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Kerry Die releases

A New Integrated Pellet System

The all-new Integrated Wood Pellet System from Kerry Die optimises the properties of the raw material in a processor/condenser unit prior to feeding them into a high-capacity press.

The press then combines high output with low energy consumption to produce premium quality wood fuel pellets.

Working together, these two patented and newly developed units are, according to the company, more efficient than any fuel pellet production line available on the market today.

During the round table discussion at Kerry Die's Integrated Wood Pellet System launch, guest speakers John Swaan and Roger Lehtonen spoke about the dynamic in the pellet market.

European demand is expected to go from its current 10 million tons per annum to 100 million tons by 2020.

The only feasible solution for meeting such increases in demand is to "go to the forest", as John Swaan explained.

In parallel, the worldwide recession is freeing-up wood fibre traditionally destined for the construction and pulp industries.

What has previously lacked in pellet production is pellet mill technologies that can efficiently and cost effectively handle virgin fibre, process hard woods and cope with higher humidity feedstock.

This is the niche Kerry Die intends to fill with their new Integrated Wood Pellet System.

History

Kerry Die Products Ltd. and its recently established sister company Kerry Biomass Technology Ltd. are headquartered in Kerry, Ireland They have a regional service centre with after sales support and a die refurbishment facility in Hyssna, Sweden.

Liam O'Connor founded Kerry Die 30 years ago and initially manufactured pellet mill equipment and dies for the animal feed business.

In the last ten years, Liam and his son Hugh have devoted themselves entirely to the wood pellet production vertical.

They realised that there is little information and understanding of the complexity of wood as a feedstock for pellets.

In 2003 Kerry Die decided to initiate a research program with two European universities one in Austria and one in Sweden.

The program undertook a chemical analysis of the specific elements in the structures of wood with objectives to analyse what might aid and/or hinder the pelleting process.

The new system

Kerry Die set itself to design a new wood pellet system. The result is The Calorific M6 Processor/ Condenser and B-Mass 800 Wood Pellet System. The system is now available in two sizes, a 6 TPH and 10 TPH.

Unique Features

The Chemical Analysis Electronic Meter measures the incoming raw material for precise properties.

These properties are then activated through the Calorific 6M Processor & Condenser and any excessive moisture is removed in the condenser.

This prepared material is then fed into the high-capacity B-Mass 800 Pellet Press.

The external rolls and die speed are programmed and automatically adjustable to insure maximum output and minimum energy consumption.

The online optical monitoring of the raw material properties combined with indirect heat and the external condensing unit for moisture removal, allow the chemical properties within the material to be brought to an ambient structure for the production of a pellet.

The outer roll configuration to the die incorporates the scientific principles of force required to implode a ring structure resulting in increasing die strength.

The pressure detection and rapid roll retraction prevents die cracking and roll and bearing damage originating from foreign objects that may have entered the feedstock.

Easy maintenance

The simplified die clamping system allows operator to easily change the die and not to be in direct contact with the die surface.

Die changes have been tested and successfully complete within one hour.

The absolute positioning and pressure detection of the rolls also ensures the rolls and die will never come into contact with each other, further preventing unnecessary wear on both elements.

Similarly, having a reduced rpm and processed raw material significantly improves key component life.

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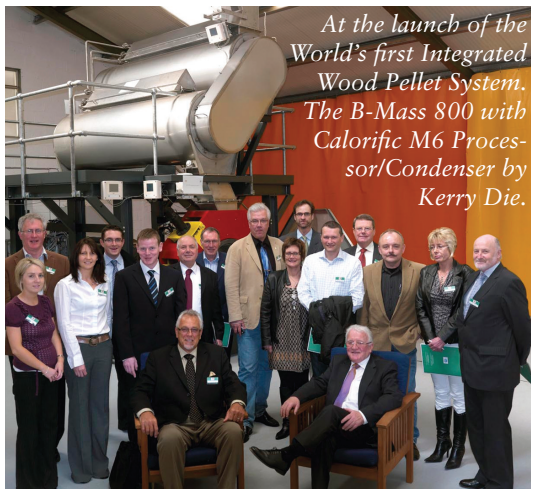

At the launch of the World's first Integrated Wood Pellet System. The B-Mass 800 with Calorific M6 Processor/Condenser by Kerry Die.

From the left: Caroline Leahy, Sean Keating, Tina Griffing, Coleman Doyle, Hugh O'Connor, Charles Mamo, John Doyle, Roger Lehtonen, James Brown, Ulla-Britt Lehtonen, Bernard Glechner, David Kidney, Mikael Nielsen, Pie Nielsen & Brendan Healy

First export deal

Plantation Energy Australia Pty Ltd, Australia's largest manufacturer and exporter of Densified Biomass Fuel (DBF) pellets, announced the signing of a three year AUD 70 million supply agreement with Belgium-based Electrabel NV, subsidiary of GDF-Suez, Europe's largest power company.

The company is backed by leading US-based global private equity firm Denham Capital, which in October 2008 announced an equity investment of up to US$80 million in the company.

The agreement between Plantation Energy and Electrabel is the first of its kind in Australia that will see Plantation Energy manufacture and export clean renewable energy in the form of DBF pellets made from non-commercial plantation forest residues. Initial exports will be shipped from Albany, Western Australia, where the first of several planned pellet manufacturing facilities is in operation.

–This agreement is an important first step as we look to expand our business model in Victoria and South Australia and increase our capability to meet growing world demand, said Jarrod Waring, Business Development Manager.

–We also believe there is great potential to supply the domestic market over time as fuel pellets become more widely understood and accepted here in Australia.

Jarrod Waring
Plantation Energy Australia Pty Ltd
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UK Market Update

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interest amongst fuels, mainly gas in the UK, to bioenergy. Companies are facing tough legislation and fear the introduction of a carbon tax on top of the penalties already in place.

– There are incentives to convert to bioenergy and in 2011 the long-awaited Renewable Heat Incentive, RHI, will be introduced, which is expected to have the same effect as the ROC system has in promoting renewable energy for electricity production.

– There are not many ways that industry can reduce carbon emissions in their processes and the simplest and cheapest alternative is to convert to bioenergy. That fact is now clearly understood.

– There are many Swedish companies that have innovative technology that can greatly assist industrial companies with their low carbon strategies and we have the privilege of collaborating with several of them.

David Jackson, Windborne International
BI38/1051

PCES, Petro Compact Ecoflame System at the plant of Cloetta Fazer in Ljungbro, Sweden as shown in Bioenergy International 32