

## EUROPEAN CONFERENCE AND COOPERATION EXCHANGE ON SUSTAINABLE ENERGY SYSTEMS FOR BUILDINGS AND REGIONS 2005



From the 5<sup>th</sup> to 8<sup>th</sup> of October 2005 over 200 energy-experts met in Vienna in the Austrian Federal Economic Chamber, debating on the increase of system integration of renewable energy sources in buildings and regions. Over the four days the international audience was offered a noteworthy programme, including a reception at the city hall, a traditional Viennese dinner and a technical tour on “eco-buildings” in the end.



The second afternoon was shaped by cooperation exchange, organized face to face talks for institutions and companies to build contacts within a relatively short timeframe.



### Report about technical tour

At the technical tour on the 8<sup>th</sup> of October a group of 17 conference participants visited three recently finished eco-buildings in Vienna and near to Vienna with a focus on passive house standard, ecological building materials and integration of renewable energy sources.

The first visiting site was a passive hall of residence for students in the 3rd district of Vienna. Architect Eckehardt Loidolt (P.ARC) explained the facade concept in passive house standard as well as the inside layout of the building with a very well natural lighting system in the corridors. DI Michael Berger (teamgmi) continued with the building services engineering concept with decentralised small air handling units in every apartment for fresh air supply and heat recovery systems. To avoid overheating

EUROPEAN CONFERENCE  
AND COOPERATION EXCHANGE  
ON SUSTAINABLE ENERGY SYSTEMS  
FOR BUILDINGS AND REGIONS  
2005



in summer outside shading elements on the facade and a pre-cooling of the fresh air by base plate absorber have been foreseen.



Façade with outside shading elements



Daylight system in corridor

The second visiting site was the SOL4 office and seminar centre in Mödling. Ing. Johannes Stockinger (solar4you) led through the building and reported about the planning process and the construction phase. SOL4 is also designed in passive house standard with façade integrated Photovoltaic in the upper part of the building. Earth coupled heat pumps provide the energy demand for heating and cooling by activation of storage mass. A free cooling system, solar thermal collectors for hot water preparation and air handling units with heat recovery are also part of the energy performance. The whole building services are monitored by a building control system where the visitors had the possibility to see the current operating mode.



Technical tour participants in front of SOL4

The last visiting site was the first loam-passive office building in Tattendorf. Roland Meingast (natur & lehm) and Architect Georg Reinberg welcomed the technical tour participants and explained the building concept which combines energy efficiency and ecological building materials in a very innovative and appealing way. The building construction is made of prefabricated modules in passive house standard which only consist of loam, wood and natural fibre. Different building elements made of ecological materials as straw and flax insulation, hemp-loam plaster and compressed loam inside walls with natural fibre are part of the concept and can be visited on site.

EUROPEAN CONFERENCE  
AND COOPERATION EXCHANGE  
ON SUSTAINABLE ENERGY SYSTEMS  
FOR BUILDINGS AND REGIONS  
2005



Exhibition area with different ecological building elements



Meeting room

Finally, it was a very interesting day with detailed information about currently realised eco-buildings from the involved planning team and the participants of the technical tour, which was a very international group, requested further activities in this way.

Author: Anita Preisler