

Newsletter IEA Bioenergy Task 37: 2/2014

Research and Development

Enzymatic pre-treatment in full scale biogas plant

As part of an experimental program conducted by the ENEA Research Centre in Bologna (UT VALAMB-IDR) and Biological Care S.r.l, the efficacy of applying an enzyme mixture as pretreatment in a full scale biogas plant constructed on the premises of Società Agricola Salera Michela e Anna Lisa & C.S.S. (CR) was evaluated. The plant was operating under a system involving co-digestion of livestock effluent and dedicated crops

[Full Report](#) in Italian

Power to Gas: Electrolysis within the Anaerobic Digester

In Germany a process is developed to produce Methane within the digester from CO₂ from biogas production and hydrogen which is produced through an integrated electrolysis. The advantages are no free hydrogen and no expensive electricity consumption.

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Biogas production from high-yield energy crops in boreal regions

In the thesis of Mari Sepälä, the methane production potential of traditional and novel energy crops was evaluated in boreal conditions. Again, Maize was the best

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Feasibility of grass co-digestion in an agricultural digester

When maize in a co-digestion plant is replaced by grass, viscosity is increasing. The elevated viscosity could subsequently be reduced again by enzyme addition in the form of MethaPlus L100, although it remained higher than those of the reference reactor receiving maize.

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Who said that biogas is only a gaseous fuel?

Ottawa-based Iogen Corp. announced it has developed and patented a new method to make drop-in cellulosic biofuels from biogas using existing refinery assets and production operations. Patrick Foody, Iogen's executive vice president, said that the company learned in December that its patents were approved for the use of renewable hydrogen in refineries to make renewable content and fuel credits.

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