POWER Newsletter 4

EmPowering low carbon economies

Welcome to the POWER newsletter which aims to keep you informed of the progress of the POWER Programme.

POWER is a €5.8m interregional programme aimed at driving Low Carbon Economies partly funded through INTERREG IVC in 7 European regions. Nine projects are funded under POWER.

Newsletter 5

- **Highlight on the Stockholm Region and how the projects TIMBER, E-MOB, SEECA are contributing to the region's plans for more efficient use of energy resources**
- **Focus on the GENERATION Project**
- **POWER Policy Group**
- **Results of the POWER Policy poll**

Please forward this newsletter to any colleagues and associates that you think might be interested to know about the POWER programme.

Please note the POWER secretariat at SEEDA will be closed from 21.12.10 to 4.01.11. *Please contact our Polish Partner Agata Wesolowska on +48 12 29 90 677, awes@malopolska.mw.gov.pl for any urgent enquiries.*

Highlight on the Stockholm region

Green energy in the Stockholm region - there are no shortcuts

Energy provision and the challenges related to climate change are of the utmost importance for the future of the Stockholm Region. We need to change and reform the current energy systems and replace fossil fuels with renewables.

We also have to make energy use more efficient in society. In order to achieve this all actors need to be involved in the Stockholm Region, both public and private.

In the long-term, up until 2030, the Stockholm Region aims to phase out all use of coal, to be replaced by bio fuels and waste incineration.

Also wind power offers great potential as an important source of renewable energy, but could be used significantly better than today.

By 2050, no fossil fuels will be used in energy production in the Stockholm Region.

In this context, all the knowledge gathered in the POWER project plays an important role to reach this challenging target.

The Region of Stockholm is involved in 5 POWER projects

One of these is **TIMBER** (Tools for Integrated Management of Biomass Energy Resources). This project will deliver a biomass energy model for general use on a regional scale which can be used throughout Europe. For the Stockholm Region's stakeholders this is an important contribution to inform better decision-making on this issue. They will produce a biomass energy plan for the Stockholm Region. By doing that the future potential and also an enhanced production of biomass driven energy projects can be promoted. The Stockholm Region has so far a lack of effective small scale energy production in rural areas. For Stockholm County Council, the TIMBER project is also an important input to the ongoing work with its Regional Action Program for Energy and Climate and could lead to some sound policy recommendations. The exchange of knowledge with colleagues from the Netherlands, UK, Spain and Poland is of course also an important part of the project.

Another POWER project deals with electric vehicles. This project is named **E-mob** and aims to define common strategies and policy recommendations to accelerate the successful market introduction of electric vehicles in the participating regions. The project is connected to the electric vehicle demonstration event taking place in Uppsala in 2011 - 2012. This demonstration includes a number of SAAB E-power cars. The experience and contacts from the project give a good basis to set up the demonstration in Uppsala, in a more market oriented way. - '*It's exciting to see how fast the electric vehicle market is developing in Europe. It is perfectly clear that we must begin to put in hard efforts to keep up'*, says project leader David Börjesson from Energihuset Uppsala.
Besides Energihuset Uppsala, Oxford Brookes University, City of Malaga, University of Malaga, BOM from Holland and MEER from Poland are participating in the E-mob project.

POWER also supports another project which aims to encourage energy efficiency through the development of Climate Agreements. This project, called **SEECA,** is led by the County Administrative Board in Uppsala, Stockholm Region, and encourages industry, government and non government organisations to sign up to voluntary Climate Agreements which commit them to reducing their carbon footprints. An important component of this project is the promotion of 'eco driving' of heavy machinery, which is a source of much of the emissions within Uppsala County. Simple practices such as turning off the tractor or lorry engine when the vehicle is not moving or driving the vehicle at a lower speed can reduce emissions considerably (but people need to be persuaded to change their behaviour).
Results from the SEECA project will be shown during the Sustainable Energy week in Brussels 11-15 April next year and the event will soon appear on the Sustainable Energy week website: www.eusew.eu.

Joanna Szyfter, Regional Correspondent, Stockholm Region

"Green ENERgy AudiTIng for a LOw CarboN Economy"

The GENERATION Project's main goal is the development of an innovative methodology ("Simplified Energy Audit") that will facilitate the assessment of the energy performance of buildings. For this purpose, the partnership has carried out a State of the Art Analysis regarding building energy audits in each partner region as an input to develop the Methodology for Simplified Energy Audits (SEA).
The State of the Art Analysis describes and analyses the current situation of energy audits for public buildings (administrative, health centres, schools, day care centres and residences, sport centres, etc.) in the countries and regions involved in the GENERATION Project. It has been structured in three phases: first, a search for articles published in journals related to energy audits in public

buildings, then gathering information through a questionnaire in the four regions and finally the validation of the results obtained in the two previous phases by the Advisory Boards of the project. The final document includes four SWOT analyses, one for each region, with eight Best Practices identified during the analysis development and the related conclusions.

