

**WE ARE** an association of businesses and other organisations involved in the built environment.  
**OUR MISSION** is to educate, connect and lead Montenegro towards its ecological objectives.

Join us! [Become a member.](#)

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**16-20 Sept 2013**  
World Green  
Building Week

**September 2013**  
Launch of *Green Building Professional Certificate* course in Montenegro

Find out more

[www.gbc.me](http://www.gbc.me)

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APRIL 2013

## DID YOU KNOW?

Buildings, where we live and work, are one of the greatest polluters in the world!

They are responsible for:

17% of fresh water use

25% of wood harvest

33% of all CO2 emissions

40 – 50% of material and energy use

Dear Reader,

The month of April was committed to marking the Earth Day, and the importance of the natural environment we are all part of. GBC ME used this opportunity to announce its participation in the **LEGEND project**, funded by the IPA Adriatic Cross Border Cooperation Programme, aimed at promoting geothermal energy in Montenegro and the Adriatic region. See below for more details.



## STUDENTS SEE THE BENEFITS OF GREEN BUILDING

In line with its Mission to educate society GBC ME presented the LEGEND project and the benefits of green building at the *Round table: Advantages of green building on local and international market*, which took place in Podgorica on 25<sup>th</sup> April. The event was organised by the [University 'Mediterranean'](#), Montenegro Business School.

Partnership is the new codex of successful business in the 21<sup>st</sup> Century. Our members are a part of a professional network supporting development and green building in Montenegro and beyond. On the 26<sup>th</sup> April we marked the Earth Day at a networking cocktail event at the Yacht Club, Porto Montenegro in Tivat, where we presented the Business Case for Building Green, a comprehensive report produced by the [World Green Building Council](#).





### Professor Dušan Vuksanović becomes Dean of the Faculty of Architecture Podgorica

Professor Dušan Vuksanović dipl.ing.arh, a founder and Board member of the Montenegro Green Building Council, has taken on the role of the Dean of the Faculty of Architecture Podgorica. His mandate will last until 2016 during which time he will focus on implementation of the Tempus RESEARCH project. The aim of the project is to transform the curriculum to a 5 year program, which will be nationally and internationally accredited and to become a full member of the European Association for Architecture Education. This will give students from Podgorica greater chance of employability across Europe and beyond.

In the past, the Faculty of Architecture has taken part at the Architecture Biennale, with projects such as *'Recycling space'* (2012), as well as exhibited locally (see *'Waste is a resource'* 2013). Promotion of sustainable development is an important aspect of the Faculty, where relevant subjects include *Physics of architecture*, *Bioclimatic architecture* and *Ecology of the urban environment*, as well as a Masters degree in *Bioclimatic and energy efficient architecture*.

### UNDP Montenegro offer solution for *Legalization of Informal Settlements in Montenegro*

'It is estimated that there are around 100.000 illegally constructed objects in Montenegro. In addition, the country is faced with serious budget problems, the solution of which, among other things is seen in reducing the salaries of employees through various instruments. On the other hand, the costs of living are significantly above the disposable budget of households. After revision and demonstration through the prototype, and the repeated reviews after reconstructions, the following conclusion was reached regarding the possibility for Energy Efficiency retrofitting in informal settlements: **on average, a € 5,000 investment is needed for retrofit of a 100 m<sup>2</sup> house, which creates annual energy savings of 63% on average (investment payoff around 6 years)**'. For full report visit [UNDP Montenegro](#).



Ecohouse Risanis slowly but surely moving along with building their *Passive House* in Risan, Montenegro.

Read [the main website](#) and [Anke's blog](#)



### Clean up of the bay and sea bed in Tivat



On 27th May, Porto Montenegro, GBC ME Platinum member, supported and joined cleaning up of the local area, activity organised by the Tivat Municipality. Volunteers collected 15 cubic meters of rubbish, which is noticeably less than in previous years showing positive impact of environmental awareness in the community. [Read more](#)

## WHAT IS LEGEND PROJECT



*The visit to HERA District in Ferrara (Italy) during the Kick-off meeting in December 2012*



This project is co-funded by the European Union Instrument for Pre-Accession Assistance

The project was officially launched on 11th and 12th December 2012 with a kick-off meeting in Ferrara. Its overall objective is the promotion of energy efficiency concepts and the low-enthalpy geothermal energy benefits in the Adriatic area through:

