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➤ **ENERKEY PROJECT OFFICIALLY LAUNCHED IN JOBURG**

In November 2005 the **EnerKey** project was officially launched during a workshop in the Johannesburg Civic Center.

Around 60 participants from science, city administrations, companies and other stakeholders in urban energy issues attended the workshop, which was opened by the representative of the City of Johannesburg, Councillor Mally Mokoena and the Ambassador of Germany, Mr. Harro Adt.

The **EnerKey** project is a South African – German collaboration, which aims to develop pathways and implement projects to improve sustainability in the field of energy in the urban region of Gauteng, especially in the three Municipalities of Joburg, Ekurhuleni and Tshwane.



Project coordinators Harold Annegarn (UJ) and Ludger Eltrop (IER, Uni Stuttgart) together with representatives of Municipalities of Ekurhuleni, Ms. Deborah Ramalope, Joburg, Ms. Flora Mokgohloa, Stuttgart, Mr. Joachim von Zimmermann and Tshwane, Mr. Sam Mutswari.

The acronym **EnerKey** stands for the focus of the project on "*Energy as a key element of sustainable transformation*".

The project is based on an exchange of knowledge and experience between the energy departments of the municipal authorities of the Gauteng Region on the SA side and the City of Stuttgart on the German side. As well research institutions from SA and Germany, dealing with urban energy

topics are invited to collaborate under the project umbrella.

In a second meeting after the official project launch a set of five concrete project ideas have been developed where the collaboration could be started and filled with life (see below).

⇒ www.enerkey.info

➤ **NETWORK OF BMBF MEGACITIES PROJECTS**

The **EnerKey** project is one initiative within a network of worldwide 15 projects. The program was initiated by the German Ministry of Education and Research (BMBF) with the background that urbanisation increases worldwide enormously and affected countries may learn from each other how to master the processes and challenges of this development.

The 15 project initiatives cover large urban regions from Ürümqi in China, Hyderabad in India, Recife in Brasil to Addis Abbeba in Ethiopia, Dar es Salaam in Tanzania and Johannesburg, SA. The topics addressed in these projects range from water, energy, waste and food to infrastructure development or settlement strategies.

In May 2005 the project partners met a first time at the Metropolis 2005 summit in Berlin and in November 2005 all project representatives gathered in Berlin to establish a network and contact platform and exchange the experience in the launch of the projects. The meeting was also meant to improve the project management competences of the projects as representatives from politics, enterprises and research must be put under an interdisciplinary and intercultural umbrella, which is a special challenge to all involved participants.

⇒ www.emerging-megacities.org

⇒ www.metropolis2005.org



➤ THE ENERKEY PROJECT INITIATIVES

During the working session of the *EnerKey* launch meeting five project ideas were elaborated:

1. The **Residential Thermal Energy Project** shall develop, test and pilot improved thermal energy devices for residential buildings and settlements.
2. The **Schools Energy Efficiency Project** intends to increase the energy performance of school buildings (and other building types) combined with awareness raising and educational efforts. Currently a partnership between a school in Stuttgart and one in a Gauteng municipality will be established. At the same time EDP-tools for energetic optimization of buildings will be adapted and used to develop recommendations for optimal energetic and economic retrofit.
3. The **Scoping Study** for Integrated Energy Planning and Modelling aims to pave the way for collecting and evaluating data and develop strategies for an integrated energy concept for Gauteng municipalities.
4. The **Mobility & Traffic project** intends to model the mobility sector in terms of infrastructure, planning, air quality and emissions and link these to vehicle and transport activities.
5. The idea of the **Solar Water Heating Project** is to institutionalise the implementation of solar water heating systems by developing a business strategy and demonstrating metering technologies.

All project ideas are followed by a mixed SA and German group. Some activities may be performed short term under the present *EnerKey* umbrella, for other activities funds and support needs to be organized.

The project initiatives aim to develop new approaches as well as to support the implementation.

➤ WORLD URBAN FORUM III. IN VANCOUVER IN JUNE 06

From June 19-23 the III. World Urban Forum (WUF) will be held in Vancouver, Canada. The forum is a platform for cities to exchange knowledge and experience for sustainable development and transformation. The WUF was established by the United Nations to examine the rapid urbanisation and its impact on communities, cities, economies and policies. A major challenge will be to minimize poverty in cities and improve the access of the urban poor's to basic facilities such as water, energy and nutrition. Key issues of this years conference is the energetic situation of cities. The WUF gathers every two years, the last Forum took place in Sept. 2004 in Barcelona, Spain.

