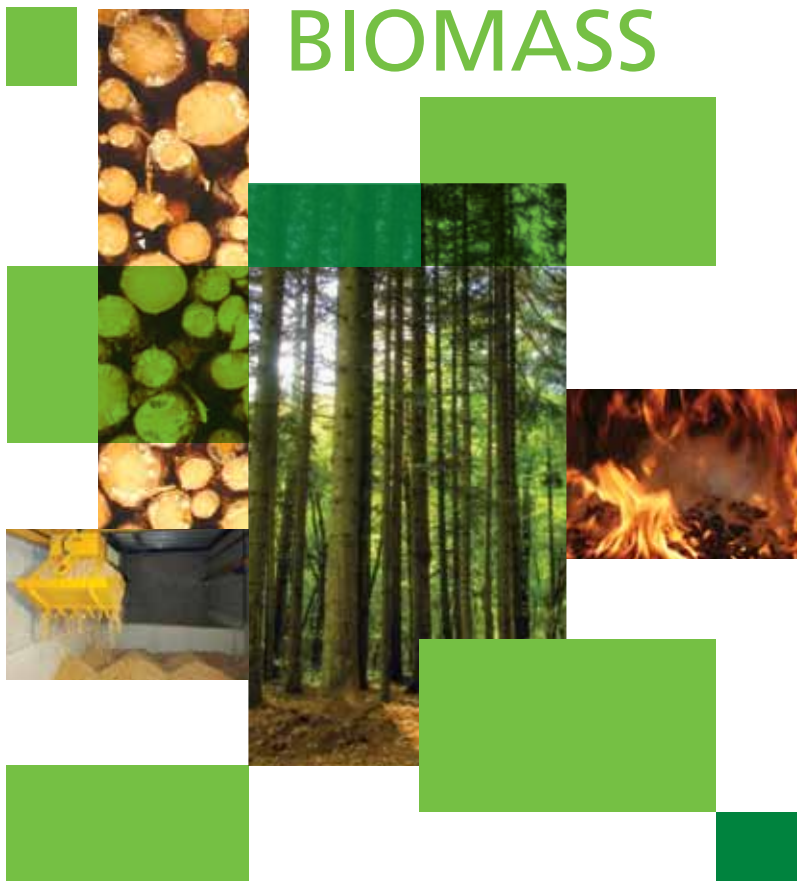
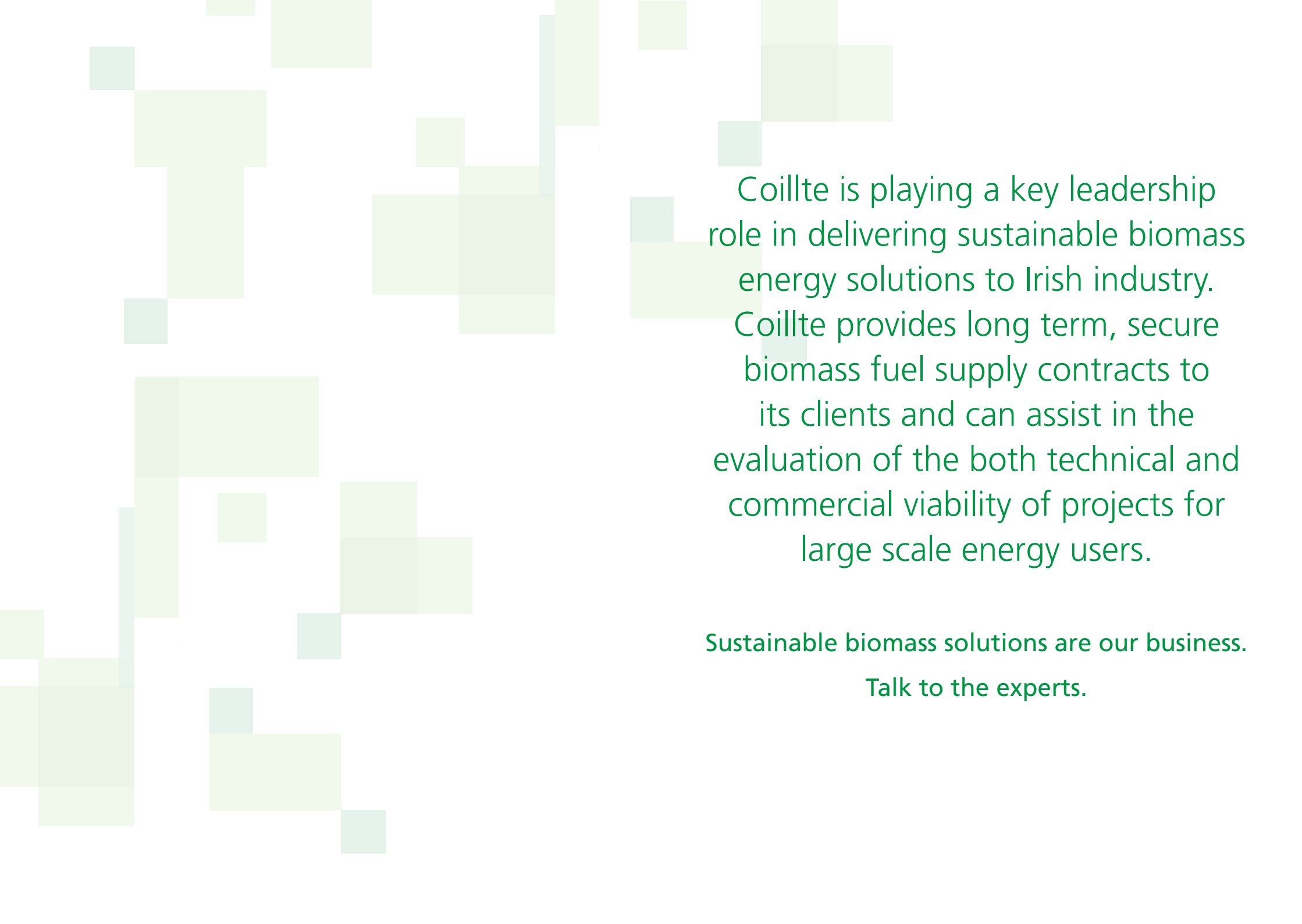


