

Cory Riverside Energy

Zero Waste Study Tour

31st August 2018





- Cory Riverside Energy: Who We Are
- Cory's Background
- Riverside Development
- Riverside Financing & Refinancing
- Riverside Energy Park



CORY RIVERSIDE ENERGY: WHO WE ARE

- Cory Riverside Energy is one of the leading waste management companies in London with c.300 employees across our network of sites and facilities
- Established in 1896, over 120 years of serving London \succ
- Manage >750k tonnes of London's waste \geq









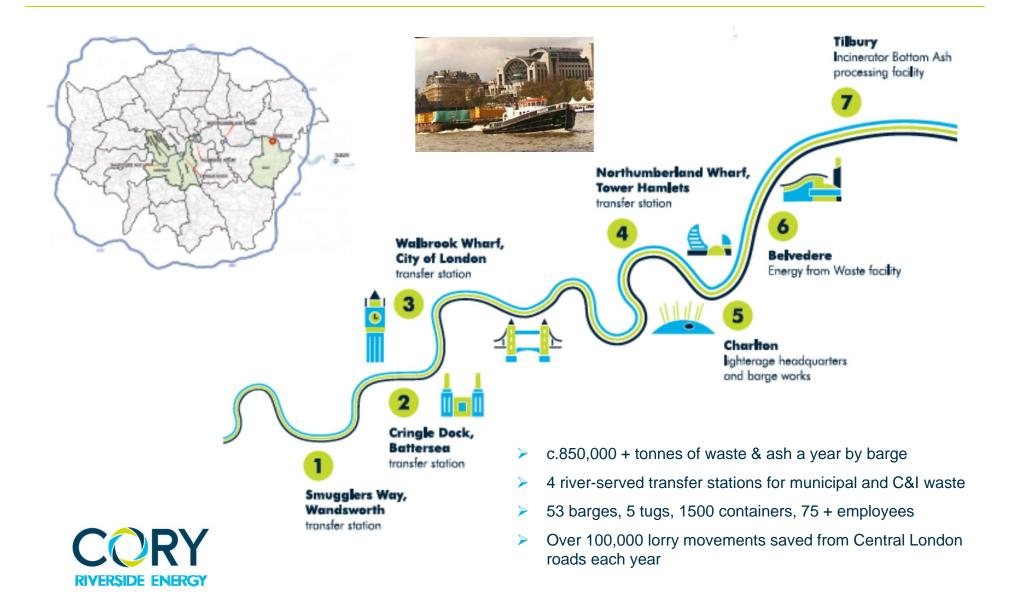


- Work closely with local authority partners
- Unique river transport for waste management – utilising the River Thames as a Green Highway





CORY RIVERSIDE ENERGY: WHO WE ARE



CORY'S BACKGROUND

- In 1896 William Cory and Son tugs and barges brought coal into London using the River Thames
- The empty barges were then filled with London's rubbish and towed back down stream where the waste was to be deposited in the marshlands of Essex and Kent
- 1918-1920 Expansion through acquisition of steamers, tugs and barges and lighterage companies
- In 1983 Cory wins tender for disposal of Greater London Council's waste (500k tonnes per year) Introduction of the containerised waste transport method to the riparian Mucking landfill site in Essex







CORY'S BACKGROUND CONTINUED

2002 Cory wins a 30 year contract worth £1.2bn with four London boroughs of Wandsworth, Kensington & Chelsea, Lambeth and Hammersmith & Fulham which make up the Western Riverside Waste Authority (WRWA) - securing the river operations

Fully integrated contract including: -

Waste education programme Provision of recycling infrastructure (Materials Recycling Facility) Provision of modern civic amenity infrastructure EfW at Belvedere site for residual waste

