



# Waste Planning & Permitting

Energy & Resource Recovery



Committed to Safe and Sustainable Practices

# Who we are

Stantec is a top tier global consultancy. We have been working with our clients and communities in the UK for over 150 years. We have consistently been at the forefront of planning, design and delivery of infrastructure and development in the UK.

With offices across the UK, Stantec has a strong reputation for its work with public and private sector clients on a diverse range of high-profile infrastructure and development projects.

## Stantec in the UK

### Our people

**1700** INFRASTRUCTURE, BUILDINGS, WATER & ENERGY

**250** ENVIRONMENT & SUSTAINABILITY SERVICES

**160** TRANSPORT PLANNING

**40** PLANNING SERVICES

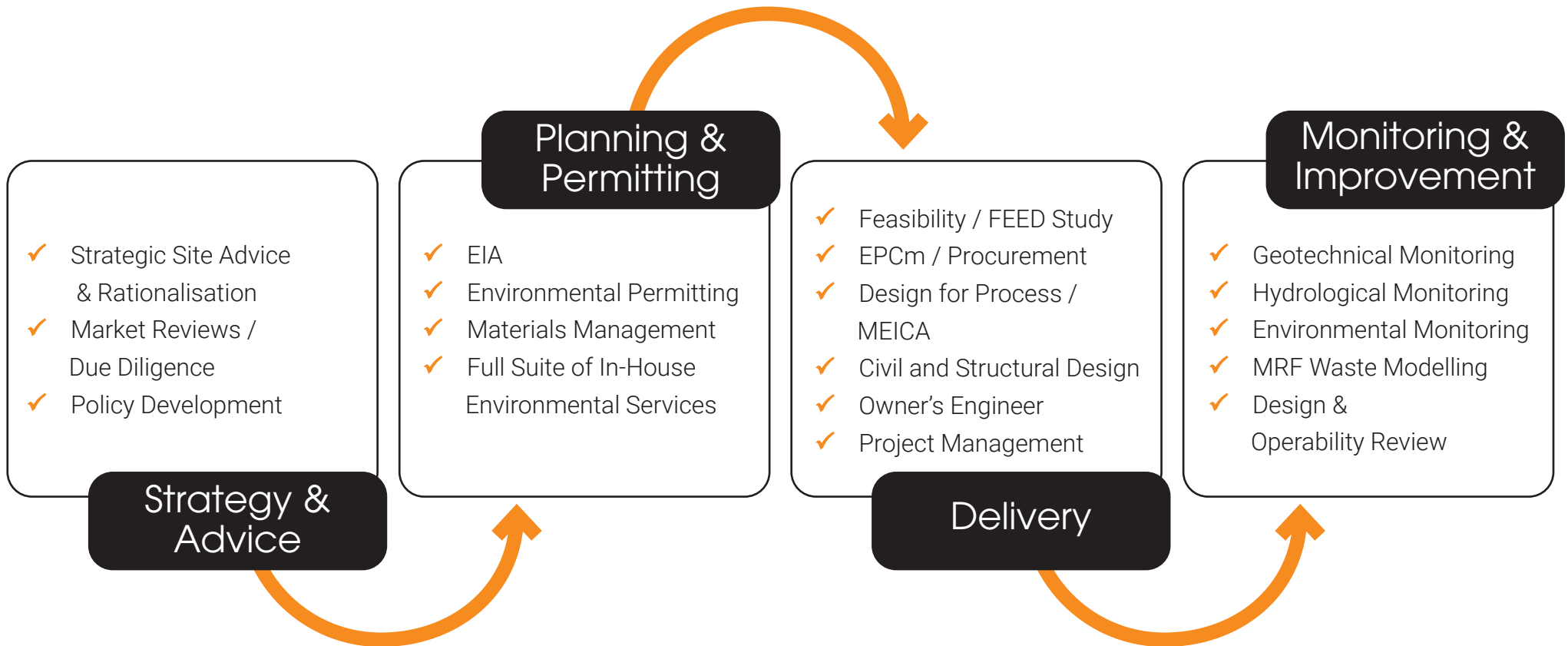
**200** CIVIL ENGINEERING

**95** BUILDING STRUCTURES & UTILITY SERVICES



# Waste and Resources Sector

Range of Stantec Services



# Developing Waste Infrastructure

Our team of Waste Managers and Planners has a proven track record of delivering a wide range of waste management infrastructure. Through the development of a planning or permit application, or the discharge of consents and conditions, our understanding of both waste operations and the waste planning regime facilitates the delivery of operationally workable solutions.

With experience in delivering waste infrastructure for both the Private and Public Sector, we understand both the Town & Country Planning Act and the Planning Act 2008 regimes. We know what is required to get infrastructure delivered efficiently, and can support our clients through the most appropriate, effective consent route.