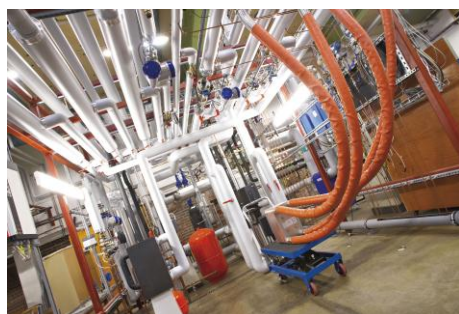
- **10 demonstration cases** utilizing GCHP in public buildings of Italy, Croatia, Albania, Montenegro and Bosnia-Herzegovina
- **SWOT analysis pre-investment surveys and Life Cycle Analysis methods** to support the public administration to choose the most effective and environmentally-friendly heat pump technologies
- **Thematic workshops** to increase the knowledge among principal public and private stakeholders over the most representative best practices in GCHP technology at European level for residential, public and industrial buildings
- **Technical seminars** to enhance the know-how in GCHP techniques and skills of all relevant actors (energy managers and specialized stakeholders from public and private sectors)
- **Political and technical memorandum and guidelines** to harmonize normative frameworks, to improve a better understanding of GCHP benefits and promote investments of geothermal energy in public and private sectors.

Capitalizing on the results of GEO.POWER, VIGOR and SEAR projects, LEGEND, acronym for **Low Enthalpy Geothermal Energy Demonstration** cases for Energy Efficient building in Adriatic area, is an European project, co-financed by the IPA Adriatic Cross-Border Cooperation Programme and led by the Province of Ferrara (Italy) that has almost 30 years of experience in exploiting geothermal energy and raising awareness of citizens about this topic.



*One of the schools interested in demonstration cases (Sant'Egidio alla Vibrata – Teramo – Italy)*

WHAT IS LEGEND PROJECT



Geothermal energy is one of the most environmental-friendly and cost-effective energy resources in use and has the potential to help mitigate global warming if widely deployed in place of fossil fuels. Recent technological progresses, the variability of cost and the difficult of oil and gas supply, the need to reduce of fossil fuel to cut pollution

and our reliance on supplies from foreign countries have made the exploitation of geothermal energy, especially low-enthalpy power generation utilizing GCHP (Ground Coupled Heat pumps) an attractive and viable alternative., This is especially for applications such as home heating and cooling, and opens a potential for widespread exploitation, so as to curb energy consumption of residential buildings, industries and SMEs.

Since it is not dependent on the presence of hot-water deep basins, the low enthalpy power generation utilizing GCHP can be exploited everywhere, with the help of a ground-source heat pump f using borehole heat exchangers.

### **ENCOURAGING GCHP STRATEGIES IN PUBLIC BUILDINGS**

40% of the energy consumption (and 36% of Green House Gas emissions) produced in EU is absorbed by public and private buildings. In this share, 2/3 of the energy consumption is used for heating and cooling purposes. This means that buildings, along with transport and industry, represent one of the crucial sectors concerned by strategies to save energy and to reduce GHG emissions to tackle the 20-20-20 EU objectives for the «sustainable use of resources».

Public buildings can give a good example, also considering that 12% of the European building stock is owned by public authorities. The Directive 2012/27/UE, issued on 25<sup>th</sup> October 2012, pushes public administrations to invest resources to achieve at least the minimum energy performance requirements that it has set in the Directive on Energy Performance on Buildings (2010/31/EU).

However, the potential of geothermal energy and heat pump technological applications, are not yet not disseminated as they should be across policy makers and private operators, mainly due to fragmented legislation and the lack of concrete demonstrative case studies. This is evident above all in the Adriatic area, where GCHP markets are still at an early stage.

Basically, in the Adriatic region there is the need for pilot applications, since they can objectively demonstrate the efficient GCHP contribution to RES and so can encourage the GCHP market.

## WHY LEGEND?

LEGEND launches the largest geothermal energy investment campaign ever done in the Adriatic euro-region with the purpose of promoting of the use of GCHP technologies to strengthen its applicability for energy savings and environmental purposes. Here, knowledge exchange with the Balkan countries, physical energy requalification of public buildings and a strong marketing strategy should lead to a better awareness of the geothermal energy in the concerned regions and can encourage green-market, technological development and public & private investments.

## WHAT IS EU IPA ADRIATIC CBC PROGRAMME



The EU IPA Adriatic Cross-border Cooperation Programme is the result of joint programming work carried out by the relevant participating countries and is part of the cooperation process in the Adriatic area. ([www.adriaticipacbc.org](http://www.adriaticipacbc.org))

The Programme draws its strength and incisiveness from the wide experience, gained during the previous Programme period producing concrete results from the studies and analysis financed in the past.

Many factors make cooperation in the Adriatic area important today, particularly from a political and economic point of view:

- Factors connected to geographic and cultural proximity which make possible the intensification of multilateral relationships among Adriatic coastal regions to support local processes of harmonious growth, sustainable development and unity among peoples.
- Factors connected to the political stability of the area. Following ten years of conflict, the area is now moving towards progressive integration both "vertical" (within European and International institutions) and "horizontal" through the creation of a free trade area.



