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## **Biogas Opportunities In Estonia Spin**

Biogas opportunities in Estonia Ahto Oja  
OÜ Mõnus Minek University of Tartu,  
Estonian Biogas Association +372  
5082990, ahto.oja@monusminek.ee  
Estonia - a quick look Biogas Markets,

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SPIN workshop, Leipzig 2011, Ahto Oja 2  
350 km<sup>2</sup> 40 km Population of 1,3  
million Member of EU since 2004 In  
Eurozone since 2011 50% of forest, ....

## **Biogas opportunities in Estonia - spin-project.eu**

amount of Estonian biogas production is  
only around 11 million Nm<sup>3</sup> of gas

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originating from landfills, sewage sludge and slurry (liquid manure). The biggest development obstacle in taking gaseous fuels resources into use and in promoting the biogas sector in Estonia is

## **Background Paper on Biogas Sector in Estonia ... - spin**

Estonian biogas poten.al is 544 million

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Nm<sup>3</sup>/a • Feasible potential is 286 million Nm<sup>3</sup>/a • 5-8 % of total electricity consumption or 50-84 MW el installed capacity of electricity production • The amount of Estonian biogas production was only around 11 million Nm<sup>3</sup>/a in 2007,

## **Estonian experiences of SMEs**



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## **introducing biogas technologies**

Estonia is the frontrunner in Eastern European countries with high ambitions in renewable energy. Next to investments in wind- and solar power to achieve the 2020 climate goals, the Estonian Government now starts to invest in biogas upgrading to also reach their goals in renewable fuel.

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## **First biogas upgrading plant in Estonia - Water Alliance**

The biogas sector in Estonia is in an early stage of development, both in the sense of acquiring know-how and implementing practical solutions. In Estonia, the resources of biogas would theoretically enable to produce

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approximately 10% of primary energy based on biogas; the percentage of resources that could be taken into actual use is around 37%.

## **Prospects of biogas (bio-methane) production in Estonia**

Currently there are 5 agricultural, 4 WWTP based, 3 industrial biogas plants

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(Table 1) and 6 landfill based biogas plants in Estonia (Figure 1). Most of the biogas from agricultural and WWTP sludge-based biogas plants is used in the CHP-s. The price premium for renewable electricity is 0,053 €/kWh + Nordpool Spot 2 price, regardless

## **Risk Assessment of Biogas**

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## **Production in the Baltic Sea ...**

For that, SPIN contributes to knowledge transfer in the field of policy-making and effective support scheme design.

Regarding technological needs, the biggest demand in Estonia is for increasing the operational reliability and productivity of biogas plants – a need that also can be addressed with

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technology and information transfer.  
There is however local expert knowledge  
available that can support developers  
and entrepreneurs, too.

## **spin | Newsletter**

Background and position paper on  
biogas sector in Estonia (2011) -  
University of Tartu (SPIN project) Biogas

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(Biomethane) and Natural Gas Market Concept (2011) - Gasum Oy; Overview and pilot feasibility study on market opportunities and potential of biogas and biomethane production from municipal biowaste, sewage sludge, with special focus on animal waste and slaughter house by-products (2011) - Gasum Oy

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## **Balti Biometaan OÜ**

At least 20 biogas innovation highlights can be found there! Biogas in Baltic Sea Region countries SPIN biogas highlights cess is a liquid fermentation residue that can be used as fertiliser if quality pre-requisites are fulfilled. In some countries (e.g. Germany) national



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framework for biogas has encouraged farmers to grow and use energy crops,

## **SPIN Project biogas 1201 zD**

Anaerobic digestion provides opportunities for biogas to be used for generating energy, such as electricity, heat and fuel with additional economic, environmental and climate benefits. In

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Europe, most of the modern anaerobic digestors provide electricity and heat in electricity only plants, heat only or Combined Heat and Power (CHP) plants.

## **Biogas: Developments and perspectives in Europe ...**

There is a major gap between resource potential, technological capacity and

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practice in Estonia. About 2 % of the theoretical potential of biogas is being used, totalling around 11 million Nm<sup>3</sup>, based primarily on landfill biogas.

## **Underdog or bulldog: introducing biogas technologies in ...**

Estonia is a small producer and consumer of biogas. In 2007 almost 12

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NCUM of biogas were produced (similar level as in 2008). In 2007, the share of biogas by raw material follows: landfill gas (71 percent), sewage sludge (23 percent), and manure (6 percent). Biogas produced is consumed by the domestic market.

**Estonia Renewable energy and bio-**

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## **fuel situation in Estonia**

Benefits of the Trial membership Project leads Exclusive and public business opportunities in biogas and RNG/biomethane industry PLUS weekly alerts (Please note that there is a limit of two replies to exclusive bids during the Trial) Catalogue listing Free profile for your company and products Tradeshow

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discount Discount available upon request to one industry event...

## **Trial Plan • BiogasWorld**

1. Introduction 1.1. Renewable energy and bioenergy production. In 2007, the European Commission proposed an integrated Energy and Climate Change package on the EU's commitment to

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change: the Energy policy for Europe (COM(2007) 1 final) , and the Limiting Global Climate Change to 2 °C - The way ahead for 2020 and beyond (COM(2007) 2 final) .This includes an EU commitment to achieve at least a ...

**A spatial analysis of biogas potential from manure in ...**

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Biogas August 22, 2019 In the United States (US), gas and power utility major Dominion Energy Inc., and Smithfield Foods, Inc., the world's largest pork processor have announced the groundbreaking on North Carolina's largest renewable natural gas (RNG) project through their multi-state joint venture, Align Renewable Natural Gas



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(Align RNG).

## **Align RNG breaks ground on North Carolina's largest biogas ...**

Pulp producer AS Estonian Cell has started operations of a new wastewater treatment and biogas plant at its facility in Kunda, Estonia. The EUR 11 million investment features a "state-of-the-art

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technology" providing an innovative solution in the context of pulp production while making the company the single largest producer and consumer of biogas in Estonia.

## **Estonia's largest biogas plant begins operations ...**

Biogas Power - Romania 1.Overview

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Biogas is produced by the fermentation of plants, food remnants, biological wastes or animal excrement (manure) and is also found in waste treatment facilities and landfills. Biogas contains a high amount of methane that can be used to recover energy.

## **Biogas Power Opportunities**

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Benefits of the Gold membership Market intelligence Reports on biomethane markets, safety, guidelines, etc. Online tools, including project feasibility assessment, project due diligence Industry directory and project leads Access to industry contacts for your business development efforts Contact

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information of 1000 companies, updated weekly Exclusive and public business opportunities in biogas ...

## **Gold Plan • BiogasWorld**

for, e.g., the processing of biogas. Excellent market opportunities for international technology suppliers “In the environmental protection activities

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laid down in the current five-year plan of the Chinese government, biogas technology plays a key role”, said Prof. Dr. Michael Nelles. Nelles, who teaches Waste and Material Flow Management at

## **Chinese biogas market on the upswing - IE expo**

Bioenergy includes the generation of

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heat or electricity from either the combustion of organic or waste materials or their conversion to biofuels.

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