# BIOMASS



**Delivering Sustainable  
Energy Solutions**



Coillte is playing a key leadership role in delivering sustainable biomass energy solutions to Irish industry. Coillte provides long term, secure biomass fuel supply contracts to its clients and can assist in the evaluation of the both technical and commercial viability of projects for large scale energy users.

Sustainable biomass solutions are our business.  
Talk to the experts.

## Why Biomass?

The Bio-energy Sector reduces energy costs for Irish industry allowing them to displace expensive fossil fuel and maintain competitiveness in a global marketplace. Reducing Ireland's reliance on fossil fuel imports, reducing our greenhouse gas emissions and improving domestic fuel security are key pillars for developing a new green economy. Ireland's dependence on imported fossil fuel has left energy consumers vulnerable in terms of energy security, energy price volatility and exposure to carbon taxes.

Our biomass resource plays an important role in contributing to a reduction in greenhouse

gas emissions for Ireland. Forestry acts as a sink for the removal of CO<sub>2</sub> from the atmosphere. Biomass can substitute for fossil fuels in a biomass boiler to produce process heat and steam for industry, or can produce electrical power by utilizing Combined Heat and Power (CHP) technologies.

Switching to competitive biomass fuel, supplied from our local indigenous forestry resource, not only reduces the cost base and improves the competitiveness of Irish companies but also provides many environmental benefits and supports local jobs in the supply chain.