## EXPERIENCED IN THE DELIVERY OF SMALL TO LARGE SCALE INFRASTRUCTURE

Landfill

Household  
Waste  
Recycling  
Centres

Depots

Waste  
Transfer  
Stations

Recycling &  
Processing  
Facilities

Anaerobic  
Digestion

Mechanical  
Biological  
Treatment

Energy  
from  
Waste

*...“I would just like to formally record my sincere thanks for a job very well done. Stantec has proved invaluable to this, at times, arduous process. It is absolutely right to say that my team could not of achieved this very positive outcome without your considerable input. Your ability to predict what was coming and what was going to be the real issues has certainly made the whole process run much more smoothly.”*

Head of Strategic Projects at Oxford Direct Services thanked the Stantec team on delivering a successful planning outcome for a new Recycling Transfer Station

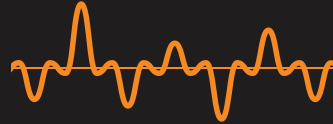
# Environmental & Planning Experts

Our environmental consultants work closely alongside our planners, engineers and economists to integrate environmental considerations into all stages of the design and development process.

## OUR IN-HOUSE SERVICES



Air Quality & Odour  
Management



Acoustics



Archaeology &  
Cultural Heritage



Biodiversity



Climate Change  
Assessment and  
Management



Construction  
Environmental  
Management Plans



Flood Risk  
and Drainage



Health Impact  
Assessment



Landscape and  
Visual Impact



Ground &  
Contamination  
Assessment



Socio Economic  
Appraisal



Construction &  
Operational Waste  
Management



Transport



GIS & Environmental  
Analytics

# The Core Waste Planning & Permitting Team



## **FRANCIS CROZIER** Waste Infrastructure Delivery

Francis is a Chartered Waste Manager with extensive experience in the Waste and Resources Sector both within the UK and internationally. He has led projects in Waste Contract Procurement & Waste Infrastructure development including EfWs (Portsmouth, Shrewsbury) MRFs (Guernsey, WLWA), WTSs, AD facilities, IVC facilities, HWRCs and landfill development. He has been involved in business support, market research, due diligence, development of integrated waste management facilities, planning applications, EIAs, Environmental Permits and Waste Management Licence applications.

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## **NATALIE MALETRAS** Waste & Infrastructure Planning

Natalie leads Stantec's Waste Practice. As a Chartered Waste Manager she has over 20 years experience of working within and advising the waste management industry. Working within both the Town & Country Planning and National Infrastructure consenting regimes, Natalie has successfully managed the planning and permitting (including EIA) of a wide range of waste infrastructure including Energy from Waste, MRF, Transfer Station and HWRC development.

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## **PETER DUNCAN** Environmental Permitting

Peter leads a team responsible for the delivery of a series of Environmental Permit applications. Prior to joining Stantec Peter was a regulator responsible for the determination of environmental permits and consultee to the EA for the determination of their related permit applications. Past projects include, EP applications for Thames Water CHP replacement scheme, permitting advice to Biffa for a 120,000tpa AD facility. Peter is currently providing EfW permitting advice to Tees Valley Council.

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## **CHRIS LEACH** Environmental Permitting & EIA

Chris has project-managed multidisciplinary teams in the environmental consultancy sector and successfully secured permits and consents for a variety of complex development schemes across the UK and overseas. His permitting experience includes managing both Part A and B permits, standard permits and bespoke permits for gas, biomass and EfW plant. He is familiar with all key permitting inputs including EMS, Site Condition Report and BAT assessment. He has particular experience of taking planning inputs and making them suitable for permit applications.

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## **PHIL BRANCHFLOWER** Air Quality & Odour

Phil leads Stantec's Air Quality Team and has a wide experience in undertaking air quality assessments to inform EIAs, permit applications and investigation of design/compliance issues for a wide range of waste related activities, including Energy from Waste. Phil has appeared as Expert Witness. Key projects include: Runcorn EfW - s.73 application; Trident Park EfW - successful planning and EP applications including appropriate assessment; Singleton Birch gasification facility, Clay Cross waste wood gasification facility, Teesside EfW facility – Lines 3, 4 & 5, input to planning applications and Permit variations.

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## **MATTHEW BARLOW** Acoustics

Matt is the Technical Lead of the Acoustic Team. He has undertaken noise and vibration impact assessments, and provided Expert Witness support, for a wide range of waste treatment facilities to assist with planning and Environmental Permit (EP) applications, including Riverside Energy Park (EfW &AD), Charlton Lane Eco Park (Gasification) and Redbridge Recycling Transfer Station.

