

## NOMINATED TO NORDIC ENERGY MUNICIPALITY 2011 Municipality of Lidköping



### Lidköping Biogas – A Joint Venture

The Municipality of Lidköping was nominated as a finalist for the Nordic Energy Municipality 2011 with the project Lidköping Biogas – a joint venture. The city of Lidköping, having 38,000 inhabitants, is located in south-western Sweden close to Lake Vänern. The development of biomethane production in the City of Lidköping was initiated in 1990, and in autumn 2011 the plant at the Kartåsen refuse treatment plant will operate with full capacity. It is one of the first of its kind in the world producing both compressed and liquid biomethane for vehicles. The production will be sufficient to cover the consumption of 6,000 cars driving 17,000 km annually.

The cutting-edge elements of the project are:

- the use of residues from local food industries
- the liquefaction of purified gas.
- biomethane produced where the

supply of refuse is good with transport to the market.

Benefits brought along by this project include the following:

- Reduction of 16,000 tonnes of CO<sub>2</sub>-emissions per year
- Contribution to the realization of the city's environmental goals and to boost green growth and business development
- Opportunity for the City of Lidköping to start using biomethane in its own vehicles.

The Lidköping plant offers a model for compressed and liquefied biomethane production from biological waste. Vehicles are filled up with compressed biomethane at the plant and the gas is transported to near-by filling stations. Big 'thermostanks' are filled with liquid biomethane and transported to bigger cities.

### NORDIC ENERGY MUNICIPALITY 2011

The Nordic Energy Municipality 2011 Project highlights sustainable energy, green growth and energy-related climate efforts in the Nordic countries. The initiative particularly recognises municipalities who have introduced special efforts to undertake innovative energy projects.

The initiative is based on cooperation between the Danish and Finnish Presidencies of the Nordic Council of Ministers for Energy. In total, 44 Nordic municipalities have forwarded an application to the Nordic Energy Municipality 2011 competition each describing a cutting-edge energy project. Of these 44 applicants, 14 municipalities have been nominated as finalists.

<http://www.nordicenergymunicipality.org/>



#### QUOTE



Environmental strategist Yvonne Träff, Lidsköping Municipality

“Lidsköping Biogas is a very exciting project that is characterized by innovation and collaboration between municipalities, private companies and associations. There is also a huge leap forward in the municipality’s ambitious quest to reduce greenhouse gas emissions. In order to achieve the international goals in the important but difficult transport sector, we must assume our responsibilities at the local level and replace petrol and diesel with renewable fuels. Liquid biogas opens up a new future market where heavy vehicles can be powered by biogas”.

The project is a cooperation between the Lidsköping Municipality as the initiator, Gothenburg Energy, Swedish Biogas International and Fordonsgas Sverige AB. The digester part of the plant is owned by Swedish Biogas International Lidsköping AB and the liquefaction by Gothenburg Energy and Lidsköping Municipality. A prerequisite for the project is very good cooperation between stakeholders in the project and local farmers, transport, suppliers of vehicles, food companies and others.

The total cost of the project is 170 million SEK, the funding coming from private partners (45 %), Gothenburg Energy (35 %), the Swedish Government (19 %) and Lidsköping Municipality.

#### NORDIC VISION OF SUSTAINABLE ENERGY AND GREEN GROWTH

The Nordic Energy Municipality 2011 project provides practical and concrete examples of how the Nordic vision of sustainable energy and green growth may be realised and how it can show the way forward.

Ever since the Nordic Council of Ministers adopted the first sustainable-development strategy in 2000, the Nordic countries have been working together towards sustainable Nordic societies. The joint Nordic vision is to prepare for future independence from fossil fuels or CO<sub>2</sub> neutrality. The main issue for the Finnish Presidency in 2011 is to address climate change at all levels.

#### GREEN GROWTH AS AN INTERNATIONAL TREND

The Nordic vision is constantly being challenged by increases in the demand for energy and volatile oil and energy prices. However, these global challenges are fuelling an international trend for green growth which offers great economic opportunities: new markets are being created within energy efficiency, renewables, low carbon transportation and new technologies like carbon capture and storage (CCS). The Nordic Countries are well prepared to benefit from the current trend in green growth, as they constitute an innovative and sustainable region, both at the political level and with regard to the development of new technologies. Many of the practices and instruments currently being introduced in other countries have been in place for decades in the Nordic region, e.g. high energy and CO<sub>2</sub> taxes. Also, the Nordic countries have many leading technology companies in relevant fields as well as environmentally conscious consumers.

#### FOR MORE INFORMATION ABOUT THE PROJECT

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