



Minutes to the mid-term dissemination workshop in Italy

Mo., 8rd May 2013 9.30 - 18.00

Milan Fair, Rho (MI), "Gemini" hall

D6.8 of WP6 from Entranze Project

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ENTRANZE Project

Year of implementation: April 2012 – September 2014
Client: EACI
Web: <http://www.entranze.eu>

Project consortium:

	EEG	Energy Economics Group Institute of Power Systems and Energy Economics Vienna University of Technology
	NCRC	National Consumer Research Centre
	Fraunhofer	Fraunhofer Society for the advancement of applied research
	CENER	National Renewable Energy Centre
	eERG	end use Efficiency Research Group, Politecnico di Milano
	Oeko	Öko-Institut
	SOFENA	Sofia Energy Agency
	BPIE	Buildings Performance Institute Europe
	Enerdata	Enerdata
	SEVEN	SEVEN, The Energy Efficiency Center

The ENTRANZE project

The objective of the ENTRANZE project is to actively support policy making by providing the required data, analysis and guidelines to achieve a fast and strong penetration of nZEB and RES-H/C within the existing national building stocks. The project intends to connect building experts from European research and academia to national decision makers and key stakeholders with a view to build ambitious, but reality proof, policies and roadmaps.

The core part of the project is the dialogue with policy makers and experts and will focus on nine countries, covering >60% of the EU-27 building stock. Data, scenarios and recommendations will also be provided for EU-27 (+ Croatia and Serbia).

This document includes the minutes of the mid-term workshop in Italy/Milan on 8th May 2013.

Acknowledgement:

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1. Overview

1.1 Date and location

The international conference was held on the 8th May 2013 in Milan from 9:30 to 18:00. It took place in the Gemini hall of the Congress Center “Stella Polare” in Fiera Milano-Rho. The Conference room Gemini accommodates about 204 people and is equipped with modern technical appliances.

1.2 Framework

The “end-use Efficiency Research Group of the Politecnico di Milano” (eERG-PoliMi) with the collaboration of “The Innovation Cloud”, a new vehicle for events dedicated to innovative energy technologies in the fields of smart grid, photovoltaic and renewable electricity, energy, e-mobility, renewable heat production and energy efficiency, organized the international conference.

The conference hosted also the International GreenBuilding Award 2013 in a dedicated section where 10 companies were rewarded for their efforts in enhancing energy efficiency in non-residential buildings.

1.3 Participants

146 people took part in the event. The list of participants is included in Chapter 3 of these minutes.

1.4 Main topics

The event started at 9:30 with opening statements from Prof. Lorenzo Pagliano, who is the director of the end-use Efficiency Research Group of the Politecnico di Milano (eERG-PoliMi) and the Dr. Paolo Bertoldi, who is in charge of the GreenBuilding Programme for the Joint Research Centre (JRC).

The morning session was moderated by Paolo Bertoldi. The first part of the programme focused on the definition framework for nearly/net zero energy buildings (Dr. Igor Sartori, SINTEF) and on a methodology to set a reliable scheme for effective and cost-optimal zero-energy buildings (Prof. Lorenzo Pagliano, eERG-PoliMi). A presentation of Entranze project activities were given. Particularly the first part the discussions it was focused on the comparative methodology to define the nZEB and cost-optimal area under specific assumption. It was showed examples of cost-energy dot plot graph and frontier curves to introducing the ways to reach the nearly zero energy building. In this occasion it was underlined the important role of the building renovation sector in the next years. In parallel, have been discussed on role of renewable sources in the definition of (net) Primary Energy. In particular on the definition of physical boundary in order to consider or not consider the contributions from solar, wind, biomass energy as renewable. An hot argument that was presented it was load matching from renewable source from solar photovoltaic system, especially about their interaction with the grid.

The morning session ended with arch. Michael Tribus. He shown example of buildings with very high energy efficiency realized in Italy. Particularly he presented a real case of a nearly zero energy renovation of a public office building in Bolzano. During the last part of the morning the European GreenBuilding award 2013 took place; Paolo Bertoldi introduced the ceremony and Dr. Heinz Ossenbrink (JRC) presented the European vision about nearly zero energy buildings; then 10 European organizations have been rewarded for their effort in enhancing energy efficiency in non-residential building. Also offices and tertiary building renovations were awarded.

