

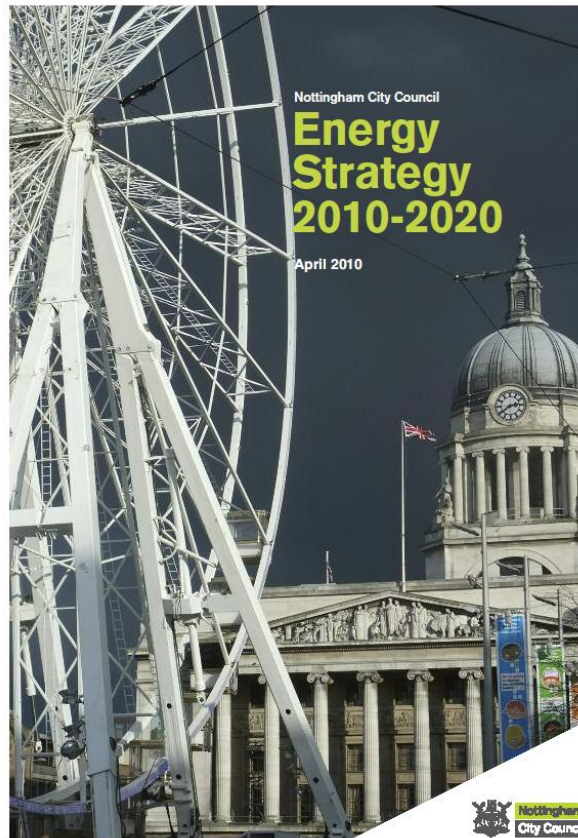
# Municipal Energy – Nottingham's approach to Generation, Distribution and Supply

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# Nottingham Energy Strategy



# Generation – small scale

## • DOMESTIC

- 3,500 social houses completed
- Further 3,000 social houses identified for Phase 2
- £10M capital approval
- Investigating “Rent a roof” scheme for private homeowners
- Delivery through internal DLO

## • COMMERCIAL

- 10 installations completed on Council owned properties
- Further investment of £2.1M investment on car park canopies and £0.5M investment roofs
- Extension to strategic partners in city
- Delivery schedule currently in development

# Generation – large scale

## THIRD LINE

- 140,000tpa MSW mass burn incineration
- 12MW energy output
- £86M investment

## BULWELL ENERGY PARK

- 160,000tpa C&I waste gasification
- 30MW energy output
- Private investment

## BIOMASS

- Feasibility as secondary DH heat source – HNDU project

## COMBINED HEAT & POWER

- Two gas powered CHPs installed in leisure centres (swimming pools)
- Further feasibility underway (Biocity)



# Energy Efficiency

- Delivered OVER 40,000 energy saving measures across Nottingham to date including 4,000 External Wall Insulations, focusing on neighbourhoods in fuel poverty
- 2014-15 programme value exceeds £8M of investment
- Providing local opportunities for employment and training
- Targeting 2,000 social and 3,500 private houses in 2015-16 utilising European funding (H2020)
- Developing an in-sourcing model

# Energy Efficiency

- Invested over £2.0M since 2007, saving 12 GWh
- 252 significant energy efficient installations since 2007 including 42 LED lighting systems
- REFIT across 8 buildings – 26% energy reduction – monitoring “go live” April 2015
- Over £1.5M of identified future projects to install, generating £172k p.a. of energy savings
- Focus on Investment Portfolio – over 1,200 buildings owned by Council across City

# Distribution

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- Heat Strategy Master Planning opportunities
- Energy from waste to be added to the network
- NCC wholly own the network
- Heat Network Delivery Unit (HNDU) – 10 efficiencies projects to improve network performance
- LA's have a key role to play in heat network expansion
- Future value in 'use of system'

# Supply – Direct energy sales

- Manifesto commitment, ‘Create a new, cheap Energy Tariff
- Developed a switching site, collective switch
- Looked at alternative models, License Lite, White Label
- Build on Nottingham’s experience



# Building on our experience

- Over 10 years experience in running an ESCO, plans for further energy generation
- Supplying domestic heat to district heating customers,
- Supplying private wire, electricity sales to commercial customers, in addition to heat sales
- Supplied a credit billing service to 100,000 domestic customers



# Not for the faint hearted

- Timescale, 18 months
- Set up cost £1.3m, procured a license in a box, a fully licensed energy supply company.
- Industry experts required
- State aid implications
- Resource, Legals, Finance, Procurement



# Our Role

- LA's have a key role to play in strategic energy policy, from generation to supply
- Common goals, reducing levels of fuel poverty by offering fairer prices
- Tailoring a customer service to meet local needs
- Trust

