



### Welcome

Welcome to the first edition of the **GreenBuilding<sup>Plus</sup>** newsletter, which informs you about the recent developments of the European **GreenBuilding** Programme – the voluntary programme to improve energy efficiency in the non-residential building sector – and the supporting project.

### About GreenBuilding

The **GreenBuilding** Programme – initiated by the European Commission - aims at improving the energy efficiency and expanding the integration of renewable energies in non-residential buildings in Europe on a voluntary basis. With the GreenBuilding project the programme wants to motivate building owners to improve the energy efficiency and apply renewable energy technologies in their premises. The focus is laid on cost efficiency in a broad range of different technical disciplines.

The pilot phase of the **GreenBuilding** Project (2005-2006) supported by the European Commission's Intelligent Energy Europe Programme started in ten European countries. By the end of the two year pilot phase, a large number of new partners and endorsers have joined GreenBuilding, among them well-known companies and communities from all over Europe. The 2<sup>nd</sup> phase started in December 2007.

Up-to-date information can be found on the central project website [www.eu-greenbuilding.org](http://www.eu-greenbuilding.org). Additionally you can receive information in national language by contacting the National Contact Points in Austria, Belgium, Croatia, Finland, France, Germany, Greece, Italy, Portugal, Slovenia, Spain and Sweden.



[For more information click here](http://www.eu-greenbuilding.org)

### New National Contact Points

Since the start of GreenBuilding<sup>Plus</sup> two new National Contact Points are operating in behalf of the programme: "Cenergie" in Belgium and "EIHP" in Croatia:

*Cenergie* is an independent Antwerp based engineering and consulting company focused on energy efficiency. With its 26 highly skilled engineers and experts, it is since 1997 market leader in its domain in the Belgian market of offices and buildings. It is involved in activities including consultancy, realization of projects and applied research in the domains Energy management, Sustainable building and Renewable energy ([www.cenergie.be](http://www.cenergie.be)).

The 'Hrvoje Požar' Energy Institute (EIHP) launched its activities in October 1994. It is a multidisciplinary institution, which employs electrical engineers, professionals for gas and petroleum, mechanical engineers, economists, ecologist, geologist, architects and legal experts. The Department for Renewable Energy Sources and Energy Efficiency is an integral part of the EIHP, and its activities include preparation of renewable energy legislation for Croatian government, implementation of research and demonstration projects, conducting market studies, energy audits, related public opinion surveys, participation in international R&D projects as well as in community actions in Croatia ([www.eihp.hr](http://www.eihp.hr)).

### GreenBuilding Award

The GreenBuilding award ceremony was held in April 2008 in Frankfurt in context of the Lighting & Building conference and Fair and involved about 100 people (GB-Partners, GB-Endorsers, journalists, participants to the conference and fair).

Paolo Bertoldi (JRC, head of the GreenBuilding Programme) ran the ceremony. In the two categories *Partners* and *Endorsers*, diplomas were given to the all national winners of the awards. Beforehand every National Contact Point had chosen one GB-Partner and one GB-Endorser from its country to be

awarded. E.g. Mr Bertoldi awarded the Italian GB-Endorser Rockwool Italy (Ing. Caterina Rocca) for its action in promoting energy efficiency in the building industry and in the community of designers and planners and in supporting one of the Italian partners (Provincia di Venezia).



From Spain the company *La Lavola* received the GB Partner Award. *La Vola* is an environmental services company, which offers services within consulting, engineering, communication and education. They had become the first Spanish GB Partner with their headquarter *L'Ecoedifici*, an office building located in Manlleu, province of Barcelona.

[For more information click here.](#)

### Examples of new Partners

The Skanska Commercial Development Nordic (SCDN) was recognized as GB Partner with its building "Hagaporten 3" in January 2008. Hagaporten 3 is an office building situated in Solna outside of Stockholm. The total building area is 49.000m<sup>2</sup> including the garage. The lettable area is 28.200m<sup>2</sup>. The building ranges from three



levels garages below ground level and seven floors offices above ground level. Construction work will be finalized in 2008.

