

Introducing

Arigna Fuels

Biochar

- We are an Irish based solid fuel manufacturer with over 30 years' experience.
- We now manufacture biochar from biomass residues.
- Our production capacity is up to 50,000 tonnes p.a. of biochar at a carbon content of 60-85%.

Uses of Biochar:

- ✓ As a raw material for our renewable solid fuel Harvest Flame
- ✓ As a cornerstone of an organic compost
- ✓ As a 'green' coal
- ✓ For soil remediation
- ✓ For carbon sequestration
- ✓ Qualifies for carbon credits
- ✓ As an additive to anaerobic digesters to increase yields and output
- ✓ As a growing medium



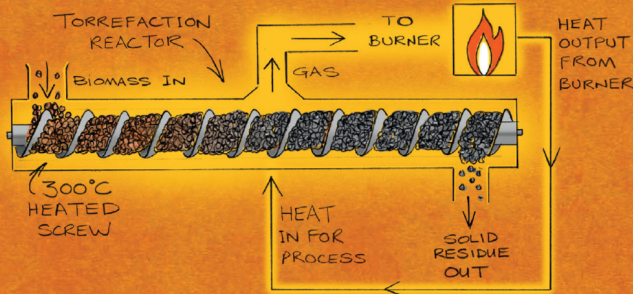
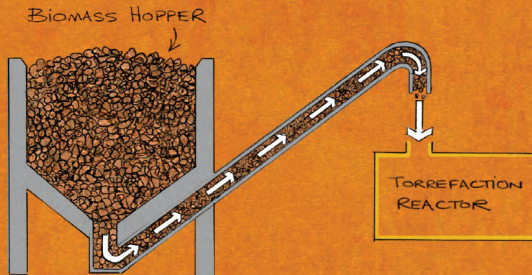
Arigna Fuels
www.arignafuels.ie

How do we do it?

We have developed our own process based on torrefaction – roasting biomass without air.

The Process #1

We take raw biomass and heat it to 300 degrees to dry the material, kick-starting a thermal reaction to break down the hemicellulose contained within the plant structure.



The Process #2

This in turn produces an energy rich gas which is burned to sustain the reaction with no additional heat input, known as an autothermal reaction.

The Process #3

The product is then cooled, and packaged as required.



TORREFIED MATERIAL



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