## UK GBC leads the *ECOBUILD the future 2013*

[ECOBUILD](#) took place in London in March 2013 with over 850 companies exhibiting at the event. It is the largest showcase of sustainable construction products in the world. It is where the industry comes together to keep up to date on the latest developments. Its lead supporters, and members of the **World Green Building Council** are the [UK Green Building Council](#) and [BRE](#), who presented new developments for sustainable education.

Paul King, CEO of the UK GBC and Chair of the GBC [Europe Regional Network](#), stressed the success of past activities across the GBC membership and the need to further work together to achieve high reaching aims:

“A real highlight of the last quarter was a great event in Brussels, focusing on the need for member states to develop far-reaching **Renovation Strategies** to comply with **Article 4 of the Energy Efficiency Directive** by the end of April 2014. What might sound like a rather dry topic is actually a hugely powerful opportunity to galvanise action, to exploit the economic regeneration potential of revolutionising the energy efficiency of our existing building stock, to achieve **80% reductions in carbon emissions by 2050, against a 2010 baseline.**”

## EU strengthens its move towards environmental policy developments

The European Union is embedding environmental safeguards further into its policies and strategies. ‘Investing in green infrastructure will bring multiple returns to nature, society and people’ Commissioner for Environment, Janez Potočnik said [Read more](#)

Europe Regional Network Policy update is available [here](#).



## WHAT IS WORLD GREEN BUILDING COUNCIL?

World Green Building Council released a new, inspirational film explaining the development of the green building industry, the GBC network, its impact and mission. Some facts:

- there are 93 Green Building Councils, one per country
- its network involves 25000 companies and organisations globally
- 700 staff are employed locally by GBCs
- GBC network is supported by 35000 volunteers in companies across the world
- 300 000 people attended GBC courses across the world
- 10% of world GDP comes from sustainable business globally, which employs 10% of the global workforce

World Green Building Council is about people! Watch the short film [here](#).

## COURSES IN MONTENEGRO

### Green Building Professional" - Certification & Training Programme

The programme requires passing ten courses; eight of which are compulsory and two can be chosen by the participant from a list of four courses. The programme is designed specifically to ensure cross-training between different disciplines, as more efficient collaboration is a critical factor in delivering successful green building projects. The courses will include both theory and practice from experts who are active domestically and internationally.

#### Components for Green Building Professional Certificate

1. Creating and Managing Greener Workspaces	6h	mandatory
2. Green Design Principles	6h	mandatory
3. Financial Considerations of Green Building	6h	mandatory
4. Legal Requirements & Voluntary Certification for Green Building	6h	mandatory
5. Sustainable Materials & Resources	6h	mandatory
6. Managing Green Building	6h	mandatory
7. Sustainable Site Selection and Management	6h	mandatory
8. Lighting Design & Smart Buildings	6h	mandatory
9. Building Envelopes of Green Buildings	4h	optional
10. HVAC & Hot Water Solutions	4h	optional
11. Sustainable Landscape & Exterior Design	6h	optional
12. Cradle to Cradle for Buildings	4h	optional
13. Water Management	?	optional

For more information about our rates and discounts contact us via [www.gbc.me](http://www.gbc.me)

KNOWLEDGE IS POWER!

# UPCOMING EVENTS

12 JUNE 2013	ETG Grupa i TECE presentation <a href="http://www.etggrupa.me/">www.etggrupa.me/</a>
JUNE 2013	Third European Geothermal Review Mainz, Germany <a href="http://www.bestec-for-nature.com/j_bestec/tegr/">www.bestec-for-nature.com/j_bestec/tegr/</a>
	AGC presentation Montenegro <a href="http://www.agc-glass.eu">www.agc-glass.eu</a>
5 - 11 AUGUST 2013	Ekofest Herceg Novi, Montenegro <a href="http://www.ekofest.me">www.ekofest.me</a>
SEPTEMBER 2013	Launch of the Green Building Professional Certificate Montenegro <a href="http://www.gbc.me/education">www.gbc.me/education</a>
	9th International Geothermal Conference Freiburg, Germany <a href="http://www.geothermiekonferenz.de">www.geothermiekonferenz.de</a>
	2nd European Congress on Enhanced Geothermal Systems ICEGS 2013 Potsdam, Germany <a href="http://www.icegs.eu">www.icegs.eu</a>
	Sustainability Forum, Bulgaria Green Building Council Sofia, Bulgaria <a href="http://www.bgbc.bg">www.bgbc.bg</a>
16 -20 SEPTEMBER 2013	World Green Building Week <a href="http://www.worldgbc.org">www.worldgbc.org</a>
25 - 29 SEPTEMBER 2013	Civil engineering and Energy Fair Budva, Montenegro <a href="http://www.adriafair.co.me">www.adriafair.co.me</a>

Our e-newsletter is distributed to over 500 national and international addresses, including companies and business, government and European Union institutions and individuals and is available to 35000 companies that are part of the World Green Building Council.

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