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3ENCULT: on the podium between 335 European projects



Energy efficiency in buildings – also in historic ones – is on the top agenda in Europe. Not for nothing 3ENCULT has been selected by the European Commission as an example of best practice and included in the guide to the 2010 activity report of the Directorate-General for Research and Innovation.

For each subject area the guide contains only two of all the projects funded by the DG Research and Innovation. Under “environment”, the subject area 3ENCULT makes part of, projects on the list were 335, 67 of which started in 2010. The selection is however also an honour for the consortium, who drew up a convincing research project and presented already first results, and a commitment for the project, to trigger the widespread implementation of the developed solutions and continue the story of success.

Link to the [guide to the activity report](#)

Further information:

Alexandra Troi (EURAC) +39 0471 055600

Stay informed – new 3ENCULT newsletter available!



Interested in improving energy efficiency in historic buildings? Then subscribe to the new 3ENCULT e-newsletter on <http://www.3encult.eu/en/newsevents/newsletter>

At least twice a year subscribers will receive useful updates on technologies, tools, policies, events and current news.

Further information:

Maryke van Staden (ICLEI) +49 761 3689278

3ENCULT study tours and workshops for city representatives. Interested?



Are you a local decision-maker in a city / town council? Do you need to approve policies and regulations impacting on historic buildings? Interested in learning more about new technology developments and options for energy efficient renovation of monuments?

Send us an email to indicate your interest in:

- Study tours: Three (3) events are planned. The first one to take place mid-2012 in Copenhagen and/or
- Workshops for local governments: Four (4) workshops planned. Schedule under development

As soon as the schedule details are clear we can inform you on the event programmes. Contact: Maryke van Staden, Coordinator Climate & Air, ICLEI Europe – ccp-europe@iclei.org

Presenting 3ENCULT to local governments at ICLEI conference



Powering cities, district and buildings in focus at Local Renewables Freiburg 2011, with historic building renovation an area with multiple options for improved efficiency. Green buildings and the future of urban development are closely inter-linked. In Europe, this also means dealing with energy in historic buildings and city centres – and switching to more sustainable energy solutions. These elements are being explored at the Local Renewables Freiburg 2011 Conference organised by **ICLEI Europe** from 27-28 October 2011.

Local decision-makers, architects and engineers, representatives of the business, building and financing sectors will gather in Freiburg to discuss sustainable construction, local renewables and the (re)development of green efficient districts. All these aspects have huge potential to improve the overall quality of life in citizens,

and require an inter-connected approach. The **3ENCULT project** will be presented and discussed in a session focusing on urban renovation, as one of the main current projects on this topic funded by the European Commission's **7th Framework Programme**.

Date:
27.-28.10.2011, Freiburg/Germany

Further information:

For more information about this conference, please visit <http://www.local-renewables-conference.org/freiburg2011>. Presentations are also available on this website, specifically under the **programme**

Clever buying! Sustainable procurement in construction for public authorities



The SCI-Network (Sustainable construction and innovation through procurement) connects European public authorities looking to procure innovative and sustainable solutions within their construction projects. You are invited to join the activities, share your expertise and comment on recommendations (coming soon).

Five working groups are investigating best practice in different areas related to construction procurement:

- Environmental assessment tools
- Innovative technical solutions
- How to encourage innovation in construction procurement
- Life cycle/whole life costing
- Innovative financing and contracting approaches

Draft recommendations aimed at public authorities will be released soon. All public authorities (national and sub-national) and other construction experts are invited to review the recommendations - by email, phone or by participating in a network events.

The next meeting will take place in Freiburg on **26 October**, alongside the **Local Renewables 2011 Conference**. Budget may be available to cover staff time and/or travel expenses. For further information please contact simon.clement@iclei.org.

Current publications are available in the **SCI-Network Resource Centre**: <http://www.sci-network.eu/resources/> - with an **online Forum** for discussions. Join and share your views!

Case study visit in Potsdam in September 2011



In Potsdam, Germany, the Warehouse City Potsdam (“Speicherstadt Potsdam”) is a case study of the 3ENCULT project. This case explores the restoration of existing warehouse buildings (one is from 1688 – the oldest building in Potsdam!). These are almost completely conserved in their original building state.

