

PRESS RELEASE

ORC technology from Dürr efficiently converts waste wood into electricity

Bietigheim-Bissingen, 16.05.2017 – Heberndorfer Leistenfabrik GmbH uses the waste wood from its wood processing activities to generate electricity and heat. Since outfitting its power plant with the latest ORC technology from Dürr Cyplan, the specialist in baseboards and accessories has managed to meet the majority of its annual electricity requirement with wood-based biomass. The Eco+Energy ORC system with output of 500 kW will pay for itself within just four years.

The sawmill and wood industry is constantly producing waste wood, no matter how the wood is processed. Whether bark, sawmill by-products, old wood, or industrial waste wood, the organic biomass can be used to generate energy – as the example of Heberndorfer Leistenfabrik (HLF) shows. Instead of having to dispose of 11,000 metric tonnes of chips each year, the company based in Wurzbach (Thuringia) puts them to use with ORC (Organic Rankine Cycle) technology. At HLF, this technology was combined with a modernized furnace system to convert various kinds of wood into heat and electricity. This means that the waste products can be used where they are produced, and where the need for the generated power also exists. It is a clean process, since the fuel is transported and stored in closed pipeline systems and bunkers.

The self-generated heat is used at HLF to heat the production halls and the administration building, while the amount of electricity generated via the ORC module covers the energy required for production and is additionally fed into the public network. By doing this, HLF reduces its electricity costs by around EUR 400,000

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Euro each year. “Electricity prices have almost doubled in recent years. Using waste wood for power was a strategic decision that will safeguard us against future cost increases and make us more energy independent”, explains Christian Horn, Managing Director of HLF.

Based on current electricity prices, the ORC module will pay for itself within around four years. This fast return for energy infrastructure is also due to the low servicing and operating costs.

Dürr Cyplan offers a lucrative full-service package based on a guaranteed service level for the ORC system. The system is fully assembled and is tested at Dürr Cyplan, which meant it only had to be connected to the heat transfer media and was ready for operation within a maximum of two weeks. Konrad Misselwitz, Technical Director at HLF, is impressed by the concept of the **Eco+Energy** ORC and the expert realization. The system combines easy and logical operation with robustness and low maintenance requirements. It is completely standalone and can be externally monitored. Apart from an annual service, it does not need any complicated maintenance like oil changes, seal replacements, or lubrication.

“The ORC systems from Dürr Cyplan are extremely compact, and are easy to integrate into existing energy systems and buildings” says Project Manager and Operations Manager Timm Greschner. This enabled the HLF furnace system to be easily extended to include the new ORC module. The high cost efficiency is further boosted by the ease of handling, the high level of automation, and the long service life of at least 15 years. This makes the system extremely economically attractive for medium and large wood processing operations.

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Figure 1: Heberndorfer Leistenfabrik converts waste products into electricity and heat energy with a high level of efficiency using an **Eco+Energy** ORC system from Dürr Cyplan.

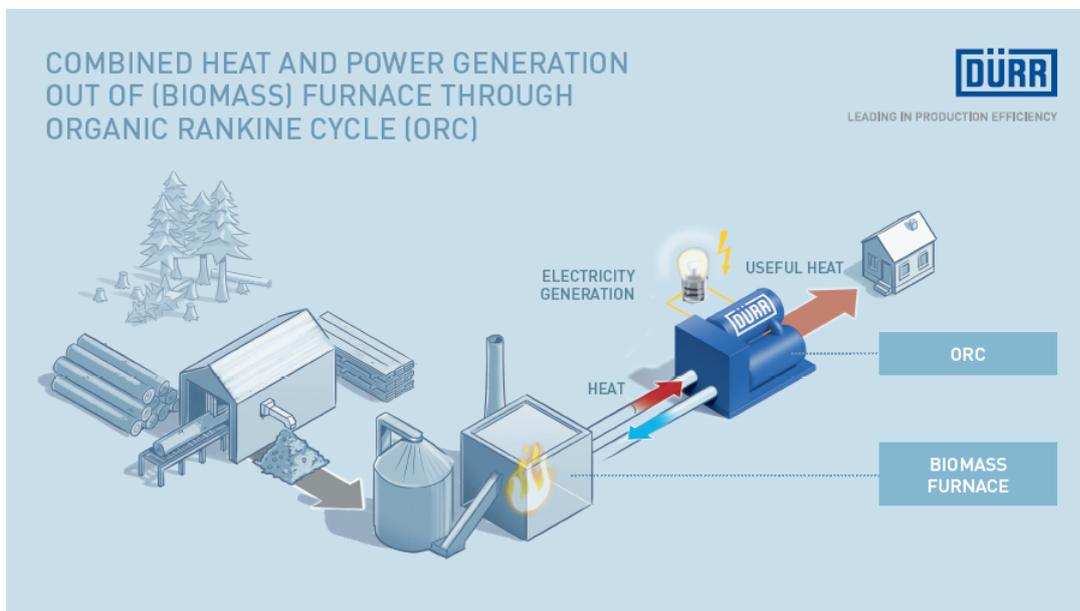


Figure 2: **Eco+Energy** ORC technology generates electricity and heat from waste products and waste heat

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The Dürr Group is one of the world's leading mechanical and plant engineering firms with outstanding automation expertise. Products, systems and services offered by the Group enable highly efficient manufacturing processes in different industries. Dürr supplies not only the automotive industry but also other sectors such as the mechanical engineering, chemical and pharmaceutical industries, and – since the takeover of HOMAG Group AG in October 2014 – the woodworking industry. Dürr has 92 business locations in 28 countries. With 15,200 employees, the Group generated sales of € 3.57 billion in 2016. The Group operates in the market via five divisions:

- ***Paint and Final Assembly Systems:*** paintshops and final assembly systems for the automotive industry
- ***Application Technology:*** robot technologies for the automated application of paint, sealants and adhesives
- ***Measuring and Process Systems:*** balancing and cleaning equipment as well as assembly, testing and filling technology
- ***Clean Technology Systems:*** exhaust-air purification systems and energy efficiency technology
- ***Woodworking Machinery and Systems:*** machinery and equipment for the woodworking industry

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