

IBA Aggregates

Resources reborn

Our story At Blue Phoenix 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.

Our Profile

200

Employees

1.5 Mt

IBA/year

10

Locations

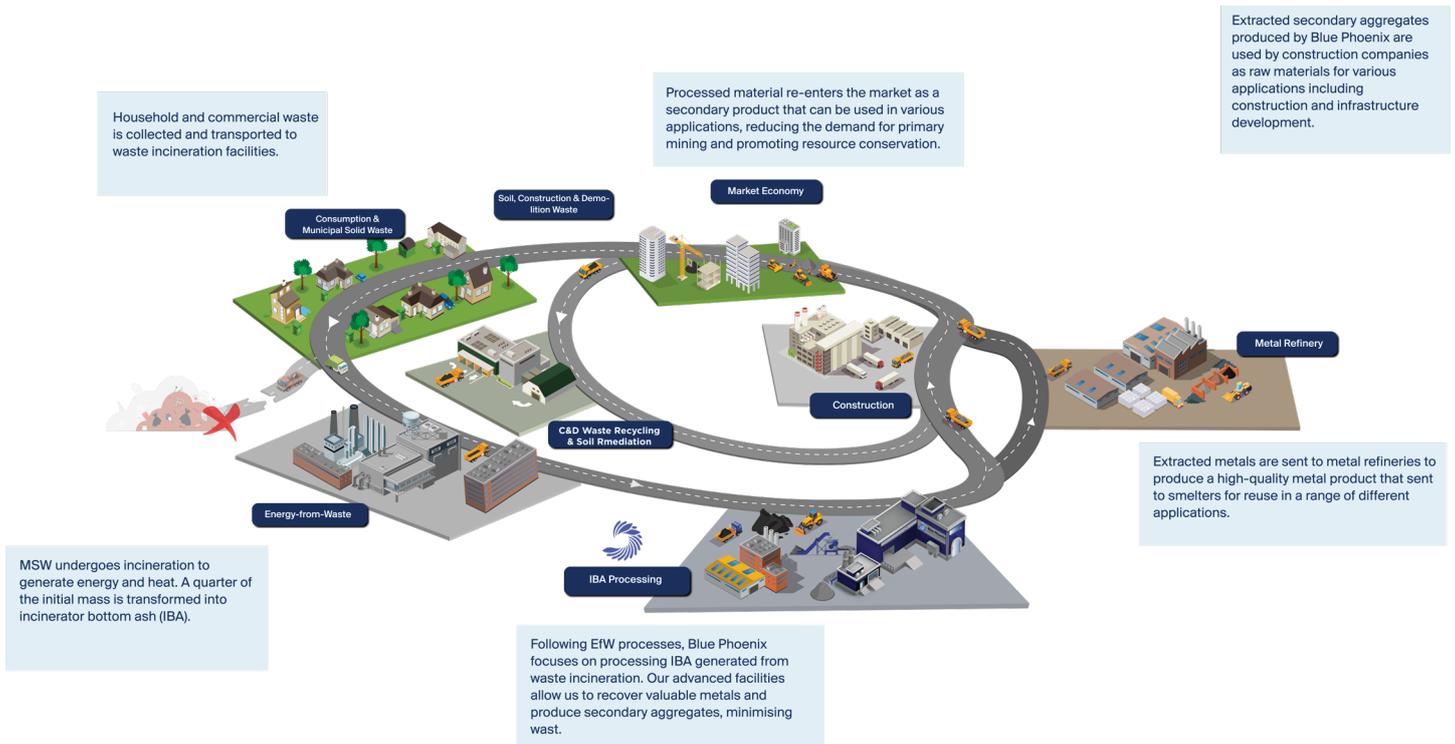
Our Mission

Development of a circular economy and diversification of landfill waste can help tackle climate impacts and improve environmental and social conditions ⁽¹⁾. Blue Phoenix processes and recovers valuable resources from incinerator bottom ash (IBA) received at the Energy from Waste (EfW) facilities. These facilities are a key UK Government strategic solution for dealing with municipal solid waste (MSW) and a more sustainable alternative to landfills. We produce secondary aggregates from IBA, that can be used in many different applications, ranging from the construction platforms for building commercial/industrial units to road/pavement construction. By adopting a circular economy model, we have the collective power to reduce the global GHG emissions by 39% and cut virgin resource use by 28% ⁽²⁾.

1. UK Circular Economy Strategy, <https://www.gov.uk/government/publications/circular-economy-strategy-summary-moj/circular-economy-strategy-summary>.

