

Invitation to the IEA-EUWP-Workshop:

# From Energy Efficient Buildings to Smart Cities: How to Address the Challenge of Urban Energy Consumption

March, 26<sup>th</sup> 2012 > AIT > Giefinggasse 2, 1210 Vienna

Co-operation Partner



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# **EUWP-Workshop >> From Energy Efficient Buildings to Smart Cities: How to Address the Challenge of Urban Energy Consumption <<**



Federal Ministry  
for Transport,  
Innovation and Technology

The future of the world will be decided in its cities. Already today, a majority of the global population lives in urban regions which generate a large portion of our welfare. They are engaged in a worldwide competition for quality of life, productivity and communications; they vie for investments and the “best brains”. At the same time, despite only representing 2 % of the world’s surface area, they are responsible for 75 % of the world’s energy consumption.

By 2050 a total of 9 – 12 billion people will live on our earth, 70 % of whom will be based in cities; this makes the number of future city dwellers as large as today’s whole world population and presents an unprecedented challenge to the efficiency of energy consumption in cities. The appropriateness and “smartness” of urban (energy) technologies will be key to the conditions of life of the vast majority of people on our planet.

Energy efficiency in cities can only be honed to the utmost degree, if, apart from bringing down the basic energy consumption of all actors, we can connect all producers and consumers of energy so that they work together in harmony. This will ask for computer-based intelligence in our appliances and grids, and finally enable us to make up for the intermittent nature of renewable energy resources into our power systems.

Until now research activities in the IEA and in member countries were focused on improving technologies to minimise greenhouse gas emissions. In the meantime activities of the Implementing Agreements (IAs) have changed from technologies to systems, from working separately to cooperation with other IAs. One example in the Working Party on End-Use Energy Technologies (EUWP) is the Buildings Coordination Group (BCG), where different IAs from different working parties meet for communication, information exchange and the establishment of joint projects, annexes.

In the case of a city the conditions are much more complex: besides the built environment energy supply, grids and transportation have to play an important role. And the main challenge will be to give customers a real choice in adapting to changes in their environment.

## **REGISTRATION:**

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## **Research-Cooperation International Energy Agency**

Austrian Federal Ministry for Transport,  
Innovation and Technology BMVIT  
Division of Energy and Environmental  
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### **Where**

**AIT – Austrian Institute of Technology  
Giefinggasse 2  
1210 Vienna**

### **When**

**Monday  
March, 26<sup>th</sup>, 2012  
10:30 till 17:00**

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## Programme >> March, 26<sup>th</sup>, 2012 > AIT > Vienna

### REGISTRATION AND INTRODUCTION

Chair: Hermann Halozan (EUWP)

**10:30 Registration and „Welcome Coffee“**

**11:00 Welcome**

Martina Ammer (CERT), bmvit  
Brigitte Bach, AIT

**11:20 The urban challenge**

Hans-Günther Schwarz, bmvit

**11:50 EUWP and the BCG**

Eva Slovakova (BCG), CZ MIT

**12:10 Discussion**

### SESSION 1: RAISING EFFICIENCY

Chair: Hermann Halozan

**12:20 From smart buildings to smart cities**

Isabella Zwerger (ECBCS), bmvit

**12:40 Mobility in a smart city**

Andreas Dorda (HEV), bmvit

**13:00 LUNCH BREAK**

### SESSION 2: ENERGY SUPPLY IN A SMART CITY

Chair: Martina Ammer (CERT)

**14:00 From conventional energy supply to on-site renewables**

Werner Weiss (RHC), AEE INTEC

**14:20 Heating and cooling in a smart city**

Hermann Halozan (EUWP), TU Graz

### SESSION 3: SMART GRIDS

Chair: Martina Ammer (CERT)

**14:40 The smartness of smart grids**

Wolfgang Hribernik, AIT

**15:00 DSM – enablers of smart cities**

Hans Nilsson (DSM), FourFact

**15:20 COFFEE BREAK**

### WORLD CAFÉ AND WRAP-UP

Chair: Hans-Günther Schwarz

**15:40 World café – How to address the challenge!**

**16:40 Wrap-up**

Peter Cunz, CERT  
Carlos LOPEZ-LOPEZ, EUWP  
Hermann Halozan, EUWP

**17:00 THE END**

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