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## SELECTED EXPERIENCE - ENERGY & RESOURCES



### EPCm & Technical Designer – Avonmouth Resource Recovery Centre

Client: Viridor

Viridor is developing an 80,000 tpa capacity plastics recycling plant, processing plastics from bottles and pots, tubs and trays (PTT). The plant is due to come online in 2021, it will be built adjacent to the Avonmouth energy from waste plant which is under construction at the site near Bristol.

In total it is expected that the plant will produce around 63,000 tonnes of recycled material per annum. Products will include rPET, rHDPE and rPP in flake and pellet form. Stantec's role included; EPCm for the project, Technical and commercial development of packages, Principal Design (Duty under CDM 2015), Design integration and management of interfaces, Development of programme, and Ongoing provision of design and engineering support including design reviews/HAZOPS.

### DCO Planning & Environmental Impact Assessment (EIA) for Riverside Energy Park

Client: Cory Riverside Energy

Since 2017 we have acted as lead planning and environmental advisor to Cory Riverside Energy, supporting them in seeking consent for this major piece of infrastructure. The principal elements of REP comprise an Energy from Waste & Anaerobic Digestion facility and an associated Electrical Connection. Our services included project management, planning, consultation, EIA, waste management and technical support across a variety of disciplines. The project was granted consent in April 2020.

*"the professionalism, hard work, dedication and effort from the whole of the Stantec team for assisting and ensuring that our REP application has been submitted to a standard we can all be proud of. From a concept idea 18 months ago to a fully blown DCO application in c.12 months is truly remarkable, made possible with the guidance and experience of the Stantec team."*

CORY RIVERSIDE ENERGY Strategic Infrastructure Director thanked the team on submission of the application for Riverside Energy Park

## SELECTED EXPERIENCE - ENERGY & RESOURCES



### Owner's Engineer / Designer - Dunbar Energy Recovery Facility

Client: Viridor

Dunbar ERF comprises a two-stream plant processing up to 300,000 tpa of waste and the capacity to generate up to 30MWe, including provision for adding a heat export facility up to 17 MW. Stantec's roles included: review of programme & monthly reporting; support through mobilisation and construction for ancillary projects; ongoing provision of design and engineering support including design reviews/HAZOPS; construction and commissioning management services; design of ancillary works and Principal Designer (Duty under CDM 2015).

### Environmental Permitting Advice & Owner's Engineer Support – Tees Valley Energy from Waste Plant

Client: Hartlepool Council

Stantec is providing owner's engineering services to Hartlepool Council for the Tees Valley Energy from Waste Plant. The proposed facility consists of an EfW operation which will recover up to 450,000 tonnes of municipal solid waste (MSW) per annum, supporting the drive to a more sustainable waste management service across the Tees Valley area.

As part of our role we are supporting the Council through the tender procurement process to select a suitable EPC contractor. We are also providing Environmental Permitting advice and support to prepare the Environmental Permit application. Support also includes a review of planning and environmental documents.



## SELECTED EXPERIENCE - ENERGY & RESOURCES



### Environmental Permitting Support – Runcorn Energy from Waste

Client: Keppel Seghers

Stantec was appointed by Keppel Seghers to provide planning, permitting, detailed civil and structural design services for a major Energy-from-Waste combined heat and power plant in Runcorn, Cheshire, UK.

Stantec's Permitting Team supported the Keppel Seghers design team by reviewing the permit application and the conditions of the draft Environmental Permit against the proposed outline design. They continued their support by providing guidance on indicative Best Available Techniques (BAT) requirements to the design team, and liaising with the Regulator to clarify significant changes to the original design, to ensure the final design complied with the requirements of the environmental permit sector guidance and the conditions within the Environmental Permit.

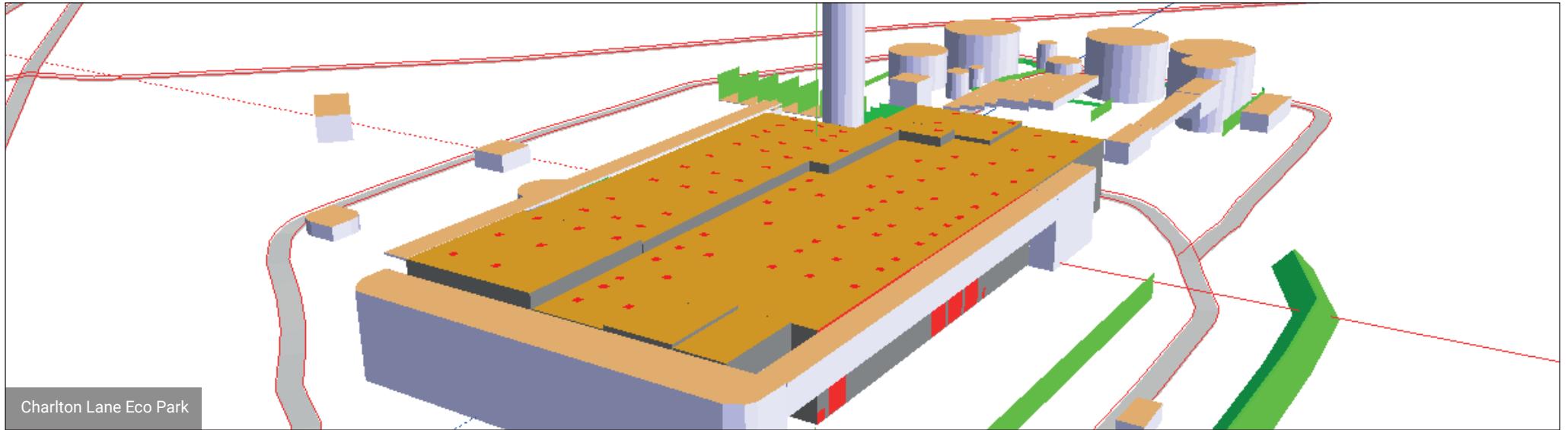
### Environmental Permit Compliance – Review of EMS & Noise Attenuation Assessment