2. Circle Economy, The Circularity Gap Report, 2021. <https://www.circularity-gap.world/2022>

Our Contribution



Our Products

Blue Phoenix in The 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, in 2021, Blue Phoenix supplied over 1.2 million tonnes of sustainable construction aggregates from 10 operating facilities into a range of construction applications.

Unbound aggregates

Type	Specifications	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 1A	SHW Series 600	Fill Material	General Fill
0/10	SHW Series 500	Drainage	Pipe Bedding

Bound aggregates

Type	Specifications	Classification
0/10mm & 0/14mm	SHW Clause 822/823	CBGMs
0/10mm & 0/14mm	SHW Clause 831/835	SBGMs
0/10mm & 0/14mm	SHW Clause 947	Foamed Asphalt



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 Energy-from-Waste (EfWs) to produce aggregates in urban located sites, preventing significant GHG emissions from resource extraction, production and transport.

Sustainable building solution, that helps reducing Co2 emissions by 80%*

Preserving Natural Resources by replacing Primary Aggregates with a Low Carbon alternative

Local sourced materials, resulting in diverse environmental benefits

Cost-effective construction alternative solution*

Lower bulk density*: less tonnage needed per m3* equals less vehicle movements

Enhanced performance due to cementitious and mild pozzolanic properties

When compared to 10.000 tonnes of primary aggregates:

59

Tonnes of CO₂ saved against primary aggregates

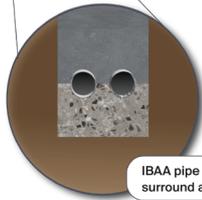
50

Homes annual energy use from CO₂ saved

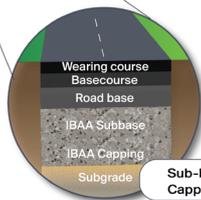
2000

Tonnes of primary resources saved

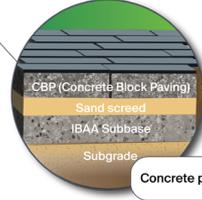
Our Applications



IBAA pipe bedding, surround and trenchfill



Sub-base Capping



Concrete products

Case Studies

Priors Hall Adoptable Roads - Corby

Material Specification:
SHW 803 Type 1 Granite Blend

Material Volume: 2.600 tonnes

Construction: Adoptable Roads

M62 Smart Motorway Upgrade

Material Specification:
SHW 803 Type 1

Material Volume: 5.000 tonnes

Construction: Upgrading of central reservation

Road construction - Cornwall

Material Specification:
SHW 600 Class 6N

Material Volume: 1.500 tonnes

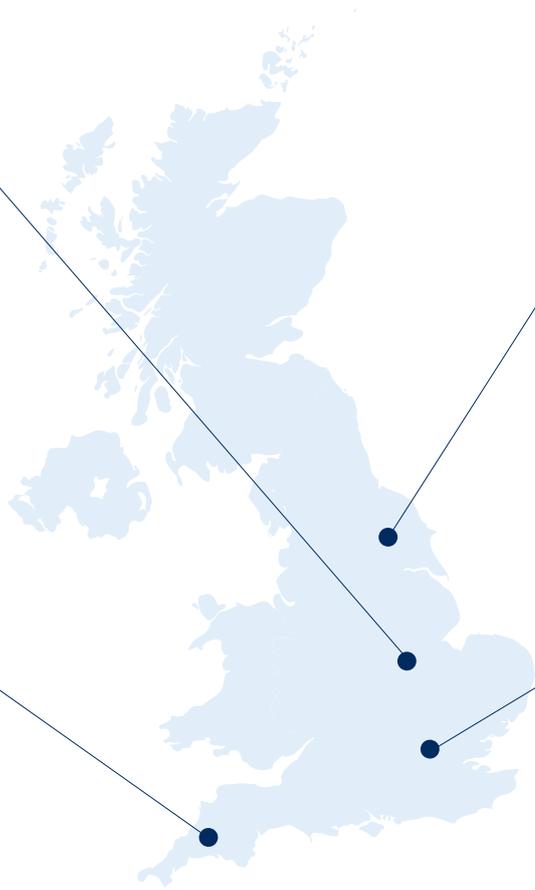
Construction: Road subbase and capping

London Gateway Infrastructure Upgrade

Material Specification:
SHW 600 Class 1A

Material Volume: 130.000 tonnes

Construction: Infrastructure upgrading



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