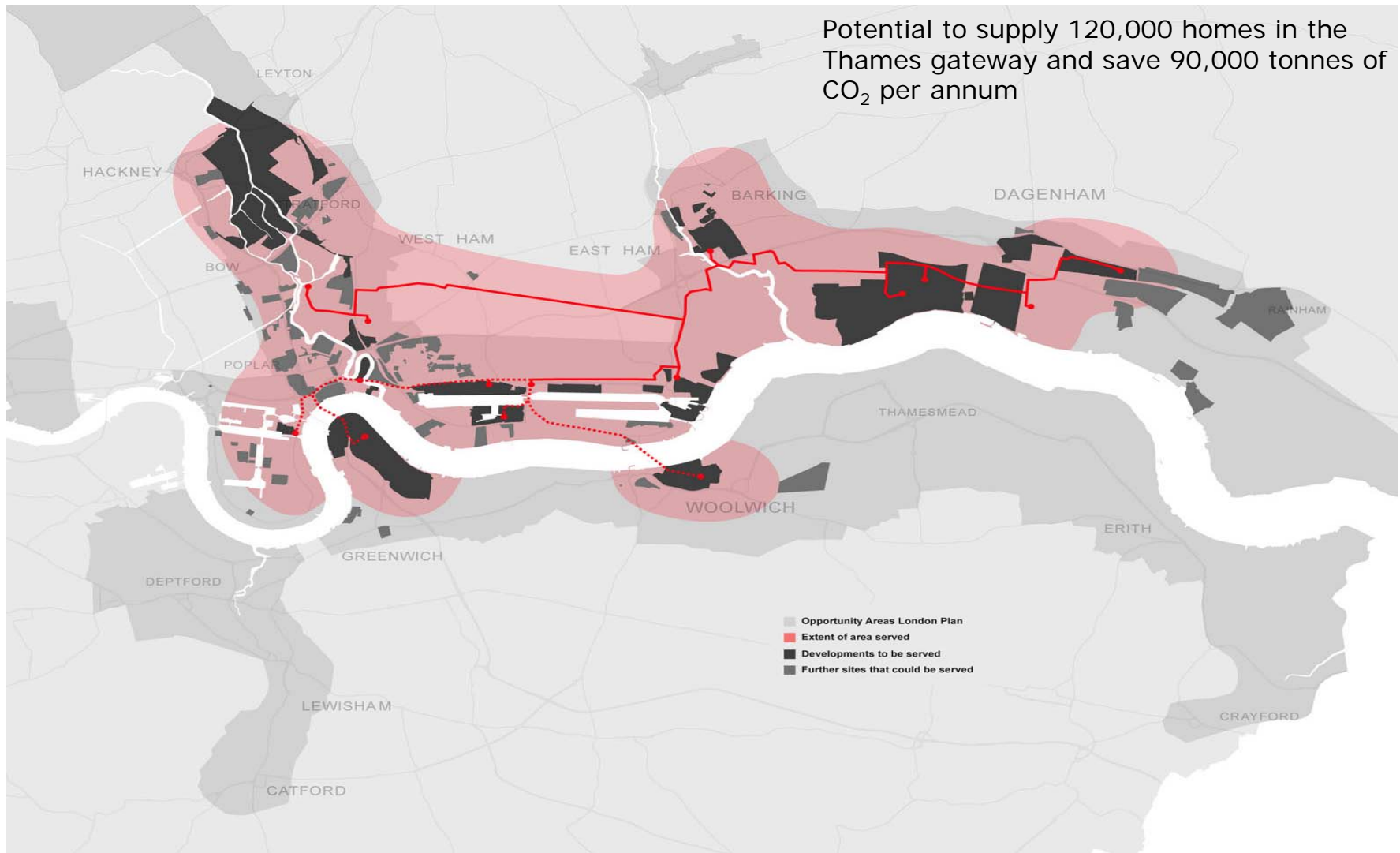
Stratford high street

Sugar House lane

Bromley on Bow

Decarbonising the Thames Gateway.

