

**Second
announcement**

*International
conference*

Energy Management in Cultural Heritage



**Experiences from best practice cases in Croatia,
the EU and the world**

Technologies and methods

Legislative framework

Financing

Education

6-8 April, 2011, Dubrovnik, Croatia



Organizers:**UNDP Croatia- Removing Barriers to Energy****Efficiency in Croatia (EE Project)****with****GTZ Open Regional Fund (ORF-E)****UNESCO - Venice Office****Ministry of Economic Development of Italy****UNDP BiH****The Environmental Protection and Energy Efficiency****Fund of Croatia****Croatian institutions****Ministry of Economy, Labour and****Entrepreneurship****The Croatian Architects' Association****Partner cities****The City of Dubrovnik, Croatia****The City of Venice, Italy****Confirmation expected from:****Dubrovnik-Neretva County****Venice Office**
Regional Bureau for Science
and Culture in Europe

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Background

The *project Removing Barriers to Energy Efficiency in Croatia (EE Project)* is a joint project of the Ministry of Economy, Labour and Entrepreneurship (MELE) and the United Nations Development Programme (UNDP) in Croatia. It is implemented with the support of the Environmental Protection and Energy Efficiency Fund (FZOEU) and the Global Environment Facility (GEF). The main goals of the project are the implementation of a continuous and systematic model of energy management, strategic energy planning and sustainable energy resource management in cities and counties, and buildings owned by the government of the Republic of Croatia. The EE Project deals with public buildings by implementing two complementary projects- the project *Systematic Energy Management in Cities and Counties of the Republic of Croatia (SEM)*, which focuses on local and regional self-government buildings, and the *Bringing your own House in Order (HIO)* programme, whose aim is to increase energy efficiency in state administration buildings. The experience has shown that approximately 25-30% of public buildings are protected and as such are considered cultural heritage.

It will be particularly challenging to overcome a number of barriers to implementing energy efficient

technologies and measures in cultural heritage buildings. During building restoration projects, the principles and standards of cultural heritage protection are fully implemented. However, the challenge remains on how to harmonize the interests and requirements of experts in cultural heritage protection with the demand for greater energy efficiency, i.e. for a reduction in the maintenance costs of cultural heritage buildings and their impact on the environment. Modifications are normally kept to a minimum in order to preserve the buildings' historical value. However, certain adaptations should be implemented in order to ensure overall thermal comfort and indoor climate required by the buildings' end-users.

This conference will provide a unique opportunity to present case studies of renewed cultural heritage buildings and settlements that show that a successful compromise can be reached between the requirements of conservation departments and those for sustainable development, all in accordance with current trends and regulations in energy efficiency. The event presents an ideal opportunity to exchange experiences and knowledge, and to prepare the foundation for closer cooperation in the region and the EU.

The legislation whose aim is to successfully combine energy efficiency with cultural heritage protection is scarce or non-existent. Hence this conference is a unique opportunity to present guidelines to successfully combining these two domains.

The Best Practice Guidebook to energy management in cultural heritage will be published at the conference. It will compile a number of successful case studies demonstrating congruent implementation of the requirements of cultural heritage protection and greater energy efficiency.

Conference goals:

- to promote best practices and standards in the field of energy infrastructure reconstruction, upgrading and energy efficiency in general in cultural heritage buildings;
- to provide education on the efficient maintenance of cultural heritage buildings in order to increase their energy efficiency;
 - to raise awareness on the contemporary methods of protecting and restoring cultural heritage;
- to link various concepts in the fields of energy efficiency, energy management and environmental protection with principles of cultural heritage protection;
- to promote sustainable cultural heritage management;
- to disseminate information on new materials and technologies in the field of cultural heritage buildings protection (or conservation) by taking into consideration sustainable development and energy protection;
- to promote cultural heritage protection and energy efficiency as a method of economic development;
- to prepare guidelines for future restorations of cultural heritage buildings, urban sections, small settlements and protected city centres;

Join us!

Energy efficiency in the building sector is a fully adopted practice. Nevertheless, the need to maintain and improve energy efficiency in buildings categorized as cultural heritage still exists. Our goal is to create synergy between cultural heritage protection and the need to improve energy efficiency, all in an open and interactive manner, and based on gathered experiences.

Join us at this distinctive Conference that will take place in Dubrovnik, in April of 2011.