The first building renovated – called “Schinkelspeicher” - is completed, with the first inhabitants already living there and the monitoring of energy use underway. The Persiusspeicher building is currently under renovation, reflecting a mix of historic building conservation where possible, combined with modern energy efficiency approaches.

These buildings were visited by the whole project consortium to explore the state of the art. The technical visit was led by Dr. Rudolf Plagge and Dr. Magdi Khalil of the [Institute of Building Climatology](#) at the Dresden University of Technology.

Date:

29.9.2011, Potsdam/Germany

Further information:

Magdi Khalil (TUD), phone: +49 351 463 35259

Exchange and training on cultural heritage preservation in Berlin



Exploring energy refurbishment in cultural heritage from different perspectives.

Berlin hosted the EWCHP-2011, European Workshop on Cultural Heritage Preservation and Training Day in late September 2011. **EWCHP** is an European Cluster Workshop on research and development activities in the field of cultural heritage and its preservation for future generations. The purpose of the workshop was to provide a forum for scientists, conservators, owners of cultural heritage properties and other experts who are involved in cultural heritage preservation.



The latest results from the ongoing European projects were presented, including SMooHS, Climate for Culture, CHIC, Stonecore, Musecorr, MEMORI and involvement of the

3ENCULT consortium. with a contribution by Christoph Franzen et alia on the experience with IR thermography in the diagnosis phase of 3ENCULT case studies.

Participants asked for the repetition of the valuable experience – the 2013 edition of the workshop might be hosted by 3ENCULT.

Date:

26.-28.9.2011, Berlin

Further information:

Alexandra Troi (EURAC), phone +39 0471 055600
Christoph Franzen (IDK), phone +49 351 48430 408

New Version of Passive House Planning Package (PHPP)



PHPP version 6.1 has recently been released by the Passive House Institute with a new feature to determine energy demand in refurbishment projects – developed in the 3ENCULT project.

The PHPP is the standard tool for design and certification of Passive Houses. PHPP version 6.1, newly released by the **Passive House Institute**, has a new feature developed within the 3ENCULT project. This allows designers to determine energy demand in renovation projects. A dropdown menu in the Verification worksheet offers the options “Passive House” or “EnerPHit” (Energy retrofit with Passive House components) for selection. The energy performance of the building in question is subsequently rated according to the corresponding certification criteria.

Further improvements, useful for refurbishments and new builds alike, include:

- Taking into account the parallel operation of up to 10 different ventilation systems
- Determining design of air flow volumes based on individual rooms
- A more detailed calculation of window thermal bridges
- A data import/export interface

At the core of the package are worksheets for heating energy balances (using annual demand or the monthly method), heat distribution and supply, electricity demand and primary energy demand. Within 3encult, the PHPP will be extended in order to improve the calculation of energy balances for historic buildings.

The new PHPP version is currently available in German only. The new English version will follow in early 2012.

Further information:

Zeno Bastian (PHI), phone +49 6151 82699 0
www.passivehouse.com

3ENCULT Workshop on Windows in Bolzano



Gaining an overview of typical problems with protected windows in the historic city centers.

Mrs. Kofler-Engl, director of conservation office South Tyrol and member of the Local Case Study Team from CS1 Public Weigh House Bolzano, showed typical historic windows – for example a box-type window in varnished spruce from the 19th century. The group discussed some examples of refurbished windows and recurrent problems in connection with energy refurbishment of protected windows, such as air - and weather tightness, condition of the weather board and coating options.

Date:

26.08.2011, Bozen-Bolzano/Italy

Further information:

Dagmar Exner (EURAC), phone +39 0471 055600

International Conference on energy management in cultural heritage in Dubrovnik



Alexandra Troi from the [Institute for Renewable Energy](#) is in Dubrovnik from April 6th to 8th to present projects on EURAC's research in the area of sustainable buildings and cultural heritage ([3ENCULT](#) and [Ansitz Kofler](#)). The "International Conference on Energy Management in Cultural Heritage" brings together actors from the domains of government, urban planning, environment and cultural heritage to promote energy efficiency and energy management in cultural heritage buildings.

The 3ENCULT project message was that European cities and towns – with their beautiful historic city centres – need to focus more actively on energy management in their cultural heritage objects, bringing local benefits and contributing to climate protection and sustainable energy use.

More details on both the presentation of the project itself and the potential impact of energy refurbishment of historic buildings in Europe are available in the [deliverables section of 3ENCULT website](#). Event [photos](#) and details available now.