Client: Biffa

Stantec provided a variety of services relating to the Environmental Permit of Biffa's Anaerobic Digestion facility in Cannock. We were commissioned to complete a noise attenuation assessment in order to determine appropriate attenuation requirements for the assets as part of an improvement condition of their current Environmental Permit.

Stantec also undertook a review of the Environmental Management System for the site and provided a detailed report to demonstrate its compliance with the site's Environmental Permit.

## SELECTED EXPERIENCE - ENERGY & RESOURCES



### Environmental Permitting – Acoustic Services for Charlton Lane Eco Park

Client: M&W

Charlton Lane Eco Park in Shepperton is an innovative new development of facilities to treat residual waste from households in northern Surrey in a sustainable way, together with food waste from homes around the county and a small amount of waste from local businesses. The Eco Park comprises a gasification facility with pre-treatment, an anaerobic digestion facility and a recyclables bulking facility.

Stantec provided acoustic consultancy support and prepared the noise permit application for submission to the Environment Agency. This required a detailed acoustic model of the site to be created including all major sources of noise. Careful liaison and discussion was required with various stakeholders and suppliers in order to determine source sound data for the project.

### Environmental & Geotechnical Services - Rookery Energy Park

Client: Covanta and O&H

For over a decade, Stantec has been supporting our clients on the restoration and development of the Rookery Energy Park and its transformation from a 90-hectare former brick pit into a resource recovery facility (RRF) and home to an energy-from-waste (EfW) plant.

To help the site become an RRF, Stantec provided support in various ways—planning, project management, and environmental impact assessment coordination as well as acoustic, ecology, and flooding surveys, civil and structural engineering, and stakeholder engagement for the low-level restoration scheme (LLRS) project. We also advised on the construction environmental management plan.

## SELECTED EXPERIENCE - ENERGY & RESOURCES



### Heat & Power Plan

Client: Viridor

Stantec was appointed by Viridor to update the Heat and Power Plan (H&PP) report for the Dunbar Energy Recovery Facility (ERF), located in Dunbar, Scotland. The H&PP aimed to identify and estimate local heat demands, and demonstrate compliance with energy recovery targets provided in Scottish Environmental Protection Agency's (SEPA) Thermal Treatment of Waste Guidelines (TTWG).

### Planning for a replacement Energy from Waste Plant

Client: Stoke on Trent City Council

Stoke on Trent City Council is looking to replace its old Energy from Waste Plant with a new, more efficient facility. Stantec is acting as technical advisors to the authority as they embark on this process. We are providing strategic advice in relation to the 'planning and permitting strategy' for the project, as well as support in relation to site identification & review, heat offtake, and discrete environmental services, for example Ecology.

### Istanbul Energy from Waste

Client: Istanbul Metropolitan Municipality

Europe's largest energy-from-waste plant for municipal solid waste is to be built in Istanbul. The turnkey contract, together with one-year operation has been awarded to the Swiss company Hitachi Zosen Inova together with its Turkish partner Makyol. The plant will process 1 million tonnes of waste per annum generating around 70 MW of electricity.

Stantec's role was to ensure the design develops in accordance with international and national standards and meets legislative regulations and the terms of the contract, as well as overseeing all designs, studies, reports, projects, and calculations prepared by the contractor and report progress to IMM through a number of progress reports which provide progress, comments and recommendations prior to construction starting on site.

Stantec's role has been extended to review any design changes through the construction phase which started in 2019.

## GET IN TOUCH

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Design with community in mind

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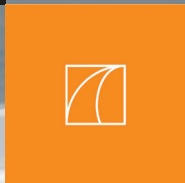
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