Potential to supply 120,000 homes in the Thames gateway and save 90,000 tonnes of CO₂ per annum



Power Station

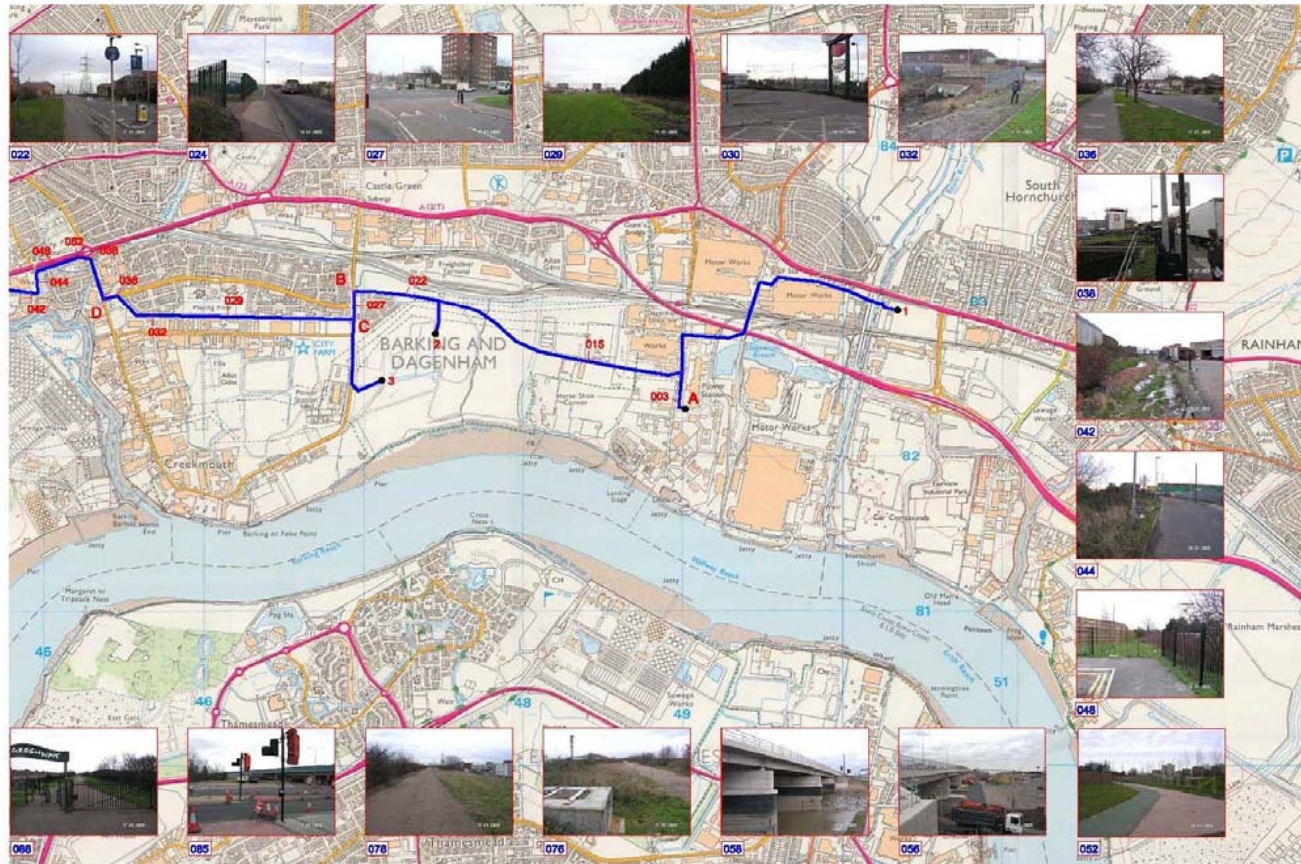
- Combined cycle gas turbine plant (CCGT)
- 1,000MWe from 5 gas turbines and two steam turbines
- 46% efficient (**400MWth** of heat into Thames)
- Addition of a further 400MWe planned
- Owners have committed to supplying **100MWth** heat from the new extension

The Benefits

- Potential to supply 120,000 homes (400MWth)
- Saves 90,000 tonnes of CO2 per annum

