

Press release Sept. 9, 2013

**Industrial steam generation turns to wood gas for emissions savings**

## **Turku Energia switches from heavy fuel oil to a GASEK wood gasification solution**

**The textile and workwear services of Turun Tekstiilihuolto will be produced at lower emission levels in the future. Turku Energia and energy technology company GASEK Oy implement a new wood gasification facility to generate steam needed in the operations of a Turku laundry. The transition from oil to wood chips will reduce annual CO2 emissions by about 1,000 metric tons and cut fuel costs by up to hundreds of thousands of euros.**

A new wood gasification facility will be built adjacent to Turku Energia's existing oil-fired steam plant in Artukainen by spring 2014. The gasifier will turn wood chips into gaseous fuel, which will be burned in the same boiler which for the present runs on heavy fuel oil.

"With the help of the new GASEK gasification facility we will be able to further decrease the use of heavy fuel oil and continue utilizing the equipment we have installed earlier," says **Jari Kuivanen**, Vice President, Heat, at Turku Energia. The plant in Artukainen produces steam for the industrial laundry of **Turun Tekstiilihuolto Oy**.

### **Innovative and environmentally friendly solution**

Turku Energia aims to increase its renewable CO2 free energy acquisition and production. The company aims to raise the share of renewable energy sources to over 50 per cent in the acquisition of electricity and heat. The objective is pursued in close collaboration with the customers, among which is Turun Tekstiilihuolto.

"We are very interested in new innovative technologies. The new gasification solution is a significant step forward both for us and our customer Turun Tekstiilihuolto," states Mr Kuivanen.

### **Oil-fired boiler retrofitted to use wood gas**

Using GASEK gasification technology wood chips can replace the use of fuel oil as a steam and heat boiler fuel. The innovation turning wood chips into gas can result in annual savings up to half a million euros per each boiler megawatt for those who use process steam in industry.

"We will supply a 1.2-megawatt-capacity GASEK RETROFIT solution to Turku Energia on a turnkey basis. The agreement also includes the option of doubling the gasification capacity. We are delighted to welcome Turku Energia, the leading and innovative energy supplier in Finland, as a new business partner," says GASEK CEO Kauko Väinämö. The first GASEK industrial gasification facility was installed by Adven Oy in Tornio in the autumn of 2012.

Further information available from

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**Turku Energia** is one of the leading energy suppliers in Finland. Its energy services include electricity, and electricity distribution, district heating, district cooling and steam as well as network construction and maintenance services for distribution networks, outdoor lighting and traffic lights. For further information visit [www.turkuenergia.fi](http://www.turkuenergia.fi)

**GASEK** is a Finnish energy technology company established in 2008. The company develops and manufactures solutions for heat and steam production based on wood gasification. For further information visit [www.gasek.fi](http://www.gasek.fi)