



Biocarbon and biocoal report

A review of the commercial status of the global
biocarbon and biocoal markets

A multi-client report, available immediately

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Biocarbon & Biocoal
August 2025

Why is this report needed?

The market for biocoal and biocarbon (torrefied, steam-treated, pyrolysed and hydrothermal carbonisation) has been showing signs of a resurrection in the past couple of years, supported by the global phase out of coal and the need for heavy industry to defossilise.

In particular the emergence of demand from heavy industry, including the metallurgical sector, is changing the outlook for the biocoal and biocarbon markets. The requirements are different to those needed to replace coal in heat and power generation, such as carbon content, energy content, chemical composition and densification form. Different technologies are being developed to serve the different end-use markets, but there is still some confusion as to who is doing what, where and when.

In the past, biocoal and biocarbon technology, often referred to as black pellets, has struggled to gain a foothold, but there are now numerous commercial-scale production plants in the pipeline. These will be key to the biocoal and biocarbon industry finally establishing itself in the wider biomass market.

This report presents an introduction to the different technology types available. It also identifies the key suppliers today and projects in the pipeline, as well as their target markets.

This report will provide the overview and introduction many companies new to the biocoal and biocarbon markets need. It will help companies identify the most suitable partners for new demand projects, as well help biocoal and biocarbon project developers understand their competitors. It also provides an overview of the key demand sectors and developments.

The report lists ~100 biocoal and biocarbon supply projects from almost 60 project developers. It also includes 16 detailed profiles of the key technology providers, 23 profiles of the most advanced supply projects and details of potential end-users making upstream investments.

Who should read this report?

This report will be essential reading for all companies considering the opportunities in the biocoal and biocarbon markets. In particular, it will help prospective users identify what supply is available, where and when.