- to establish greater regional cooperation in the field of energy efficiency in cultural heritage buildings, urban sections, small settlements and protected city centres.

Who is the Conference for?

The Conference is intended for all decision makers and experts who could stimulate further development in this area based on completed energy efficiency projects in cultural heritage buildings in Croatia, the region and the world:

- representatives of cultural protection departments and related institutions;
- representatives of local and regional government units.
- representatives of energy offices within government owned buildings, as well as local and regional governments;
- architects and other engineers in the construction industry;
 - mayors and county prefects;
- owners and managers of buildings and sites classified as cultural heritage;
- restoration contractors;
- urban planners and decision makers in the field of building construction and environmental protection;
- consultants and other experts from the field of cultural heritage protection.

Within the Conference...

...invited speakers!

During the Conference, invited experts from the region and the EU will present experiences attained while developing and completing the aforementioned case studies. Unique topics will be featured, and participants' questions answered by experts involved in energy management projects in cultural heritage buildings that were implemented in the region and the EU. The experts will clarify in detail the technical background of each project, the legislative and financial framework, as well as how to plan and implement similar projects.

...exhibitions!

Companies from the region, Germany, Italy and other EU countries that provide products and services that were applied in recent successful solutions in energy efficiency will present their products at the exhibition. Participants will get first-hand information on what has been applied in practice.

...presentations!

The technical part of the Conference, consisting of invited speakers and professional workshops, will provide hands-on knowledge necessary for further work in the sector of energy management in cultural heritage. In addition, the *Best practice guidebook to Energy Management in Cultural Heritage Buildings* will be presented for the first time at the Conference.

...business gatherings!

The welcome cocktail will provide a pleasant opportunity to relax, meet people, and to engage in business discussions and in an exchange of experiences with other colleagues from various cities and/or local and regional governments and countries

Furthermore, our guest speakers will be at hand to provide any additional information.

...social events!

The social events calendar includes the following:

- the opportunity to talk to workshop supervisors and speakers;
- social events in the evening – the cocktail party and gala dinner.

Overview of Conference topics

The Conference will provide an overview of activities necessary for energy management in protected city centres, urban sections, small settlements and cultural heritage buildings - from energy audits that establish the exact condition of the building, to developing measures that increase energy efficiency, to financing and sustainable management, and finally, to applying in practice all of the aforementioned measures. Various technologies and services used in the projects will be discussed, ranging from simple solutions to complex energy management systems. Some of the topics encompass:

CULTURAL HERITAGE BUILDINGS AND URBAN SECTIONS

- examples of best practices in improving energy efficiency in cultural heritage buildings and urban sections;
- the implementation of renewable energy sources in cultural heritage buildings and urban sections;
- energy audits of cultural heritage buildings and urban sections;
- energy certification of cultural heritage buildings;
- the application of state of the art technologies in measurements and analysis of the existing conditions of cultural heritage buildings and urban sections (such as thermography)
- problems and challenges: the improvement of conditions- increasing thermal comfort in

- cultural heritage buildings and urban sections (the installation of heating, ventilating and air conditioning systems);
- the implementation of automation systems in cultural heritage buildings and urban sections;
- the mounting of modern installations, heating and cooling systems in cultural heritage buildings and urban sections;
- the application of new materials in the restoration of cultural heritage buildings and urban sections.

PROTECTED HISTORICAL CITY CENTRES AND SMALL SETTLEMENTS

- planning and management in protected historical city centres and small settlements from the energy viewpoint;
- the reconstruction of energy systems in protected city centres and small settlements;
- the installation of split air conditioners in protected historical city centres and small settlements– How to cool buildings?
- public lighting systems in protected city centres and small settlements.

LEGISLATION AND FINANCING

- recommendations on how to prepare guidelines for an energy-efficient restoration of cultural heritage buildings, urban sections, small settlements and city centres;
- the role of Conservation departments in the process of restoration and application of energy efficient technologies in cultural heritage buildings, urban sections, small settlements and protected historical city centres;
- models of financing projects that improve energy efficiency in cultural heritage.

All of the above will be followed by some concluding Conference remarks, a presentation of the *Best practice guidebook to Energy Management in Cultural Heritage Buildings*, the press conference, as well as sponsorship presentations and excursions.

