



**Blue Phoenix
UK**

Building a sustainable future

We give ash a new life



Our story

At Blue Phoenix Group we strongly believe there is no such thing as waste.

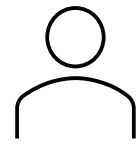
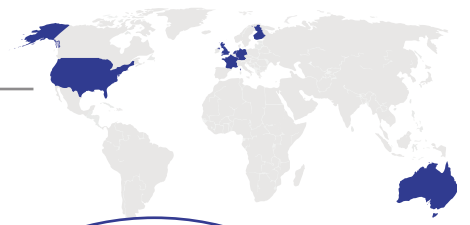
With our passionate team, we work globally to help energy-from-waste companies recycling the seemingly unrecyclable.

We are not alone on our mission and join forces where we can. We work closely together with plant operators, governmental policy makers and regulators, engineers and scientists.

Together we can contribute to a more sustainable world.

We are Blue Phoenix Group building a sustainable future.

Our profile



200 employees



1.2 Mt IBA/y



11 locations

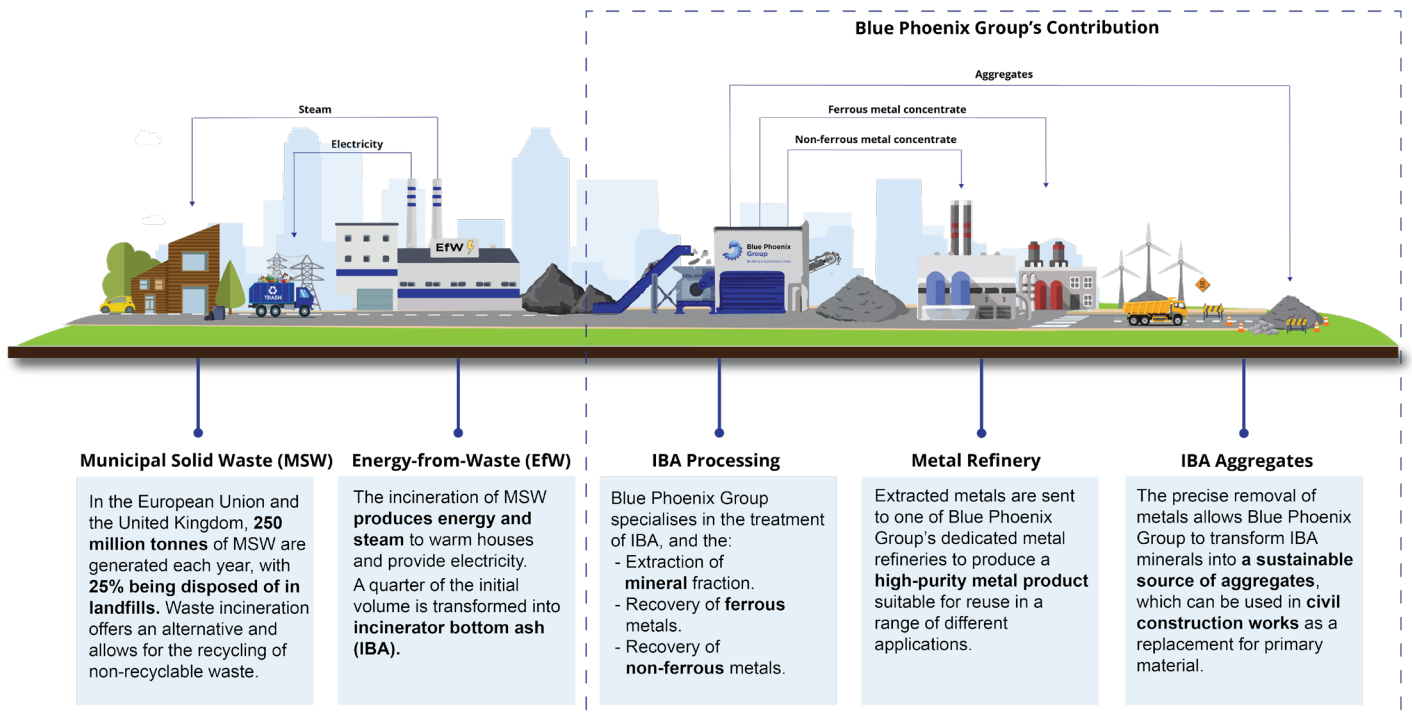


Our mission

The climate crisis requires immediate action. Even if all countries that signed the Paris Agreement commit to their target reductions for greenhouse gas (GHG) emissions, the temperature is still forecasted to increase to 2-3°C. Alongside reducing GHG emissions, we must improve the circularity of resources. Adopting a circular economy has the power to shrink global GHG emissions by 39% and cut virgin resource use by 28% (1). We contribute to this strategy by recovering resources from incinerator bottom ash (IBA), thereby diverting waste from landfills and preventing primary resource extraction. This in turn helps to improve the sustainability of the Energy-from-Waste (EFW) sector.

1. Circle Economy. The Circularity Gap Report, 2021.

Our contribution



Municipal Solid Waste (MSW)

In the European Union and the United Kingdom, **250 million tonnes** of MSW are generated each year, with **25% being disposed of in landfills**. Waste incineration offers an alternative and allows for the recycling of non-recyclable waste.

Energy-from-Waste (EFW)

The incineration of MSW **produces energy and steam** to warm houses and provide electricity. A quarter of the initial volume is transformed into **incinerator bottom ash (IBA)**.

IBA Processing

Blue Phoenix Group specialises in the treatment of IBA, and the:

- Extraction of **mineral fraction**.
- Recovery of **ferrous** metals.
- Recovery of **non-ferrous** metals.

