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RECYCLING • PLASTIC WASTE • BIO-WASTE • ECONOMY

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PRESENTATION

The North London Heat and Power Project – Securing Future Waste Management Needs

Projekt "The North London Heat and Power" – zabezpečenie budúcich potrieb odpadového hospodárstva.

KEY WORDS

Local Authority, Household Waste, Energy Recovery, Development and Construction

ANNOTATION

The aim of the North London Heat and Power Project (NLHPP) is to build new facilities that will enable the North London Waste Authority to continue its long term sustainable management of waste.

Construction of the NLHPP will soon commence and will take place at Edmonton EcoPark – a 16 hectare site in the Upper Lee Valley.

The components of the NLHPP are:

- an Energy Recovery Facility (ERF), to be located in the north of the site, which will treat up to 700,000 tonnes of residual waste a year and provide enough electricity to power over 127,000 homes, with some energy diverted to supply heat to local homes and businesses via a heat network;
- a Resource Recovery Facility (RRF), to be located in the south of the site, which is where bulky waste will be separated for recycling, and will also be the location of a recycling centre for the public and businesses from 2021;
- EcoPark House, located near the River Lee Navigation, which will contain office accommodation and a visitors' centre where people can find out more about recycling, waste, heat, and power; and
- Demolition and removal of the existing Energy from Waste (EfW) facility, which will reach the end of its operational life around 2025.

...ANNOTATION

The estimated capital costs for the project are some £650M. In advance of main construction activities, a series of preparatory works will be required to prepare the site, provide new utilities and create new site access points.

To help underpin this project, in October 2016 a residual waste compositional survey was undertaken for the North London Area. This was part of a two part survey designed to cover two seasons and overall, the

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The aim of this paper will be to chart the development of the NLHPP, provide an update on progress to date, and give an indication of forward looking programme of procurement and development activities.

The paper will also pose the question of whether the food waste presents further opportunities for resource recovery in a highly urbanised environment with high levels of transience and deprivation.

LECTURER'S PROFILE

Euston Ling holds a Bachelor of Chemical Engineering degree and a Masters of Business and Technology. He is a Fellow of the Chartered Institution of Wastes Management and is Vice Chair their London and Southern Counties Centre Council. Euston is also a member of the National Associate of Waste Disposal Officers Policy & Advisory Committee.

With over 25 years of experience in the UK and international solid waste management and sustainable resource sector, Euston is presently employed by the North London Waste Authority as their Planning and Technical Manager, and has lead responsibility for all technical aspects associated with the delivery of the Authority's replacement Energy Recovery Facility which will be capable of treating 700,000 tonnes of residual waste per year from 2026 onwards.

Prior to working at NLWA, Euston work in a number of consultancies providing technical advice to local authorities throughout the UK and overseas, particularly in the area of procurement and numerical modelling. Euston also worked for the major public sector waste management company in New South Wales, Australia, where he had lead accountability for waste and recycling sorting, processing, and disposal arrangements for the Sydney 2000 Olympics. Prior to this, Euston worked for a number of years in Hong Kong on a major landfill site, and the remediation of former landfills in Sydney.

ORGANIZATION'S PROFILE

North London Waste Authority's (NLWA) primary function is to arrange for the transport and disposal of waste collected by seven boroughs (Barnet, Camden, Enfield, Hackney, Haringey, Islington and Waltham Forest) and to promote waste minimisation and recycling. NLWA's aims are to:

- achieve a 50% recycling rate by 2020; and
- reduce the amount of waste sent to landfill to 35% (of 1995 amounts) by 2020

...ORGANIZATION'S PROFILE

Nearly 1.9 million residents live in the NLWA area and in total, NLWA is responsible for helping the seven north London boroughs dispose of around 850,000 tonnes of waste collected every year.

To meet its obligations, NLWA organises the treatment and disposal of north London's household waste and recycling through its wholly owned company, LondonEnergy Limited. To achieve this, waste is handled through one or more of the following facilities:

- Edmonton solid waste incineration plant, an energy from waste incinerator located at the Edmonton EcoPark in the London Borough of Enfield
- Fuel preparation plant, a road transfer station located at the Edmonton EcoPark
- A bulky waste recycling facility, located at the EcoPark
- In-vessel composting plant, located at Edmonton EcoPark
- Hendon rail transfer station, located in the London Borough of Barnet
- Hornsey Street road transfer station, located in the London borough of