



## Newsletter IEA Bioenergy Task 37: 5/2015

### Biogas Plants International

#### Poet DSM lignocellulosic EtOH plant produces lots of biogas

The 25 M t/a cellulosic ethanol plant in Emmetsburg, Iowa produces also biogas. Six massive Andritz filters press stillage into two streams. The liquid part is sent to an anaerobic digester to create methane to power the plant process. The solid part goes into a boiler.

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#### Surrey Contract Award Largest in Canada

Iris Solutions a consortium led by Orgaworld Canada, part of Shanks' Organics division has been selected as the preferred proponent for the Surrey Biofuels Processing Facility project in Canada. When completed, the facility is expected to be the largest of its kind in Canada with a capacity to process a total of 115,00 tons per year including 100% of the City's organic waste, along with commercial organic waste, helping Metro Vancouver achieve its regional 70% waste diversion target.

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#### Rendered useful

The rendering business is not known for its glamour or its cutting edge technology, but in North America's first project of its kind, that is all about to change for an industry that is positioned for growth. A first US-based AD plant at North State Rendering in Oroville, California that is already paying dividends; it produces an uninterrupted supply of biogas for generating electricity, fuelling trucks and powering boilers.

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#### AD plant slashes Nestlé's electricity bill

The AD plant at Nestlé's Fawdon confectionary factory, near Newcastle, the plant is converting 200m<sup>3</sup> per day of the industry's waste water together with 1,200 tonnes a year of residual by-products and ingredients into renewable energy. The biogas produced is fuelling a combined heat and power (CHP) engine, which generates 200kW of electricity, used in the confectionary production process. This is around 8% of the factory's power requirements, cutting the annual electricity bill by approximately £100,000 (€128,000) per year. In addition, the site has registered for the Feed-in Tariff and will receive annual payments of around £250,000.

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#### Opening of Canada's largest biomethane production facility

Progressive Waste Solutions Ltd. celebrated the official opening of its gas upgrading facility in Terrebonne, Quebec, near Montreal, converting landfill gas to natural gas standard: The biomethane is injected into TransCanada pipeline network adjacent to the landfill site. The facility is designed to process approximately 10.000 cubic feet per minute of incoming landfill gas. The gas generated at the site is the equivalent of fuelling 1.500 trucks for 20 years.

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