

Newsletter IEA Bioenergy Task 37: 7/2016

Biomethane

Biomethane share reaches 30% at Finnish filling stations

Biomethane accounts for 30% of the gas sold as a fuel in Finland, according to the Finnish Ministry of Transport and Communication. The green fuel is available at almost all of the 24 Finnish filling stations for compressed natural gas (CNG). According to data by gas provider 45% of their customers choose green "biogas" as it is called in Finland despite the extra costs, allowing for up to 90% reduction of CO₂ emissions compared to petrol. In total the country has 1900 vehicles powered by natural gas (NGVs) on its roads, with a growth of 46% or 600 vehicles compared to the previous year. The 1700 light vehicles and cars account for the vast majority of the domestic fleet running on gas, which also includes 100 heavy duty buses and trucks.

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Global biogas upgrading market to grow to \$1.97bln by 2020

Market Research Store expects the global biogas upgrading market to grow to \$1.97 billion (€1.72bln) by 2022 at a compound annual growth rate of 28.65% from 2014-2022, according to a new market study. Some of the key drivers of the market include strict government regulations, greenhouse gas emissions reductions, volatile fertiliser price, and demand for renewable energy and transportation fuel. The biogas market is estimated to drive the market over next decade due to significant growth in residential and industrial applications. Europe is leading the biogas upgrading market, while Asia Pacific is projected to have a faster growth rate.

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Air Liquide accelerates Biomethane production

With the launch of twelve new biogas purification plants in Europe, Air Liquide intends to accelerate the production of bio-CNG. The units are located in France, the UK, Hungary and Denmark. Purification of this biogas is carried out with polymeric membranes, in this case, patented by Air Liquide.

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Wärtsilä to deliver Nordic countries' largest biogas plant to produce fuel for buses

Finnish energy solutions provider Wärtsilä has been awarded an order to supply the largest biogas liquefaction plant in the Nordic Countries to produce fuel for public transport vehicles. The Wärtsilä plant will be installed at the paper mill in Skogn, Norway, and will convert the cleaned biogas from fishery waste and residual paper mill slurry into liquid fuel. The liquid will be cooled to minus 160°C and stored in insulated tanks. The system has been specially designed to liquefy small capacity of 25 tonnes of liquid biogas per day.

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Finland: Cost-efficiency in reducing national transport emissions by 40% by 2030.

The most cost-efficient scenario to reduce transport emissions would be to invest in domestic drop-in fuels and biomethane but the use of gas in the transport sector is limited by the slow increase of gas vehicles. The report prepared by VTT estimates that by 2030, there could be around 50,000 passenger cars, 6,000 vans and 1,200 heavy duty vehicles fueled by methane in Finland. The biomethane production is not limited by the amount of available feedstock; 50,000 toe/a could be reached by anaerobic digestion and more could come from wood-based SNG. At the moment there are 24 fueling stations providing gas. [More](#)

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