## Addressing the Key Pillars of your Sustainability Strategy



### Reduce Energy Costs

- Competitive terms
- Long term contract
- Predictable and transparent price review mechanism

### Reduce GHG Emissions

- Low carbon fuel
- Underpinned by largest indigenous biomass owner

### Promote Sustainability

- Locally sourced from sustainable natural resources
- Supporting local jobs in the supply chain

## Coillte Biomass Fuel Supply – The Key Benefits

1



**Guaranteed security** of supply for all your biomass requirements

2



**Competitive pricing**, typically 50% cheaper than heavy fuel oil

3



**Fixed price for an agreed period** with transparent price review mechanism

4



**Long term supply contracts** available up to 5 years

5



**Full management** of the entire fuel supply chain

6



**Fuel quality testing** to I.S. CEN/TS 14961 : 2005



## Coillte Regional Biomass Supply Hubs

Coillte operate a number of regional biomass fuel supply hubs throughout the country. These depots stockpile and dry thousands of tonnes of biomass annually for our clients. Coillte routinely establish new depots as new client contracts arise and demand for wood chip increases.

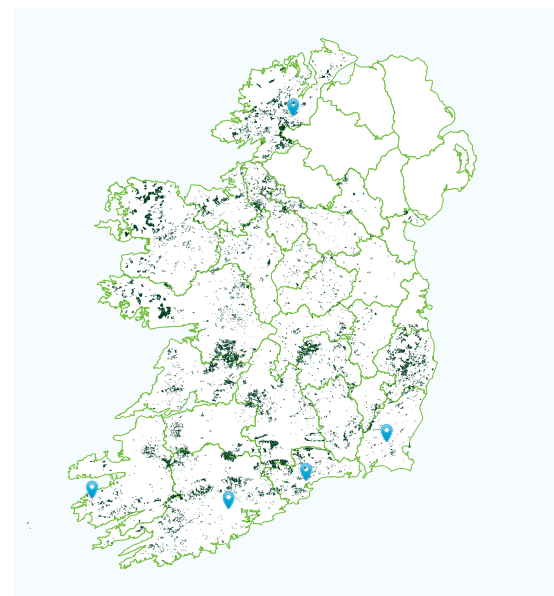
Through these regional hubs, wood chip is supplied to clients in the pharmaceutical, textile, industrial and hotel sectors. Each fuel supply hub comprises of a large secure log storage yard with high quality wood chip storage sheds, weighbridge and quality testing facilities. Each depot has high-tech wood chipping equipment for processing chip into various grades and a range of delivery vehicles to suit most fuel store types.

Coillte is committed to a strategy that matches our clients renewable energy

requirements with local biomass supply and all feed stock is sourced locally from both Coillte and private forestry resources. This reduces the transport and logistics required and ensures full chain of custody from forest to boiler fuel store.

Logs are sourced and delivered to our fuel supply hubs on a pre-planned basis several months in advance. The logs are systematically stacked for open air drying to the required moisture contents specific to each client's boiler requirements.

The key to ensuring quality wood chip at the correct moisture content is to manage stock rotation and replenishment and to ensure suitable air flow through the stacks. Stacks are also covered during the winter months. Each hub stores several thousand tonnes of stock.



### Coillte biomass fuel processing Hubs:

- Caherciveen, Co. Kerry
- Ballybofey, Co. Donegal
- Clonroche, Co. Wexford
- Ballynoe, Co. Cork
- Dungarvan, Co. Waterford

■ Coillte Forests  
📍 Coillte Supply Hubs

## Quality Fuel to Approved Standards

All wood chip is produced strictly in accordance with quality specifications set out in I.S. CEN/TS 14961 : 2005. Moisture content samples are taken in pre-approved aluminium sampling trays for testing by the oven dry method and/or using pre-approved and calibrated moisture testing devices. Particle size is controlled during the chipping process by the provision of the correct size screens on the chipper feed. Regular testing is undertaken to assess the percentage of fines.



## Flexible Delivery Solutions

Our fleet of wood chip delivery vehicles comprise of larger moving floor trailers (20 to 24T loads) to smaller tipping vehicles (8 to 16T loads) depending on the specific clients fuel handling and on-site storage infrastructure. All biomass is checked for compliance to moisture content specification, particle size and percentage fines. Each client is then invoiced per gigajoule of energy delivered.



## Supporting the Local Economy

Coillte operates its fuel supply hubs in conjunction with local contractors who provide a full operations and logistics service including chipping and haulage of wood chip. These hubs stimulate economic activity and support local employment through the entire supply chain while contributing to Ireland's national renewable energy targets.



For more information about Biomass contact:

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