Date:

Wednesday, April 6th, 2011 - Friday, April 8th, 2011, Dubrovnik

Further information:

Alexandra Troi (EURAC), tel. 0471 055600

CULTURAL HERITAGE PRESERVATION – THE NET-HERITAGE PROJECT



The artistic and cultural heritage of European cities draws tourists from all over the world. Can we preserve areas and improve energy efficiency at the same time?

Churches, museums and monuments are often not very well preserved. Further to this, climate change, natural disasters and pollution are also threatening the conservation of historical heritage. From 22 to 24 March 2011, in the framework of the European project [NET-HERITAGE](#) (European Network on Research Programme Applied to the Protection of Tangible Cultural Heritage), a conference was held in Brussels to present good practices in the preservation of cultural heritage. A special focus was also on ongoing projects and their impact on the economic development of a country.

On this occasion the project [3ENCULT](#) (Efficient Energy for EU Cultural Heritage) was presented by Christoph Franzen of the [IDK](#) (Institut für Diagnostik und Konservierung an Denkmälern in Sachsen und Sachsen-Anhalt e.V.). Members of 3ENCULT are involved in this discussion on how to overcome the fragmented funding policies for research in Europe and identifying common research priorities for the future.

Press release available [here](#).

Date:

Tuesday, March 22nd, 2011 - Thursday, March 24th, 2011, Brussels

Further information:

Christoph Franzen (IDK), phone: +49 351 48430 408

NEW PROJECT TO IMPROVE ENERGY EFFICIENCY IN HISTORICAL BUILDINGS



EURAC leads a new European project – 3ENCULT (Efficient Energy for EU Cultural Heritage) – 22 partners start working on 1 October 2010.

Renovating historic buildings to improve their energy efficiency – this is the main challenge the partners of the 3ENCULT project are dealing with. A combination of technical energy / building experts, companies, city planners, and monument preservation officers from 10 countries have joined forces in the 3ENCULT project, under leadership of EURAC. The kick-off meeting in Innsbruck on 1 October 2010 was combined with a press conference to explain [Innsbruck's involvement and approach to the topic](#).

In new constructions energy efficiency is today an essential criteria to reduce energy demand and optimise energy use in the building. However, Europe is an old established

continent with many historic cities and towns – with beautiful cultural heritage, including old and ancient buildings. Practicing energy efficiency in this context is more complex. Rules and regulations applying to new buildings are often not appropriate for these older constructions.

The renovation of historic palaces and other monuments rather needs a delicate touch and individualized approach. This will be explored in the 3ENCULT project – in detail by studying and identifying options in eight case studies across Europe. The expert group includes small and medium sized enterprises (SMEs) and large research institutes, conducting essential research and demonstration. Results will be shared – also videos and guidance material – across a wide target group.

More information on the [project website](#). Innsbruck press also shares [news](#) on project launch.

Date:

Tuesday, October 19th, 2010 - Thursday, October 21st, 2010, Innsbruck

Further information:

Alexandra Troi (EURAC), tel. +39 0471 055 602

Promoting a culture of sustainable energy



With the focus on climate change and mitigating our impact by changing energy use, we need to change our perception about energy and quality of life - by shaping a new culture of sustainable energy ...

ICLEI's Breakfast at Sustainability's (B@S) are innovative, informal workshops held in Brussels to inform local government and EU institution representatives on key issues relevant to European cities and towns. The City of Tallinn - [European Capital of Culture 2011](#) - hosted the workshop "Culture and Sustainable Energy" on 15 September 2010, sharing a range of interesting projects and activities on culture and energy.

Dr. Alexandra Troi, Vice Head of the EURAC [Institute for Renewable Energy](#)

presented the project 3ENCULT - Efficient Energy for EU Cultural Heritage - with a valuable overview of aspects to consider for energy efficient renovation of historic buildings. A debate on the role of culture in energy in European cities and towns was led by facilitator, Maryke van Staden who also leads [ICLEI Europe's climate activities](#). Presentations available [online](#).

Appointment:

September 15, 2010, 9.30 a.m. - 12.30, Brussels Office of Tallinn

For further information:

Maryke van Staden (ICLEI), phone: +49 761 368 9278+39 0471 055 600

PROJECT INFORMATION

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- » Deliverables

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