

The Swedish recipe for a carbon free environment

October 6, Stockholm House, 28, Avenue Marnix, Brussels

Welcome!

Sweden is taking a leading role in moving towards a carbon free society. In recognition of this, we would like to invite you to join us to learn from our experience and meet the people who can help you achieve our common goal of a carbon free environment.

Uppsala County Administrative Board will host a one day event in cooperation with the academic community, government agencies, and the public and private held sectors. Presentations will be given by six key innovators working in the field of emissions reduction. This event will provide excellent networking opportunities for policy makers, researchers, businesses and other interested parties.

In addition, there will be poster displays of the EU POWER Programme featuring a joint project 'Strategy for Energy Efficiency through Climate Agreements' between Uppsala County (Sweden), Tallinn (Estonia) and the Municipality of Niepołomice (Poland).

Programme:

10.00-10.30 Welcome Address

His Excellency Magnus Robach, Sweden's Ambassador to Belgium, Governor Peter Egardt, Uppsala County and Mr. Philippe Suinen, CEO of AWEX, Wallonia Foreign Trade and Investment Agency.

10.30-11.15 Vertical Wind – Wind Power

Björn Hellström, President presents how to generate electricity from vertical wind turbines.

11.15-12.00 Ena Energi - Turning waste to green energy

Urban Eklund, President of Ena Energy presents how Enköping's municipality use waste water and bio fuel for producing green energy for the city.

12.00-12.45 Electroengine – Electric Cars

Thomas Bergffjord, Electroengine's President talks about how electric motors can be used to produce practical electrical cars.

12.45-14.30 Lunch

A Baltic Sea buffet, courtesy of the EU POWER Programme.

14.30-15.15 Seabased – Wave Energy

Billy Johansson, Seabased's President presents how to generate electricity from sea waves.

15.15.-16.00 Biogas – The Uppsala case from research to business

Lars Brolin, Director of Business Development at Scandinavian Biogas and Peter Eklund, Project Manager at Uppsala Bus present how biogas have been a both an environmental and financial success as fuel for public transportation.

16.00-16.45 SKB – The Uppsala Case of nuclear waste management

Stig Björne, President of SKB Business Development Co., presents the new final repository.

17.00 Closing remarks and cocktail

Philippe Lachapelle, Director of Business Development and Partnerships, AWEX.



European Union
European Regional Development Fund



Project Partners:
Uppsala County Administrative Board
Niepołomice Municipality, Malopolska Region
Tallinn City Government Environment Dept

About our speakers

Björn Hellström. *Vertical Wind AB is a research company based in Sweden which develops and manufactures advanced wind power technology. The company was founded 2002 by researchers at the Division for Electricity and Lightning Research of Uppsala University, Energy Potential AB and Uppsala Universitets Utveckling AB in order to commercialize some of the ideas spawned from academic research in wind energy.*

In April 2008 Vertical Wind expanded from ideas and patents to an operational company seated in Uppsala, Sweden. In October 2009 Vertical Wind acquired a production facility in Falkenberg, Sweden where production of the 200kW system was set up.

The municipality of Enköping. *The municipality of Enköping provides its inhabitants with green energy. Ena Energy uses bio fuel, Salix energy forest, which is purchased from local farmers. The Salix is irrigated via nutritious waste water from the municipality and harvested every third year. Thus, waste water can be cleaned without chemicals, the energy forest does not need chemical fertilizers and possibly hazardous chemicals in the waste water are filtered in the heating plant when the Salix is burned rather than ending up in nature.*

Thomas Bergfjord. *Electroengine makes it possible to provide high performance electric drive technology for today's standard cars. The company has developed a complete system for electric propulsion that can easily be installed in most of the cars that currently use internal combustion engines – this includes new cars and also, there are plans to extend this to second hand vehicles. The system is called True Electric and includes a completely new way of managing and checking a vehicle's batteries that leads to increased energy output and a significant increase in the lifetime of battery packs.*

True Electric involves the use of very high performance and advanced so-called synchronous electric engines and a new engine control system that dispenses with the need for a gearbox or the traditional differential. Furthermore, Electroengine has also developed new, high performance power electronics together with its partners. The system weighs a fraction of the alternatives currently available and takes up very little space in the vehicle.

Billy Johansson. *Seabased is a university spin-off that produces electric energy from waves. The company works in close cooperation with researchers at the Division for Electricity, Department of Engineering Sciences, at Uppsala University, Sweden. The group has world leading expertise in generator design. The wave energy converters are optimized for different sea conditions with a world-class, multi physical simulation tool further developed by the Uppsala researchers. It calculates motions, forces, electromagnetic fields and heat conduction in different wave climates by solving fundamental physical equations.*

Lars Brolin and Peter Eklund. *Lars Brolin is the Director of business development at Scandinavian Biogas, a world leader in optimizing the production of biogas at wastewater treatment plants, ethanol and biodiesel plants, landfills and from other large streams of organic waste. Based on patented technology and end-to-end expertise in the biogas process, Scandinavian Biogas can increase production by a factor of 3-5 times in an existing wastewater digester volume. Scandinavian Biogas' main business model is to own, fully or in part, the production sites, operate them and act as supplier of the energy.*

Peter Eklund is a Project Manager at Upplands Lokaltrafik, UL, which is Uppsala County's main public transport company, has an engineering background. UL operates about 250 busses and 10 trains for regional traffic. The busses are run on biogas produced by a spinoff from local research.

Stig Björne. *President Stig Björne will present SKB, Swedish Nuclear Fuel and Waste Management Company and their work in developing a final repository. SKB is tasked with managing and disposing of all radioactive waste from Swedish nuclear power plants in such a way as to secure maximum safety for human health and the environment. The assignment is so extensive that it is considered one of Sweden's biggest environmental-protection projects.*

SKB currently has two facilities; a central interim storage facility in the south of Sweden for spent nuclear fuel and a final repository for short-lived radioactive waste in Uppsala County. All transport is by sea. SKB has recently selected a site for disposal of spent nuclear fuel – this final repository in Uppsala will be built in the near future.

