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Delft develops sustainable District Heating

Within SESAC, Pilot City Delft develops a heat transport company that uses renewable energy sources in the form of low temperature heat sources for a local heating grid. During a 2-day workshop in Gothenburg, Sweden, SESAC technical coordinator (the Energy Agency for Southeast Sweden - EASS) shared their long experiences of green district heating with the Delft engineering team. The concluding remarks of the workshop indicate that Delft is about to take a big step forward towards sustainable heating.



In Gothenburg, '[Göteborg energi](#)' runs a citywide district heating system. All kinds of heat sources feed this almost 1,000 km network: industries, traditional and state-of-the-art combined heat & power (CHP), and heat from the municipal waste-water treatment. The waste-water heat system uses an absorption heat pump to withdraw energy from clean effluent and has been in use for over 20 years. On 19-20 June 2006, the Delft engineering team went to Gothenburg to learn and discuss good design and maintenance experiences. A welcoming delegation from Göteborg energi revealed experiences varying from blue cleaning balls (a technical application) to contractual benefits clauses.

Göteborg energi showed their almost complete 600 MW Combined heat & power plant at the Rya site. This CHP plant will use natural gas to produce heat and electricity. Later it will also use gasified biomass.

After the site visits, a long assessment session took place. In the working session, Stefan Olsson from [EASS](#) and Lars Ehrlen from [VEAB](#) (municipal energy company in Växjö) questioned both the conceptual system design and hydraulic engineering. The engineers from the Delft team welcomed suggestions and critical remarks. Specific items to the next specification phase were written down.

Finally, Göteborg energi provided the Delft engineers with a written second opinion, in which they underline how Delft is on its way to a successful CONCERTO project - a project that will build on Swedish experiences.



Contact person in Delft: Kees Kruijff. Tel +31 15 260 27 88

Citizens involvement in Växjö

The Växjö Environmental Calendar

In 2006, Växjö municipality introduced an environmental calendar, which is distributed to each household in the municipality. It consists of useful environmental information to the inhabitants. Different municipal departments contribute with relevant information and photos. SESAC has contributed to the 2007 calendar with one page consisting of sustainable energy and energy-saving information (mainly regarding sustainable energy houses/apartments).

Contact person: [Cecylia Amanowska](#)



Växjö municipality's climate exhibition 2006

Last summer, a climate exhibition was presented in the city centre where civil servants were available to answer questions from the public. Broad information was disseminated among citizens.

Contact person: [Henrik Johansson](#)

Biofuels for public mobility: polygeneration from biological waste at 'Sundet'

The first biogas fuel station for vehicles in Växjö, Kronoberg County, is being built at Sundet, the biological waste plant. Waste plant Sundet will be able to provide 80 cars (each car is expected to drive some 10,000 km/year) with biogas fuel. The biogas will be produced from sewage waste, fat, food leftovers, etc, and mainly will be used by municipally-owned cars, although numerous private companies have shown interest in fuelling with biogas. A total of 20 million SEK has been invested in the plant, which consists of a waste reception station, gas purification and a fuel station.

Contact person: [Steve Karlsson](#)

The SESAC market interaction: interested to take part?

The market interaction activities focus on potential cooperation between local authorities and private companies working in the fields of: building, refurbishment of buildings, electricity supply, heating and cooling systems, integration of renewable energy technologies in building, and all other areas of work included in the SESAC demonstration projects. The goal of the interaction is to support these actors to work together and supply the market with more sustainable products. A mailing list and some strategic meetings will aim at facilitating the exchange between companies and local authorities, enabling them to identify ways to work together more profitably.

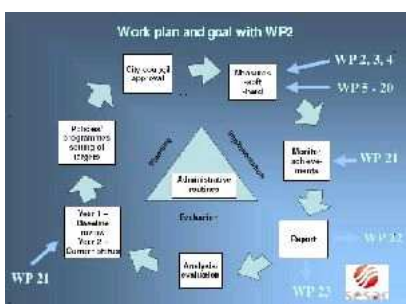
If you are either a business or local authority representative interested in such activities, feel free to

contact ICLEI and join the SESAC market interaction!
Contact [Ilenia De Altin](#)

Integrated management systems



The main goal of the 13 November SESAC workshop in Delft was to start developing and implementing an integrated energy management system. To achieve this aim, the delegations from all SESAC partners have analysed the inventory collected in the past months to assess strengths and weaknesses of their present situation. The inventory functions as a "help desk" for the cities, enabling them to monitor the current energy management situation at the local level. The inventory focuses on the seven steps of the energy management cycle, which the cities have agreed on during the past months (see picture).