District heating and cooling supplies the

building with energy for heating and cooling. The envelope is well insulated. There are four large air-handling units equipped with liquid connected to a heat recovery and a pre-heating coil which also supplies the zone coolers with free cold water. The ventilation system is designed for low velocity and reduced drop of pressure that way minimising the fan's electricity consumption. The condenser heat from

the kitchen chiller heats the garage floors below the building.

The calculated energy consumption for Hagaporten 3 is 85 kWh/m<sup>2</sup>a – the maximum energy consumption according to the Swedish building standard would be 114 kWh/m<sup>2</sup>a

In the beginning of 2008 THS Corporate Group was awarded GreenBuilding Partner. Due to its expansion and the increasing number of employees, the THS Corporate Group had a demand for a larger administrative building. They chose the core ensemble buildings at the former colliery. The original construction concept of a curtain wall steel frame construction with brick filled half-timbered fields was transcribed. The suspended modules either bear a



field or a window field. The wall fields have a visually and acoustically designed inner surface or an insulation panel, an air layer and a supporting

plate with a brick belt. The windows are superinsulations countercash windows. The pit gas that was released before the reconstruction is now used for the energy supply of the new headquarters.



In addition to the combined heat and power plant the energy needed for heating the office buildings is provided by a facade and floor heating, convectors and panel radiators. A mechanical ventilation system with heat recovery and energy efficient air-conditioning systems provide fresh air, decent temperatures and a comfortable humidity level.

The energy demand for heating and warm water was reduced from 318 kWh/m<sup>2</sup>a to 65 kWh/m<sup>2</sup>a.



### New GreenBuilding Endorsers

Currently 28 **GreenBuilding** endorsers support the **GreenBuilding** Programme, assisting potential and already accepted **GreenBuilding** partners in their efforts to reduce the energy consumption in their non-residential buildings.

We present the following new endorsers from Germany and Sweden:

For 12 years the planning agency ENTECH (<http://www.planungsbüro-entech.de>) has been carrying out independent energy consultancy as well as physical and energetic quality assurance. The team consists of accredited and certified energy consultants (architects, engineers and physicists). ENTECH has become GB-Endorser supporting the German GB-Partner NCC GmbH with the energy concept for its [new office building](#).

The ÅF Group has endorsed Skanska to be a GreenBuilding partner during the mutual project regarding energy management, design and construction of the Building Hagaporten 3 in Solna near Stockholm.

The ÅF Group ([www.afconsult.com](http://www.afconsult.com)) is a leader in technical consulting, with expertise founded on more than a century of experience. They offer highly qualified services and solutions for industrial processes, infrastructure projects and the development of products and IT systems. ÅF has 100 employees working with energy efficiency.

Today the The ÅF Group has approximately 4,000 employees. Their base is in Europe, but our business and our clients are found all over the world.

ÅF is planning to endorse Stockholm's house of Culture in their work towards becoming a GreenBuilding Partner in 2009.

### The National Contact Points

The organisations listed below represent the **GreenBuilding** Programme in 12 European Countries. Please click on the country name to access the respective National Contact Point's **GreenBuilding** website in national language:

<a href="#">Austria</a>	Austrian Energy Agency
<a href="#">Belgium</a>	Cenergie
<a href="#">Croatia</a>	EIHP
<a href="#">Finland</a>	Motiva Oy
<a href="#">France</a>	ADEME, in collaboration with ARMINES
<a href="#">Germany</a>	German Energy Agency (dena) Berliner Energieagentur
<a href="#">Greece</a>	CRES
<a href="#">Italy</a>	eERG
<a href="#">Portugal</a>	ADENE
<a href="#">Slovenia</a>	Jozef Stefan Institute
<a href="#">Spain</a>	CREVER
<a href="#">Sweden</a>	Swedish Property Federation
<a href="#">Europe</a>	European Commission, Joint Research Centre

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