Some of the best examples of Mediterranean architecture, its diversity and beauty can be found in UNESCO's protected city centres of Dubrovnik and Venice. The organizers have chosen Dubrovnik as the location for this conference for it will provide the perfect opportunity to comprehend and deal with this particular subject, thus incorporating sustainable city management in UNESCO's protected surroundings.



Key dates

Deadline for the submission of abstracts:

6 December 2010

Deadline for the submission of full papers:

20 January 2011

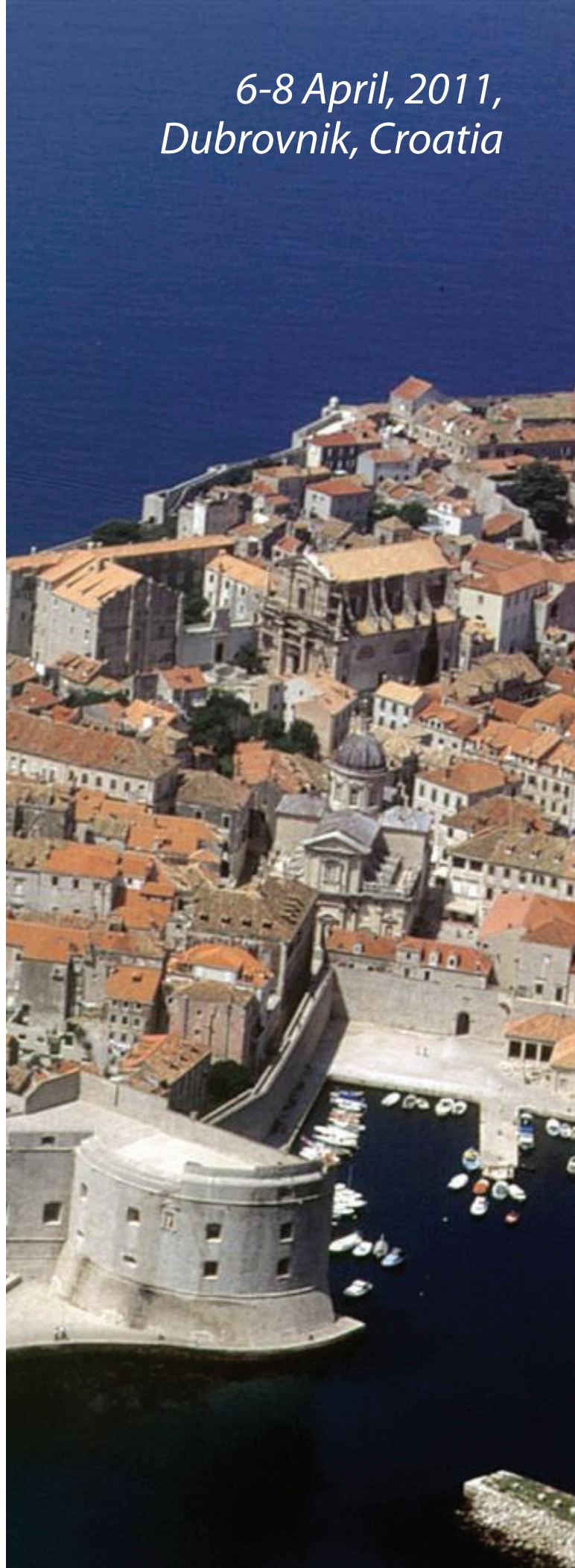
Early registration deadline:

20 January 2011

Registration deadline:

20 March 2011

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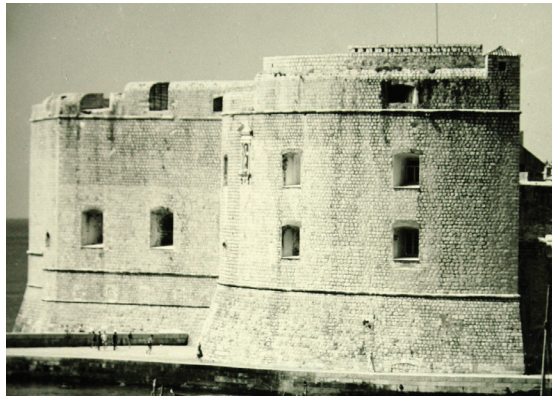
The official conference language is English with simultaneous translation in Croatian.



House in Order



*6-8 April, 2011,
Dubrovnik, Croatia*



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