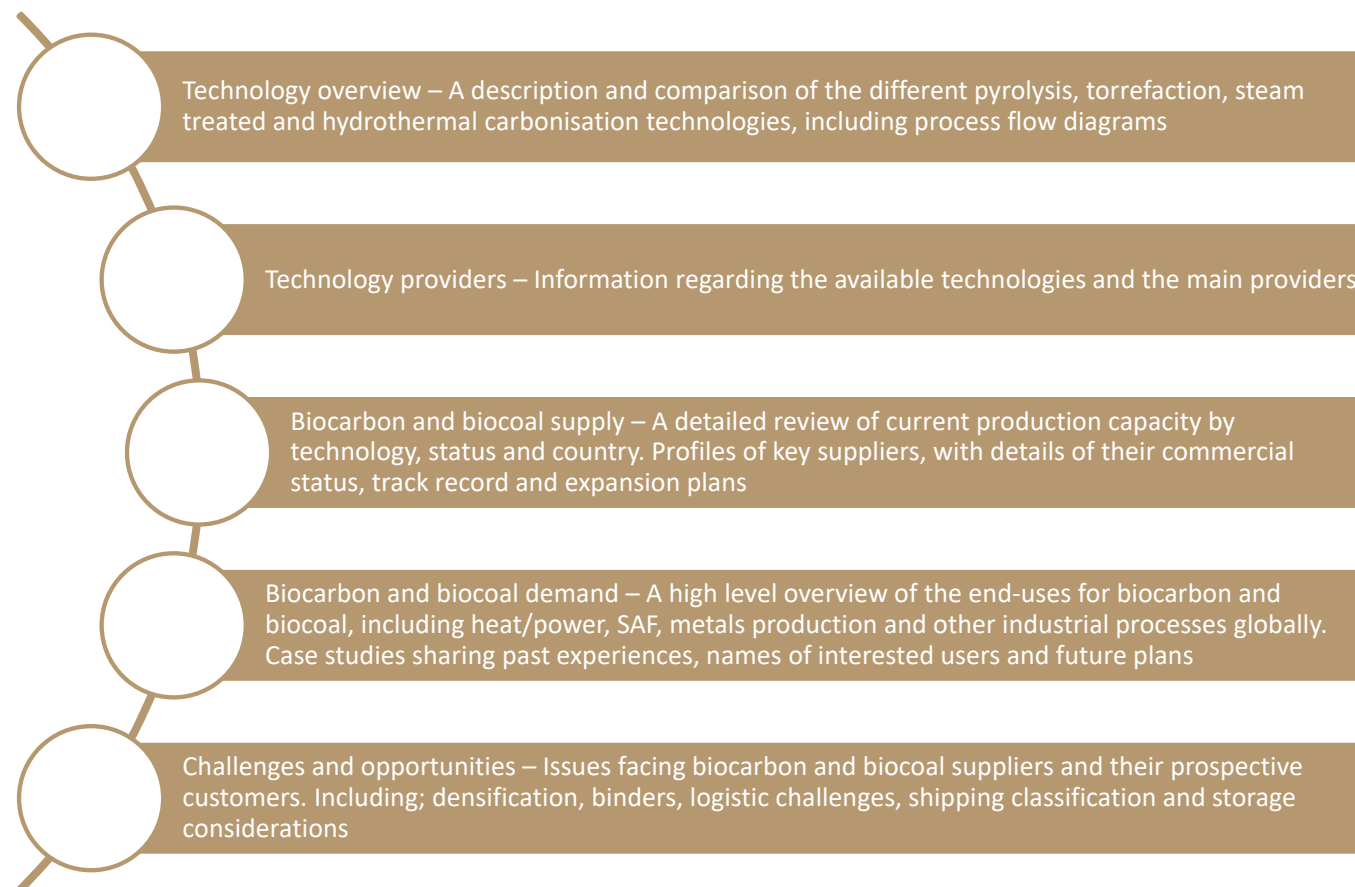
Questions answered

- How big are the biocoal and biocarbon markets currently?
- What are the key differences between torrefied, steam treated, pyrolysis and hydrothermal carbonisation technologies?
- Who are the main developers of commercial scale supply projects?
- How advanced are the existing supply projects?
- Which technologies are being used in which projects?
- Where will demand come from?

Report details

How can this report help

Report contents



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How can this report help

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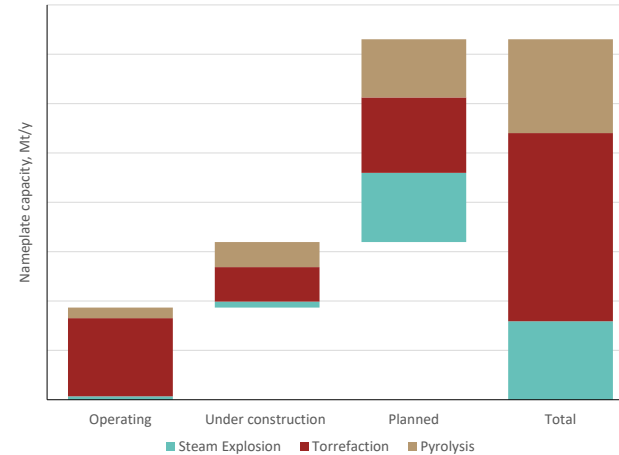
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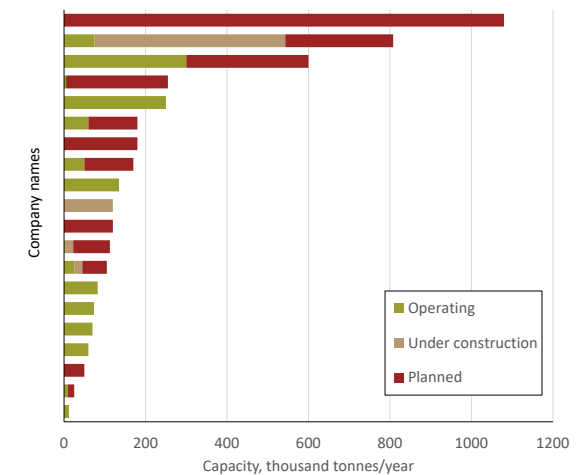
How can this report help

Extracts from the report

Existing and planned production capacity, by status and technology



Existing and planned production capacity, by company



Report includes chart and tables depicting existing and planned capacity of both biocarbon and biocoal production. Charts are redacted here to protect intellectual property. Company names and capacities are available in the full report.

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Extracts from the report

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