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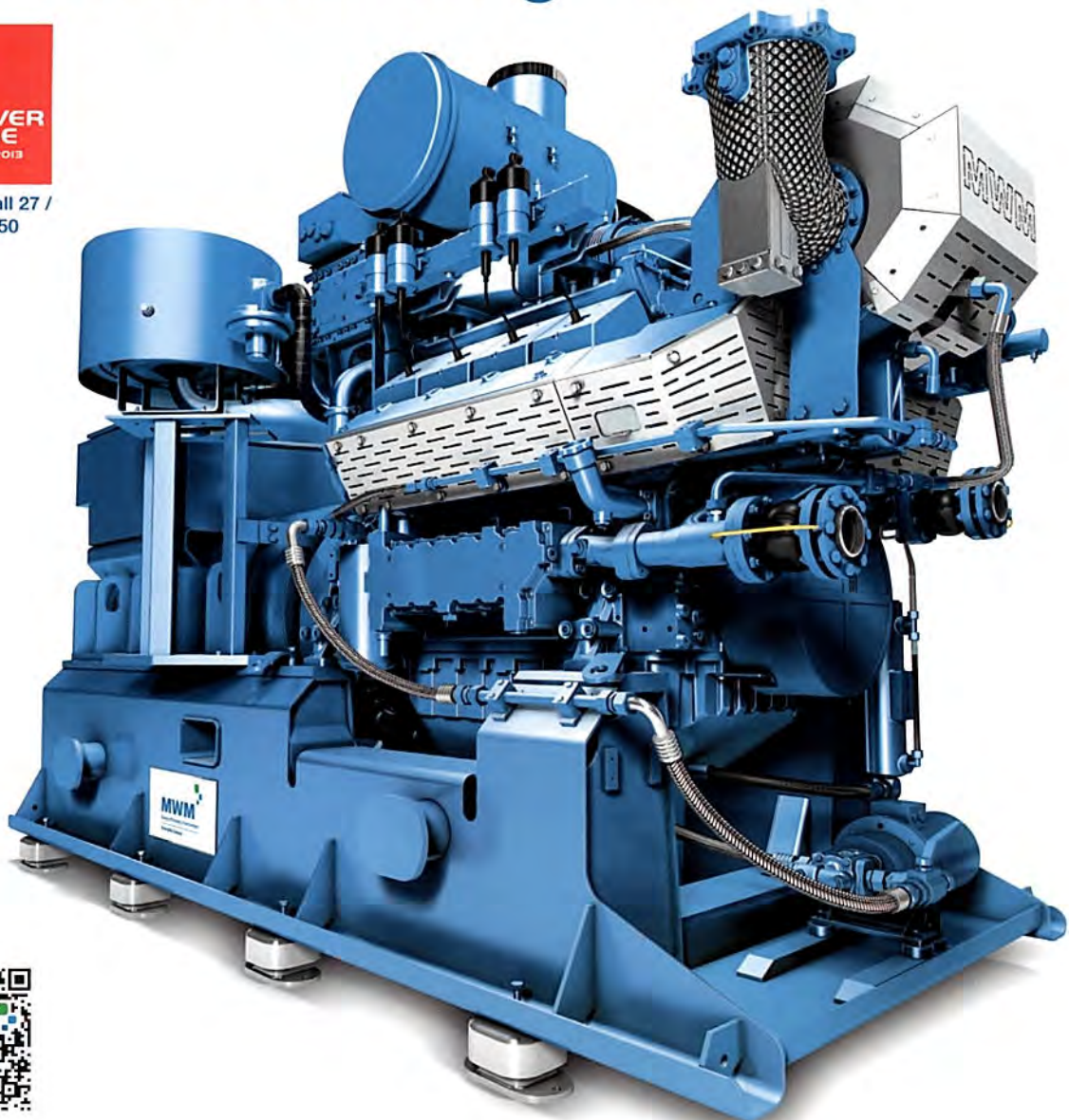
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MARCH 2013

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MWM TCG2016 engine.

Containerised gas ignition gen-sets operating in UK

In 2011, a leading independent landfill developer and operator, Renewable Power Systems of Bedford, UK, ordered five fully-containerised gas ignition generating sets from Edina based on the market-leading MWM TCG2016 range, reports WIP.

Based on the market-leading MWM TCG2016 range, the containerisation for the gas-ignition gen-sets was completed by Edina's own manufacturing company in Lisburn, Northern Ireland.

The Edina Group of companies has specialised in providing onsite power generation for over 25 years. With over 104 factory qualified staff operating from 5 locations in two countries, the Group has achieved 'true' national coverage for all service and maintenance requirements.

Edina currently offers design, supply, hire and full turnkey energy solutions.