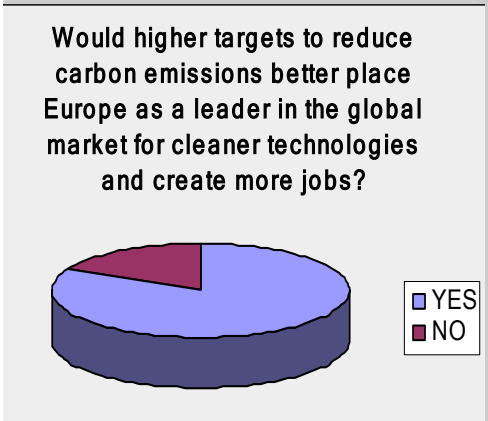
The SEA Methodology includes a description of the methodology used for the energy demand and consumption calculation and the Heat Balance method used for the energy demand calculation and CTF (Coefficient Transference Functions) used as method for the gain through the external walls, roofs and floors. It also includes one demo of a computer-based tool, a RTS (Radiant Time Series) method for the cooling and heating demand, a method for Consumption Breakdown of electricity bill information and a complete methodology to adjust the operative COP/EER and/or infiltrations when only nominal values are known.

Both results will be tested by conducting real audits of public buildings, followed by a set of recommendations to local and regional bodies.

POWER Policy

POWER Policy Forum survey

EU Climate and Energy Package: 20-20-20 targets



82% of persons who responded to the survey run on the POWER Policy Forum in October and November 2010, believe that to remain competitive, there should be even higher targets for the reduction of CO_2 emissions in Europe.
Follow the discussion on www.powerprogramme.ning.com

The POWER partners recognise that a low-carbon economy will require governments, regions, businesses and consumers to work together in order to reduce emissions and aims to engage with all the different actors.

A series of policy events, Policy Working Group and staff exchanges have been organised on Energy Efficiency, Renewable Energy, Eco Innovation & Environmental Technologies, Sustainable Transport and Behaviour Change, as preparation for the policy road maps, which will be delivered at the end of the programme. Already, we see Behaviour Change emerging as the theme which cuts across all of our POWER sub project activities. During times when budgets are cut or constrained, applying a successful behaviour change initiative can be an alternative way to achieve good results during leaner times.

Brief summary of the on going POWER Policy Working Group activity:

Step one Reviewed the current policy picture in each region and each region's aims for the next horizon under each of the POWER themes. Clearly identify the policies/strategies/laws where there is potential for the Power Programme to influence, in areas that contribute to a low carbon economy.

Step two Send the policy experts to the themed events to exchange the latest knowledge and expertise, interact with the related sub projects and keep horizon watching in the field (share anything new on the Policy Forum)

Step three Decide which initial elements are of most importance to their own region, and agree with their stakeholders which senior decision makers they should target to support the
POWER programme work in this area.

Step four Keep a record of all of the above – as the pathway to their road map – *what they focused on and why, who they engaged with, what method of engagement they used, record how the movers and shakers in their region*

Connie HEDEGAARD, European Commissioner for Climate Action has stated at a recent meeting with business leaders *"spread the good example that [climate policy] is also good for the bottom line*".

See the full article in the FT: EU warms to business of climate change

By Joshua Chaffin in Brussels

Published: 30 November 2010

supported the programme.

Step five Cross theme Policy Working Group Meeting in Prague, Czech Republic – summer 2011.
An example of how any one measure can cover multiple policy areas: increasing the uptake of electric vehicles may affect research into new technologies, clustering of businesses in the chain to support that uptake, even new jobs (economic factors) where E-Mob may provide input. But wider uptake could also make a contribution to improve air quality in towns & cities as well as having implications for land-use and planning. The ease with which users can reliably charge their vehicles (preferably using energy from a renewable source) or how quickly they are introduced into public fleets might be informed by the other sub projects working in different themes and may have useful evidence on which to base policy recommendations. As to whether the quietness of these vehicles is an advantage or a health and safety risk, the jury is still out! I am confident the POWER projects will be in a position to provide tried and tested answers which will help the regions to update elements of
their low carbon policies and strategies with holistic approach.

Step six Power Programme results and recommendations will be shared at a **Final Event in Brussels, 20 and 21 September 2011** in the form of policy road maps, a set of policy recommendations, the findings of an independent evaluation and will be followed up in a legacy report with the best practices identified. These will be easily replicable and placed in the public domain on numerous websites.

Janet Borgers, Lead European Project Manager

The POWER Partnership would like to wish all our partners and colleagues a very Merry Christmas and Happy New Year!

For further information on the Programme and all sub-projects go to http://www.powerprogramme.eu/