

Proceedings of the 1st European
Conference on Polygeneration.
Technologies and Applications

Palau Firal i de Congressos, Tarragona, Spain
October 16th and 17th 2007

Editor:

Alberto Coronas

Associated editors:

Joan Carles Bruno

Francisco Táboas

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If you wish to get another copy of the proceedings volume of this conference, please contact CREVER – URV. Prof. Dr. Alberto Coronas Tel: +34 977 559665 Fax +34 977 559691 Email: alberto.coronas@urv.net

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The European Union has adopted an energy policy which doesn't simply aim to boost competitiveness and secure energy supply but also aspires to increase significantly energy efficiency, to save energy and promote climate-friendly energy sources. The CONCERTO initiative, launched by the European Commission, is addressing the challenges of creating a more sustainable future for Europe's energy needs by applying integrated approach towards Energy Efficiency measures combined with the increased use of Renewable Energy Sources on a local level. Currently, nine projects and their communities are carrying out demonstration activities.

The term "polygeneration" means an energy supply system, which delivers more than one form of energy to the final user, for example: electricity, heating and cooling can be delivered from one polygeneration plant. Polygeneration can involve combined co-generation (power and heat) or tri-generation (power, heat and cold) plants and /or district heating, preferably by renewable energy sources. Such polygeneration systems should be designed and controlled with a view to optimizing all relevant interactions between supply and demand. Their main benefit is in maximising the overall efficiency of the integrated system near the point of use. Polygeneration combined with efficient district heating and cooling may provide added benefits to a larger community. Secondary benefits may include improved reliability of the supply and distribution networks, arising from better interaction between producers and distributors.

This Conference is organized in the frame of the CONCERTO project "Energy networks in sustainable cities" POLYCITY to share the knowledge of the different CONCERTO projects on polygeneration updating on the latest development on the use of key technologies. The first day is dedicated to the implementation of the polygeneration plants in the CONCERTO Projects such as the three sites of the POLYCITY project: Ostfildern - Stuttgart, Arquata-Torino and Cerdanyola del Vallés-Barcelona, the SESAC site of Växjö, the TETRAENER site of Geneva, the Ecostiler site of Amsterdam, the three sites of the ECO-CITY project: Helsingborg/Helsingor and Trondheim, and the cRRescendo site of Viladecans. In the second day, relevant scientists will talk about new development of polygeneration technologies, their integration and also its application to different fields.

Professor Alberto Coronas,

Chairman of the Conference

General Information

Time and venue:

16 - 17 October 2007, Palau Firal i de Congressos de Tarragona, Arquitecte Rovira 2, 43001 Tarragona. (Spain).

Chairman of the Conference

Prof. Alberto Coronas, CREVER, Dep. Enginyeria Mecànica, Universitat Rovira i Virgili, Tarragona (Spain).

Scientific Committee:

Dr. Joan Carles Bruno, CREVER, Dep. Enginyeria Mecànica, Universitat Rovira i Virgili, Tarragona (Spain).

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