

We strive for a world without landfill, where waste is transformed into a resource



We care

For your business. For your brand. And for the future.

Pyrocore transforms waste into recovered energy & by-products for a decarbonised and circular economy.

We design, produce, install, and maintain modular, skid mounted, units.

Waste Transformed.

Why PyroCore?





Duty of Care

We care for your **waste** and for **you**.



Reliable

Proven **technology**. Technical **support** during lifetime & availability of a **waste performance trail unit**. Strong **financial backing**.



Local

At your site, **de-centralized** solutions with a **maintenance** program. Partnership with the **community.**

Focus

Today we master **4** different **waste streams**, this to be **the reference** for these 4



Solid to Syngas

Ensures **feedstock flexibility** as we convert into thermal energy. (Feedstock composition can vary without detrimental effect)



Why The Phoenix?



Waste Reduction

Up to 95% reduction in mass. Lower waste management costs.



Cost Savings

No more gate fees Frozen - fixed energy cost (self-sustaining)



Product Recovery

Recover byproducts for reuse. Actively contributing to a circular economy.



Carbon Capture

Reduced waste miles and energy offset. Helps fulfil Net Zero carbon commitments.



Control

Of your waste streams, ensuring its **disposal method** & **cost**.



Corporate Social Responsibility

Protect your brand. Exceed your customers' expectations and deliver on both your circularity and Net Zero commitments.



Why the Phoenix ?





ΝΝ

Modular Futureproof: extra

modules can be added in the future

Skid Mounted Is easy to transport and enables a quick assembly by a local team







Waste is reduced to a **thermally decomposed** solid char and raw syngas.



recycling, meeting the needs of a **circular economy**.

Inputs



Our carbonisation technology is inherently versatile. It transforms a wide range of problematic and non-recyclable wastes, including blends, into recovered energy and by-products.









Plastics

Clinical

GRP

Outputs Decarbonised Energy

Energy recovered is **up to 2MWth** which can be used for

O Heating **O** Drying **O** Electricity

500kg/hr system saves 1,900 TCO2e when offset against natural gas (fossil fuel)



Sarbon

Outputs Circular Recovery

- Solution Waste is reduced to char (45 90% by volume)
- Recoverable by-products include biochar, metals, glass and compounds

Contributing to a circular economy





Demonstration & Research Facility

- On conduct detailed trials of your waste, demonstrate processing similar wastes, and conduct research
- Confirm materials recovery to meet your circular economy requirements
- Validate business cases based on numerous operating parameters
- Support 3rd party detailed waste analysis
- Calculate energy generation for your specific waste
- Provide a comprehensive report on the process and specific results
- Continuous improvement in technology and operational efficiency



Case study Recycling Rejects

- Gate fee of 100€ / ton
- Gas cost of 30€ / MWth
- Yearly throughput up to 3780 kg/ year
- 2 MW thermal energy production
- Up to 90% mass reduction of the recycling rejects
- Char is captured (carbon) in long life material (construction)
- PyroCore gives you:
 - a net fixed cost (incl OPEX excl. subventions) of your recycling rejects of ~ 33 € / ton
 - De-carbonized energy
 - **O** Circular Solution
 - Control & flexibility of your waste
 - Reduction in CO2 emission : on-site natural gas usage & eliminate CO2 emission transport related



Case study DASRI

- Gate fee of 350€ / ton
- Gas cost of 30€ / MWth
- Yearly throughput up to **3780 kg/ year**
- 2 MW thermal energy production
- Up to 90% mass reduction of the recycling rejects
- Char is used to upgrade the CSR or captured (carbon) in long life material (construction)
- PyroCore gives you:
 - a net fixed cost (incl OPEX excl. subventions) of your DASRI
 - Of \sim **78 € / ton** (when heat is used on-site)
 - ◎ Of $\sim 197 \in /$ ton (when no heat is used on site)
 - De-carbonized energy
 - O Control & flexibility of your waste
 - Oricular Solution
 - Reduction in CO2 emission : on-site natural gas usage & eliminate CO2 emission transport related



Case study GRP

- Gate fee of 100 € / ton
- Gas cost of 30€ / MWth
- Yearly throughput up to **3780 kg/ year**
- 0.5 MW thermal energy production
- Up to 45 % mass reduction of the recycling rejects
- Glass Fibre is recovered in the char to re-use, value taken into account 300€ / ton
- PyroCore gives you:
 - O a net fixed cost (incl OPEX excl. subventions) of your GRP of ~ 20 € / ton (when heat is used on-site)
 - De-carbonized energy
 - O Control & flexibility of your waste
 - O Circular Solution = > re-use of the re-covered glass fiber
 - Reduction in CO2 emission : on-site natural gas usage & eliminate CO2 emission transport related



Waste Transformed

Energy

Decarbonised energy recovery for your business, organisation, or community

By-Product

The Phoenix process liberates by-products for recovery and re-use

To Resource

Delivering cost savings and improving your brand values

PyroCore's highly experienced team will support you throughout your journey.

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