

## HUMBER GATE WASTE TREATMENT FACILITY

MAXIMISING USE OF RENEWABLE RESOURCES FOR A CIRCULAR ECONOMY  
CRITICAL & BEST IN CLASS WASTE INFRASTRUCTURE  
GENERATING ECONOMIC GROWTH AND JOBS  
STRENGTHENING COMMUNITIES

Humber Resources Group (HRG) is delighted to provide a key summary of the Humber Gate Waste Treatment Facility to the NELC Planning Committee. The facility will become the Humber region's home for industrial hazardous waste and the most advanced facility of its kind in the UK.



3D Visual of Developed Site – copyright HRG

With a design capacity of 20MW thermal input and using tried and tested technology, the facility will treat approximately 25,000 tonnes per annum of industrial hazardous waste. It is designed to treat waste arisings from industrial sectors of today and tomorrow, including wastes such as paints, resins, adhesives and solvents, from sectors such as manufacturing, pharmaceutical, healthcare, defence, energy (including renewable) and general industry. These every day industrial wastes are classified as hazardous waste by the Environment Agency and require treatment that will be provided by the Humber Gate Waste Treatment Facility.

The Humber region has no infrastructure and no long-term resilience for the treatment of industrial hazardous waste as proposed by HRG. Currently, such wastes travel across the UK or are exported to treatment facilities across Europe and Scandinavia. This facility will provide reassurance to regional industry, that infrastructure capable of treating such waste to the very highest environmental standards, will be here for the present and next generation.



# HRG

HRG has ensured the facility embraces a philosophy of 'best in class' across all areas of the development, ensuring the facility will truly deliver on its objective of setting a benchmark for environmentally sustainable treatment of industrial hazardous waste in the UK.

HRG has structured the facility around six pillars:

## 1. Resource Maximisation:

### *Water*

- Over 50%<sup>1</sup> of the water required for waste processing will be self-delivered from the site's unique water capture and processing design.
- Water will be harvested from roof water, road water run-off and water from general hard standing areas through our onsite treatment plant<sup>2</sup>.
- Lagoon storage of all captured water will be reused on-demand.

### *Renewable Energy*

- By-products of waste treatment will be harnessed and utilised:
  - Renewable electricity generation from onsite turbine, and/or
  - Renewable steam generation for export to local energy providers/user(s)
- Solar generation onsite.

## 2. Environment

- Biodiversity led and complies with mandatory Biodiversity Net Gain under the 2021 Environment Act.
- Ecologically led and mitigation aligned with all sensitive ecological receptors.
- HRG estimates a carbon footprint reduction in:
  - Transportation by over 45% for waste that may otherwise be treated outside of the UK.
  - Steam generation by up to 10% v generation by fossil fuels.

## 3. Economic Growth & Jobs

- Capital investment of over £50m into the local region and contractor supply chain.
- Allowing industrial businesses (accounting for thousands of jobs and taxable income) to plan for long term growth knowing their waste needs are supported for a generation; the economic multiplier of this is hugely significant.
- Generating Business Rates revenue.
- Creating approximately 40 jobs in a region that has higher economic inactivity and percentage of households that are workless, than the national average.
- Creating jobs with an approximately 8% higher average salary than that of the current local average salary.
- Creating jobs aligned to the skillset of the region (operational - plant and machinery)
- By reducing waste exports, generating more taxable revenue and reshoring capital into the UK economy.

<sup>1</sup> Subject average rainfall for region

<sup>2</sup> In accordance with BAT 32 and 33



# HRG

## 4. Critical Waste Infrastructure for Region & UK

- NELC Local Plan identifies >70,000 tonnes per annum of hazardous waste to be managed. NELC together as part of the Humber region generates approximately 60,000 tonnes of industrial hazardous waste suitable for the HRG facility.
- No facility exists in the region that provides the Humber Gate treatment process, and many other similar UK facilities are inefficient and aging.
- Provides much needed contingency and increased resilience for regional and national industrial hazardous waste, a vulnerability exposed by events such as the COVID-19 pandemic.
- UK faces a generational challenge to treat industrial hazardous wastes that continue to decrease recycling rates and/or would otherwise be landfilled and pose a risk to the environment.
- The Environment Agency (EA) has stated that high temperature thermal treatment is critical to managing future industrial hazardous waste streams of the UK.

## 5. Delivering on the Circular Economy with the Highest Industry Standards

- The facility will use high temperature thermal treatment, a Best Available Technique (BAT) for heterogenous industrial hazardous waste arisings, with bespoke feeder systems.
- Most advanced waste treatment plant in the UK, using the very latest tried and tested technology for emissions control<sup>3</sup>.
- Custom built storage and associated infrastructure designed to the highest standard and in-line with best practice<sup>4</sup>.
- Carbon Capture Ready, with land set aside for infrastructure installation.
- Allowing transition away from aging UK infrastructure which is both inefficient and non-energy generating.
- Cleaning and reuse or recycling of waste packaging through onsite processing.

## 6. Aligned with Council and UK Government Policy

### *Delivers on the North East Lincolnshire Local Plan:*

- **Planning Use:** The facility is wholly aligned to Council planning policy. Future requirements for waste facilities are directed under Policy 47 in the Local Plan. HRG's facility is located on an allocated site at ELR015 a&b Great Coates Business Park to where waste development is directed; the site also falls within an Enterprise Zone that the Council has high hopes for major industrial development.
- **Stronger Economy:** More jobs, higher pay and supporting regional industrial growth for the future.
- **Stronger Communities:** Strengthening communities through new jobs and skills, supporting industrial and business growth, increasing working activity and developing more purposeful households.
- **Greener Future:** Infrastructure with environmental best practice and resource maximisation at its heart.
- **Effective and Engaging Council:** Working together with the Council and local stakeholders to develop benefits for all corners of the region.

<sup>3</sup> Compliant with the latest international standards for EU BAT Conclusions and BAT Associated Emission Levels

<sup>4</sup> In accordance with HSG and EA guidance



# HRG

*Delivers on Government requirements as of 2026:*

- Provides greater security of supply, self-reliance and creates the most environmentally efficient facility of its kind in the UK.
- Provides treatment capabilities that boost recycling rates and reduces landfill.
- Produces renewable energy that can assist to decarbonise other industrial sectors.
- The facility is Carbon Capture Ready to support the Government's Clean Energy Superpower Mission.

HRG looks forward to working with all stakeholders to create industrial hazardous waste infrastructure that aligns with NELC's Local Plan and UK Government plans. Guided by HRC's core pillars, the development will build a platform for generational regional growth and stronger communities - providing critical and responsible environmental stewardship, resilience and confidence to industry, and skilled, well-paid jobs.

HRG would like to thank the NELC Planning Committee for the consideration of this application and hopes it will be successful in receiving Committee support.

ENDS.

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## **About Applicant**

### HRG – Humber Resources Group

HRG is part of the GRG waste management group, a company with 30-years' experience of collecting, processing and managing of all forms of solid and liquid waste, working with Government, industry, commerce and the general public; the group today employs over 400 people.

GRG has a nationwide presence across the UK. It has infrastructure (6x waste facilities) and employees who have expertise and long-term experience in the management of industrial hazardous waste, including operating facilities such as our proposed Humber Gate Waste Treatment Facility.

HRG is the newly established regional operating company by GRG in North East Lincolnshire and the wider Humber region. The company intends to develop and create waste services, infrastructure and jobs, over the long term.

## **Planning Contact**

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