



Project Acronym : SESAC

Project Title : Sustainable Energy Systems in Advanced Cities

Coordinator : Växjö Kommun – Sweden

Website : <http://www.concerto-sesac.eu/>

ABSTRACT

SESAC is part of the broader CONCERTO initiative with the aim of accelerating innovation in renewable energy (RE) solutions, advance energy efficiency (EE) and systems for poly-generation linked together with concepts for eco-buildings.

Local stakeholders in Delft (NL), Grenoble (FR) and Växjö (SE), supported by different partners, will demonstrate how a more sustainable local energy economy can be achieved through incorporating innovative approaches to the implementation of energy efficiency measures in new and refurbished buildings together with an increased use of renewable energy technologies and systems for electricity supply, as well as for heating and cooling.

Tools for effective policymaking, implementation, monitoring and management of the sustainable energy processes will be developed. Researchers will also analyse and ensure the quality of the measures, whilst the city networks will disseminate the results widely. The overall objective is to show how sustainable energy systems can be achieved by a combination of good governance, innovative co-operation and concrete measures in Delft, Grenoble and Växjö, and to transfer the knowledge and experiences to other local authorities.

Expected results

Based on local energy analysis and EU policies, different areas for substantial reduction of GHGs have been identified and will be demonstrated in this project, in particular:

- * a district heating system with low temperature waste heat,
- * design, construction and operation of (energy optimised) eco- buildings,(35-40% lower energy use than national standards),
- * demand-side management, such as individual metering (and consumer initiated load control),
- * absorption cooling using RES district heating system (or thermal solar energy),
- * photovoltaics energy integrated in buildings.

The project will be supported by researchers and technical specialists to ensure the quality of the measures, while city networks will ensure that the results are made available to other cities and industry through wide dissemination.

As associated partners, the three cities of Kaunas (LT), Miskolc (HU) and Vastseliina (EE) will be the first cities to study the results and work-methods, and make local energy flow analysis in order to develop their own CONCERTO proposal at a later stage.

PARTNERS

Office Public d'Aménagement et de Construction de l'Isère - **France** ; KUNGLIGA Tekniska Högskolan - **Sweden** ; VAEXJOE Energi - **Sweden** ; Växjö Kommunfastigheter AB - **Sweden** ; Energy Agency for Southeast Sweden - **Sweden** ; City of Delft - **Netherlands** ; Delfts Energie Agentschap - **Netherlands** ; Stichting Volkshuisvestingsgroep WoonbronMaasoevers - **Netherlands** ; Organ. Ville de Grenoble - **France** ; Soc. d'Aménagement Grenoble Espace Sud - **France** ; Electric. de France Délég. Régionale Rhône-Alpes - **France** ; Gaz Electricité de Grenoble - **France** ; Grenoble Alpes Métropole - **France** ; Energie-Cités - **France** ; ICLEI Europ. Secret. GMBH - **Germany** ; Municipality of Miskolc - **Hungary** ; Vastseliina Rural Municipality - **Estonia** ; Kaunas City Municipality - **Lithuania**