The BMBF megacities initiatives and possibly also the *EnerKey* project will be present at this conference to present their approach and follow the current discussion.

⇒ www.unhabitat.org/wuf/2006

➤ INFORMATION, ACTIVITIES, NEWS

EU-PROGRAM CONCERTO ON URBAN SUSTAINABILITY LAUNCHED

CONCERTO is a major EU initiative which supports communities in developing concrete initiatives that are both sustainable and highly energy-efficient. Communities supported by CONCERTO will be working towards a completely integrated energy policy, harmonising a substantial use of renewable energy sources with innovative technologies and systems to minimise energy consumption and to improve the quality of citizens' lives.

In two rounds communities and stakeholder groups could submit proposals for integrated energy projects. In the first call nine projects have been selected for funding, representing urban initiatives for improved and integrated communal energy concepts.

⇒ http://europa.eu.int/comm/dgs/energy_transport/rtd/concerto/index_en.htm

Project Partners



Energy Research Center ERC

De Wit Sustainable Options (Pty.) Ltd.



IER is a collaborative institute for the CONCERTO project POLYCITY, where the energy performance of three large urban areas in Germany, Spain and Italy in terms of energy efficiency and the use of renewable energies shall be optimised.

The German project is the Scharnhäuser Park in Ostfildern near Stuttgart, a former military area. Important measure in the Scharnhäuser Park will be the optimisation of a new biomass CHP plant. One of the targets is to use the residual heat for office cooling in summer. Furthermore, all buildings will be equipped with optimal heat insulation to minimise heat loss in winter.

Beside the Scharnhäuser Park also Cerdanyola del Vallès - a development area for 50.000 inhabitants north of Barcelona – and the Arquata district, a workers quarter in Turin shall be rehabilitated and energetically restored.

Each project is embedded in a network of regional Partners and further observer communities. This will guarantee a sustainable development of the projects and an effective exploitation of the results.

⇒ www.polycity.net

EXCHANGE OF EXPERTS BETWEEN JOBURG AND GERMANY AGREED

As an initial activity an exchange of students from the University of Johannesburg and the University of Stuttgart was agreed. Philip Goyns from UJ will initially come to Stuttgart and Cologne to learn to work with and master transport modelling tools.

Additionally a PhD program for modelling the bioenergy sector in South Africa is being prepared under a program of the VW-foundation.

On behalf of the South African German Alumni Association and with the support of the Goethe Institute in Joburg two experts in the field of 'Transport Efficiency' for the world Cup 2010 and 'Sustainable Housing' may be sent to SA in order to present recent developments in these sectors in Germany and Europe.

⇒ contact: Harold Annegarn

IEW WORKSHOP IN CAPE TOWN

The next meeting of the International Energy Workshop (IEW) will be held at the Arabella Sheraton Grand Hotel in Cape Town, SA, from 27-29 June 2006.

The IEW is a network of global energy experts who meet annually to discuss a wide range of topics, with particular emphasis on global as well as world regional energy issues. The annual meetings focus on energy assessments and try to understand the reasons for diverging views of development in the energy sector. With the generous collaboration of the local hosts, the Energy Research Centre – ERC of the University of Cape Town, the IEW will have the unique opportunity to expand their network and take a closer look at Africa and its current energy issues, with a special emphasis on its efforts to achieve sustainable development, promote clean energy, and deal with climate change.

⇒ www.iiasa.ac.at/Research/ECS/IEW2006

ENERKEY EXPERIENCE EXCHANGE WORKSHOP IN STUTTGART

In summer 2006 the "Experience Exchange Workshop" in Stuttgart is scheduled in the framework of the *EnerKey* project. The aim of this workshop is to exchange knowledge and practice in the field of urban energy planning and energy management. Besides presentations also field trips are planned to visit interesting projects of communal energy management, energy efficiency and renewable energy production. No precise date has been fixed yet, as the funding is not secured at present. As soon as this is the case a date will be coordinated.

➤ ABOUT THIS NEWSLETTER

This newsletter is meant to be an exchange forum for all people interested in the *EnerKey* project. It will be published and distributed about 4 times a year in irregular intervals. If you wish to announce an event or inform about recent news and developments, please contact me whenever you like. With many regards and best wishes I remain,

Ludger Eltrop

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