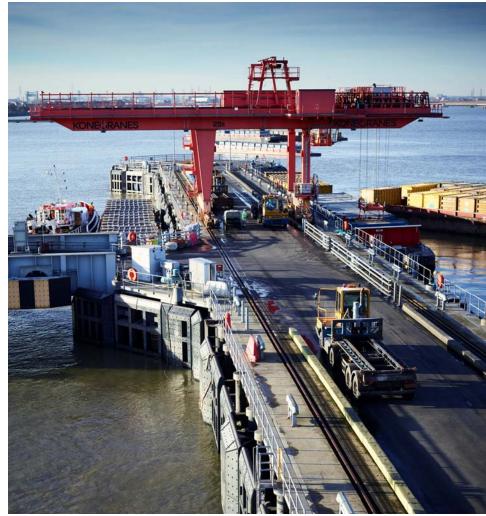


Innovative approach which addressed the waste hierarchy was important for securing planning for all infrastructure



OUR VISION

- Build on CRE's existing position as the cleanest and most efficient processor of London's and the South East's residual waste: generating secure, affordable, renewable energy and manufactured construction aggregates.
- Be recognised as leaders in thought and actions to make the UK's Circular Economy a reality
- London "No Waste Wasted" by 2030: no waste to landfill or exported. All London's waste processed within London's boundaries.
- As the most prolific river operator, CRE leads modal shift of freight from road to river - a "new" business stream that reinforces and compliments our unique river heritage and low carbon route for the disposal of waste.





CORY RIVERSIDE ENERGY: WHO WE ARE

- Riverside EfW, R1 rated in operation since 2011 in Belvedere, South East London
- Processing up to 785,000 tonnes of waste annually
- Regenerate circa. 200,000 tonnes of useful construction materials
- Produce circa. 525,000 MWh of baseload electricity annually (equivalent to powering 160,000 homes)
- Fleet of tugs and barges transfer circa. 1 million tonnes of London's municipal and commercial waste and by-products annually via the carbon efficient green highway of River Thames





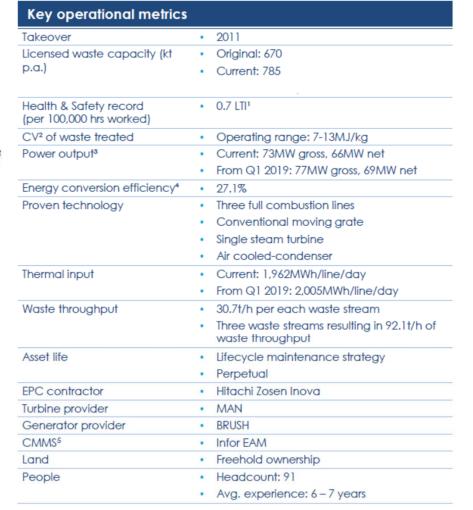


EXISTING RIVERSIDE RESOURCE RECOVERY EFW FACILITY

Riverside process diagram

Overview

- CRE's processes and plant equipment are based on commercially proven principles
- Grate-based combustion systems are by far the most developed for processing solid waste
- The facility has been granted 'R1' certification by the Environment Agency, in recognition of its efficiency





ELECTRICAL OUTPUT

- Among top performing UK electricity only EfW plants (kWh/tonne basis)
- 525,000 MWh of electricity generated annually equates to:



(1 MWh = 1,000 Killowatt hours)



OPERATIONAL PERFORMANCE

- By generating circa. 525,000 MWH per annum, we offset large amount of fossil fuels used for generation equivalent to 210,000 tonnes of coal or 105 million m³ of natural gas
- Operational Statistics to end July 2018 (from commencement of operations in 2011): -
- > 5.1m tonnes of waste processed
- > 3.4m MWh of electricity exported
- c. 1.0 m tonnes of Carbon diverting waste from landfill (200kg per tonne of waste diverted)

Secondary Aggregate upcycling from process

- 1.3m tonnes of Incinerator Bottom Ash
- > 134k tonnes of APC Residue





Fossil Fuel Equivalent usage

1.4 million tonnes



683 million m³ natural gas



Circular Economy

KEY NUMBERS



LESS LANDFILL 750,000

Up to 750,000 tonnes of London's waste turned into electricity and recycling product



RUBBISH TO ROAD 200,000 Up to 200,000 tonnes of ash recycled as construction aggregate



GREEN HIGHWAY

Vehicle journeys saved using our carbon efficient fleet of tugs and barges to move waste along the Thames



BIN TO BRICK 10,000

Up to 10,000 tonnes of Air Pollution Control Residue recycled to create building blocks for use in construction