Sesac management cycle

[picture \(large size\)](#)

Through the SWOT (Strengths Weaknesses Opportunities Threats) analysis of the current management systems used, the consortium will be able to check which training needs each single city can expect in order to integrate their system in the best manner.

Individually tailored management systems

The project does not have the goal of "compelling" the cities to adopt a specific management instrument. The idea is indeed to promote and refine the current systems used and possibly to adapt them to the characteristics of the agreed cycle. All delegations showed their conviction that the implementation of the management cycle is required in order to help them set and meet the targets in the field of energy and climate.



Grenoble and the DE BONNE neighbourhood

De Bonne, the central area for several Demonstration projects (New eco-building, new school, co-generation, PV plant) is much more than an ecological building area. Even the urban park - more than 3 hectares in size - is designed in an ecological way regarding rainwater infiltration, green space, open ground, lighting, etc. The building phase began this summer. The first milestone for the new school has been set in October.

Further information on this sustainable neighbourhood will soon be available on the [SESAC webpage](#) (webpage active from late December 2006)

Events and news snippets

A Future with zero CO2 emissions: conference report available

By mid-December, the report of the conference "A future with zero CO2 emissions", held in the City of Stockholm in May 2006, will be available. It contains a selection of the most interesting good practice examples of climate protection presented by European local authorities during the conference. Further information about the Reinforced Strategy for the Cities for Climate Protection (CCP) campaign and the Stockholm Impulse declaration will also be part of the report, which will also be available for download on the [conference webpage](#).

Assises nationales de l'Energie (National Energy Event in Grenoble)

Date: 30-31 January 2007

Place: Grenoble, France

Co-organised by la [Grenoble Metropole](#), [Dunkerque Metropole](#) and [Energie-Cités](#).

Clean Energy Power 2007

Date: 24-25 January 2007

Place: Berlin, Germany

Web: www.energiemessen.de/engl

Take a week to change tomorrow: EU Sustainable Energy Week

Date: 29 January-4 February

Place: Brussels, Belgium and several other European cities

Check the list of events on the webpage: www.eusew.eu

Conference about 2 Concerto projects: SESAC-Grenoble and Renaissance-Lyon

Date: 1 February 2007

Place: Grenoble, France

Visitors can also visit an exhibition about the Grenoble SESAC project. The event is part of the first EU Sustainable Energy Week, at the initiative of the European Commission's directorate general Transport and Energy.

World Biofuels Markets Congress and exhibition

Date: 6 - 9 March 2007

Place: Brussels, Belgium

Web: www.worldbiofuelsmarkets.com

5th European Conference on Sustainable Cities & Towns

Date: 21-24 March 2007

Place: Sevilla, Spain

Web: www.sevilla2007.org

Join the conference to meet with more than 1000 delegates committed to sustainability. The event builds on the success of local governments to meet, exchange and concretely commit to advancing sustainability in Europe. It follows the series of conferences held in Aalborg 1994, Lisbon 1996, Hannover 2000, and Aalborg 2004.

The International Congress on Energy Efficiency and Renewable Energy Sources

Date: 24-26 April 2007

Place: Sofia, Bulgaria

Web: www.viaexpo.com/congress-ee-vei/eng/congress.php

We invite your comments on the newsletter.

Do you have articles or events of interest relevant to sustainable energy systems in advanced systems or to climate protection? Please pass these on to [ICLEI](#) or to [Energie-Cites](#)

Other projects:

For further information on the CONCERTO initiative and other CONCERTO projects, please visit the CONCERTO homepage www.concertoplus.eu.

Contacts:

- Newsletter Editors: [ICLEI](#) - www.iclei-europe.org - Local Governments for Sustainability, Climate & Air Team and [Energie-Cites](#) -

www.energie-cites.eu - The association of European local authorities promoting a local sustainable energy policy.

- Project Coordinator: City of Vaxjo, Sweden - Sarah Nilsson, sarah.nilsson@kommun.vaxjo.se, Manager of International Projects

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