Appendix 2

ULV DEN Feasibility Study Contents (120811)

1. Introduction
2. Background
3. Feasibility Study Objectives
   Heat and power
   Identify cases to take forward for business case and tendering
4. Pre-feasibility Study Summary
5. Study Requirements
   a. Study Options
      i. Heat off-take from existing Edmonton EfW plant
      ii. Kedco gasifier
      iii. New EfW scheme at Edmonton EcoPark fuelled from local waste streams including future NLWA waste management contract output (SRF) and/ or commercial and industrial waste?
      iv. Local gas-fired CHP plant – 'satellite schemes' *(funding permitting) :*
         1. Those with potential to interconnect to the main district heating network:
            a. LBWF Wood Street South
            b. LBWF Walthamstow Town Centre
            c. LBWF Blackhorse Lane – South
            d. LBWF Town Hall
            e. LBH Tottenham Town Hall
            f. LBWF Blackhorse Lane - North
         2. Those with little or no immediate potential to interconnect:
            a. LBH Haringey Heartlands
   b. Energy Demand:
      i. Review and confirm proposed energy loads (location, typology, peak demand, annual consumption and profile, forecast build-up for new developments, building heating system typology – e.g. central or not - for existing developments)
      ii. Consider other demand, ie Meridian Water.
   c. Review energy sources and energy production options, including Thames Water
   d. Calculate energy balances
   e. Energy production plant detailed feasibility:
      i. Determine arrangement (type of assets) and dimensioning (size and footprint, with particular attention to thermal stores).
      ii. Feasibility of supply (Edmonton EfW, Kedco and NLWA SRF)
      iii. Identify energy centre locations and potential impacts (flue height, pollution, etc.
      iv. Determine energy centre CAPEX and OPEX
      v. Utility connections
   f. District heating network:
      i. Routes *(Tottenham Hale and Olympic options)*
      ii. Dimensioning

iii. Key route constraints and solutions (inc. liaison with landowners/ utilities)
iv. CAPEX and OPEX
v. Consumer connection arrangements including heat metering
vi. Establish the district heating technical standards with the GLA

g. Planning and permitting issues (energy centres and DH routes)
h. Option evaluation
    i. Financial appraisal: heat sales, export power, retail power (licence lite)
    ii. CAPEX and OPEX
    iii. CO_2 savings
    iv. Sensitivity
    v. Financial results
i. Preliminary Commercial Arrangements
    i. NLWA tender
    ii. Energy Sales
    iii. Energy purchasing
    iv. Project vehicle

6. Summary and Conclusions
7. Recommendations
8. Next Steps