



## **2nd International Conference - Passive House in Romania**

**The Passive House concept represents today's highest energy standard with the promise of slashing the heating energy consumption of buildings by an amazing 90%! Widespread application of the Passive House design would have dynamic impact on energy conservation. The passive house concept has started to take shape in recent years also in Romania. That is why REECO together with ISPE- Institute for Studies and Power Engineering and UPB - Politehnica University in Bucharest organizes the *2nd International Conference - Passive House in Romania*, on 11<sup>th</sup> November 2011, at the Palace Hall Bucharest.**

What is a passive house? A house with low heat transfer, which removes pollutants, and reduces sustainably the costs of maintenance, through energy saving. It assures a comfortable indoor climate in summer and in winter without needing a conventional heating system. The annual demand for space heating does not exceed 15kWh/ (m<sup>2</sup>a).

The passive house concept occurred for 15 years in Darmstadt, Germany; when - according to the plans created by Bott, Ridder and Westermeyer – the first house was built up this way. Over the last 10 years more than 6000 buildings in Europe – from single and multifamily residences, to schools, factories and office buildings – have been designed and built or remodelled to the passive house standard. A great many of these have been extensively monitored by the Passive House Institute in Darmstadt, analyzing and verifying their performance. Even governmental agencies have adopted passive house standards in their policy-making; also the European Commission has implemented a passive house standard.

In Romania, the project „Passive House Suitable for Romanian Climate" was developed in the framework of the National Plan for Research, Development and Innovation - INOVARE 2008, co-financed by the Minister of Education Research Youth and Sports through the Executive Unit for Financing Higher Education, Research, Development and Innovation (UEFISCDI). The project consists of building two residential passive houses, located in the Polytechnic University Bucharest, beneath the Energetic Faculty. The "passive house" standard was performed by using a specialized software PHPP (Passive House Planning Package) in collaboration with Passivhaus Institut in Darmstadt, Germany. The construction of the two passive houses is in advanced stage of completion.

The ***2nd International Conference - Passive House in Romania*** is one of the events caused by The International Passive House Days 11-13 November 2011, when the international days all over Europe run a wide action to promote the passive house concept. During this period there will be held conferences, seminars, technical visits for specialists visiting passive houses, which open their doors for this occasion.

The conference in Romania is organised by the Institute for Studies and Power Engineering – ISPE together with Politehnica University in Bucharest - UPB and REECO, in a series of knowledge and best practices sharing events within **RENEXPO® SOUTH-EAST EUROPE**.

The organisers intend to point out for the Romanian and foreign invitees steps forward made in the field since the last edition in 2009. The following topics will be

developed within an interactive environment, encouraging opened debates on energy efficiency and Directive 2010/31/EC implementation for increasing the buildings energy performance: Buildings' Energy Efficiency in Romania, Policies and Regulations, Supporting financial scheme for buildings energy efficiency projects, Passive House standard - PHPP - Permitting; Technologies and Solutions for public, commercial and residential, Success stories in Romania and Europe, Energy monitoring - Smart Metering Services any many others.

The **2nd International Conference - Passive House in Romania** will take place in the framework of the 4th energy trade fair of Romania, **RENEXPO® SOUTH - EAST EUROPE** where over 80 companies will exhibit for 3 days their products, during **9-11 November 2011**.

Further information about the biggest renewable energy event in Romania and South-East Europe, RENEXPO® SOUTH-EAST EUROPE and about the *2nd International Conference - Passive House in Romania* you can find under [www.renexpo-bucharest.com](http://www.renexpo-bucharest.com).

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**About REECO Group:** The organizer REECO RO Expozitiilor is part of the REECO Group with headquarters in Germany and subsidiaries in Salzburg, Austria, Brussels, Belgium, Warsaw, Poland, Budapest, Hungary and Arad, Romania. Since 1997, about 50,000 experts from 70 countries have attended the trade fairs and conferences organized by REECO. All trade fair dates on [www.energy-server.com](http://www.energy-server.com).