LITTER TO LIGHT 160,000

Households powered with the c.525,000 MWh energy we generate



LOCAL DISPOSAL 149,000

Tonnes of carbon saved by not sending waste to landfill



RIVERSIDE DEVELOPMENT - BACKGROUND

- 1991 1st Planning application submitted and public inquiry refusal based on 1.2m tpa facility size, undeveloped access road and concerns over site
- 2003 and 2005 public inquiries held following refreshed planning application for 670k tpa facility, redeveloped access road and consolidated environmental statement
- > PPC permit granted by the Environment Agency
- Riverworks Licence received from the Port of London Authority for works connected to the provision of the deep water jetty
- > Waste will be delivered to the site and ash exported by river
- > June 2006 The Secretary of State for Trade and Industry granted planning consent for the facility
- > Judicial Review mounted by the Mayor of London
- February 2007 review rejected
- January 2008 construction commenced on Norman Road followed by main site in July



RIVERSIDE DEVELOPMENT – ORIGINAL FUNDING

- > 31 July 2008 Cory reaches financial close on Riverside
- Total project funding £570m provided by debt / equity
- Lead arrangers of the debt:







- Raising of finance took approximately 1 year, reflecting both the complexity of the project and the impact of the credit crunch on the financial markets
- Subsequent Syndication process over last 26 months (following Lehmans and financial markets collapse)
- £465.8m banking facilities as follows: -

Facility	Funding
Term Loan	£430.8m
Contingency	£25.0m
Change in Law	£10.0m
TOTAL	£465.8m



RIVERSIDE REFINANCING – DUE DILIGENCE

- Financial Accounting PWC
- Financial Model Audit PWC
- Financial Structuring Deloitte
- Legal Financeability Linklaters
- Legal Project Structure and amendments Ashurst
- Legal Cory Group Structure Slaughter & May
- Technical Fichtner
- Market
 Tolkvik Waste supply & gate fees
 - Baringa Electricity Market prices
- Insurance Willis



pwc Deloitte. Linklaters ashrst

SLAUGHTER AND MAY

FICHTNER Consulting Engineers Limited



WillisTowers Watson IIIIIII

RIVERSIDE DEVELOPMENT – REFINANCING

- > March 2017 Cory reaches financial close on Refinancing of Cory Riverside Energy
- > Total refinanced debt of £520m



Facility	Funding
Term Loan	£430.8m
Contingency	£25.0m
Change in Law	£10.0m
TOTAL	£465.8m

Milestones prior to refinancing

- Successful commissioning and operational & financial track record (3.9Mt; 2.65M MWh)
- Increase in planning consent from 670k tpa to 785k tpa; ability to source waste via Tilbury; secured additional Tilbury Transfer Station Facility



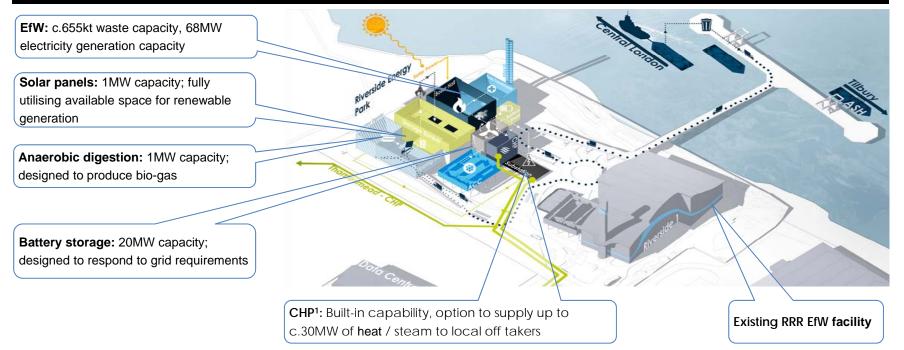
RIVERSIDE ENERGY PARK & DATA CENTRE





RIVERSIDE ENERGY PARK

Riverside Energy Park ("REP")



- Cory's solution to London Capacity Gap
 - Nationally Significant Infrastructure Project (as >50MW per the Planning Act 2008
 - Considered through a Development Consent Order (DCO) process rather than a tradition Town & Country Planning Act process



Any questions?



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