Metal Refinery

Extracted metals are sent to one of Blue Phoenix Group's dedicated metal refineries to produce a **high-purity metal product** suitable for reuse in a range of different applications.

IBA Aggregates

The precise removal of metals allows Blue Phoenix Group to transform IBA minerals into a **sustainable source of aggregates**, which can be used in **civil construction works** as a replacement for primary material.



Our products

Blue Phoenix UK is the largest producer of Incinerator Bottom Ash Aggregates (IBAA) which has been used for over 20 years as a construction material. We offer extensive UK coverage for the supply of Specification for Highway Works and BS EN compliant Aggregates. Across the UK, Blue Phoenix supplies over 1.2m/t per annum of sustainable construction aggregates from 11 operating facilities into a range of construction applications.

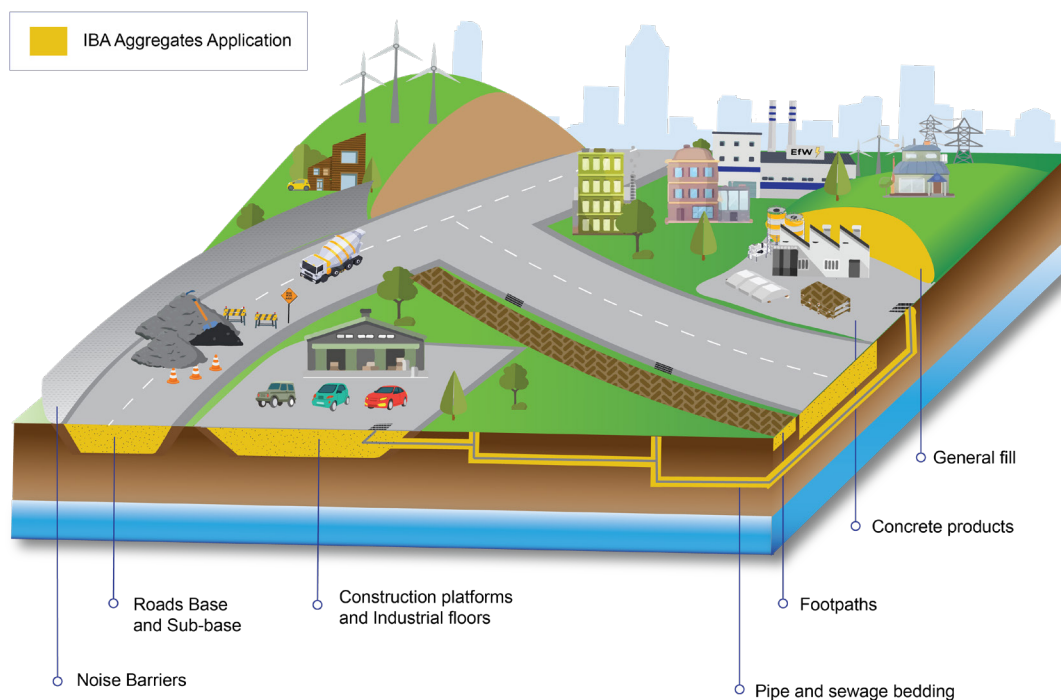
Unbound Aggregates

Type	Specification	Classification	Application
Type 1	SHW Clause 803	Subbase	Roads and Footpaths
Type 1 (Primary Blend)	SHW Clause 803	Subbase	Roads and Footpaths
Type 2	SHW Clause 804	Subbase	Roads and Footpaths
0/16	SROH	Subbase	Roads and Footpaths
Class 6F	SHW Series 600	Capping	Construction Platform
Class 6N	SHW Series 600	Fill to Structures	Backfill to Structure
Class 1A	SHW Series 600	Fill Material	General Fill
0/10	SHW Series 500	Drainage	Pipe Bedding

Bound Aggregates

Type	Classification
0/10 & 0/14	CBGMs - Cement Bound Granular Mixtures
	SBGMs - Slag Bound Granular Mixtures
	Ex Situ Cold Recycled Bound Material

Our applications



Benefits and Sustainability

Improving the circularity of resources is at the core of the Group's business strategy. We believe that a circular economy is necessary to transition to a low-carbon, sustainable future. We process IBA from EfWs to produce secondary resources locally, preventing significant GHG emissions from resource extraction, production and transport.

IBAA Advantages*

- 20% less material usage.*
- 20% less vehicle movements.*
- 20% less CO₂ emissions.*
- Cementitious and mild pozzolanic performance benefits.
- Greater resource circularity and promotion of government recycling initiatives through resource extraction from waste streams that would otherwise have been disposed of.

*When compared against the use of primary aggregates

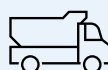
In Pictures

Compared to 10,000 tonnes of primary aggregates



2.5 km

of additional road from material saved



80

25-tonne lorries off the road



3.6

homes annual energy-use from CO₂ saved

Case Studies

Priors Hall Adoptable Roads- Corby

Material specification: SHW Clause 803 Type 1 Granite Blend

Material volume: 2,600 tonnes

Construction: Adoptable Roads

Road Construction- Cornwall

Material specification: SHW 600 Class 6N

Material volume: 1,500 tonnes

Construction: Road subbase and capping

M62 Smart Motorway Upgrade

Material specification: SHW Clause 803 Type 1

Material volume: 5,000 tonnes

Construction: Upgrade of central reservation

London Gateway Infrastructure Upgrade

Material specification: SHW 600 Class 1A

Material volume: 130,000 tonnes

Construction: Infrastructure upgrade



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