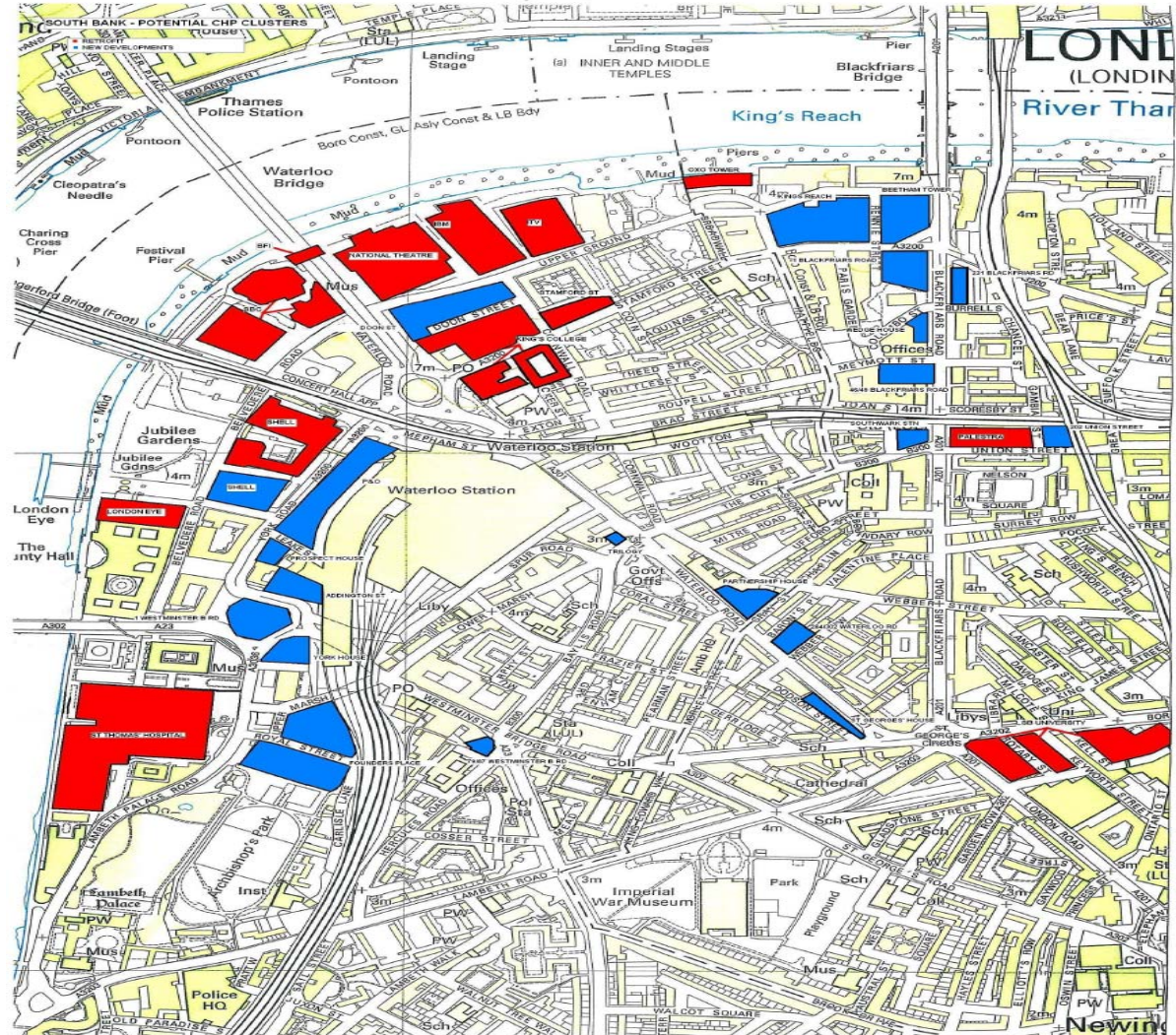


Barking Power District Heating Pipework Routes (1)



SBEG Initiative (South Bank Employers Group)

- Proposed developments
- 2,000 hotel rooms
- 3.28m ft sq offices
- 30,000 ft sq retail
- 1,800 dwellings
- 11 Existing loads, including Guy's, Shell building, IBM etc



Decarbonising the Thames Gateway.

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