The generator packages bought by Renewable Power Systems from Edina in 2011 are located in Scotland (Levenseat), Northern Ireland (Aughnagun) and Hampshire (New Forest, Pounds Bottom).

The MWM TCG2016 range of engines - at the heart of these packages for RPS - is described by the manufacturer as 'the market leader for efficiency, durability and proven reliability, thus providing the most cost-effective solution for any landfill, CHP or biogas requirement'.

A full spectrum of fuel sources is catered for in the product range: diesel, natural gas, bio gas and synthetic gases.



Generator packages bought by Renewable Power Systems from Edina and installed at Aughnagun in Northern Ireland. [Pics - courtesy of RPS]

The TCG 2016 gas engine is said to consume up to 15% less gas than comparable gensets thanks to its best-of-class efficiency.

The engine features special piston variants with different compressions for biogas and natural gas operation.

The TCG 2016 has optimised gas exchange and camshaft, spark plugs with integrated pre-combustion chamber.

The engine's even load balancing over the individual cylinders enables higher load level and maximum utilisation of the engine reserves in terms of output and efficiency, reports MWM.

An improved closed crankcase ventilation optimises combustion and increases efficiency by utilising the blow-by gas.

Other features benefits include a consistent downsizing of dead spaces improves complete combustion of the gas mixture, resulting in reduced fuel consumption and HC and CO emissions and higher efficiency.

At the Friedrichshagen CHP plant in Germany, for example, a Type TCG 2016 V16 gas engine currently undertakes basic

The RPS Levenseat site features a MWM TCG2016 engine.



load operation for the local combined heat and power plant.

What is special about this low-emission CHP plant is that the boilers' efficiency is increased by preheating the air current to them using the heat from the mixture cooling circuit along with the radiant heat of the gas engine. The result is that gas consumption is reduced by as much as 176,000 m³/a, reports the company.



Internet link

www.edina.eu
www.mwm.net
www.renewablepower.co.uk

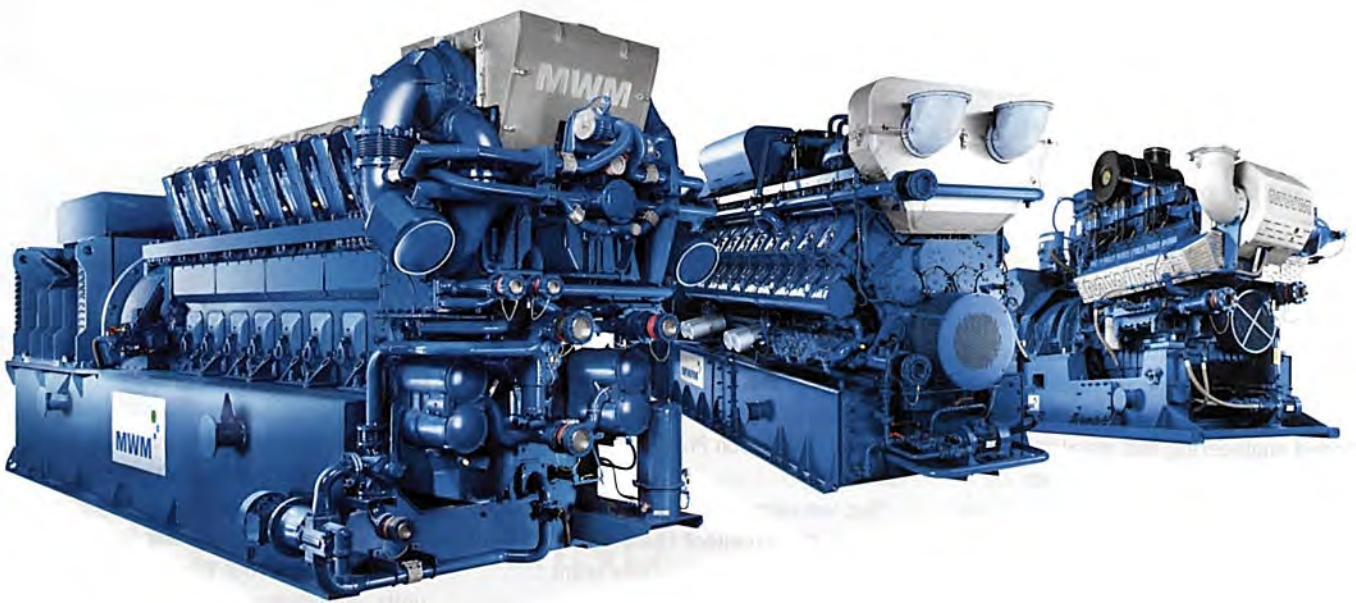
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