The middle session was moderated by Dr. Salvatore Carlucci during the lunch break. Short communications were presented about an on-going European FP7 project aiming at renovating 6 city districts to the zero-energy target (Dr. Salvatore Carlucci, eERG-PoliMi), about how an higher education can introduce in the field of energy efficiency, renewables and decentralization strategies (ing. Giuseppe Medeghini, AREA RIDEF) and about a new research institute for zero-energy and passive houses in Italy (Dr. Francesco Nesi, Zephir).

The afternoon session drew the storyline from the rising of the passive house concept (Dr. Witta Ebel, Passivhaus Institute), as possible solutions toward nearly zero energy buildings for new and renovated ones, and to future scenarios (Dr. Amory B. Lovins, Rocky Mountain Institute). Dr. Klemens Leutgöb introduced the importance and the role of the integrated design approach to reach advanced goals in the design of buildings.

Finally an example of a zero-energy house in a Mediterranean climate was presented (ing. Carmelo Sapienza, Sapienza&Partners).

The agenda of the event, in the English version, is included in Chapter 2 of this report.

1.5 Information material and registration

All participants were registered. After the registration they all received a folder with the agenda and information material on the project involved in the workshop.

1.6 Promotional campaign

Several channels were used to spread the conference:

- An interview of Lorenzo Pagliano (eERG-PoliMi) was included in an article published on the Economy issue of the most sold national newspaper called “Corriere della Sera” on 22/04/2013.
- One press release.
- Two newsletters.

2. Agenda

INTERNATIONAL CONFERENCE

NET/NEARLY ZERO ENERGY BUILDINGS: TODAY'S ACHIEVEMENTS, OUTLOOK FOR A NEAR FUTURE

FIERA MILANO – RHO • 8 MAY 2013 • 09.30-13.30 | 14.45- 17.45 • 'GEMINI' ROOM

I SESSION

UNDERSTANDING THE ZERO ENERGY BUILDINGS CONCEPT

CHAIR: Paolo Bertoldi, European Commission's Joint Research Centre

- 09.30 Preferential admission of the pre-registered participants
- 10.00 **Welcome and opening remarks**
Lorenzo Pagliano - Salvatore Carlucci, eERG - Politecnico di Milano, Italy
- 10.30 **The methodological framework for the definition of zero energy buildings**
Igor Sartori, SINTEF, Norway (IN VIDEOCONFERENCE)
- 11.00 **Cost-optimal nearly zero energy buildings.
A proposal of efficiency indicators for the definition of NZEB**
Lorenzo Pagliano, eERG - Politecnico di Milano, Italy
- 11.30 **Architectural quality in high performance buildings: exemplary buildings in Italy**
Michael Tribus, Michael Tribus Architecture, Bolzano, Italy
- 12:00 Discussion

II SESSION

EUROPEAN GREENBUILDING AWARD 2013

- 12.15 **Discovering the most efficient European non-residential buildings.
Presentation and award ceremony of the winners
of the 'European GreenBuilding Award' 2013:**
- category 'New building'
 - category 'Refurbishment'
- Paolo Bertoldi, European Commission's Joint Research Centre, Ispra, Italy*

III SESSION

ORIGIN AND FAST RISE OF THE ZERO-ENERGY BUILDINGS

CHAIR: Lorenzo Pagliano, Politecnico di Milano

- 14:45 **The integrated design as a paradigm for NZEB: EU experiences.
A new award for promoting the integrated design concept**
Klemens Leutgöb, e7, Wien, Austria
- 15:15 **The European 'PassREG' project. Successful policies to mass deliver passive
house buildings: the case of Hannover, Frankfurt and Brussels**
Witta Ebel, Passivhaus Institute, Darmstadt, Germany
- 15:45 **A zero-energy building with high comfort at the foots of Etna:
integrated design, control and monitoring**
Carmelo Sapienza, Sapienza & Partners, Mascalucia, Italy
- 16:15 Discussion
- 16:30 **'Reinventing fire'**
How to transform the Empire State Building in a super-efficient skyscraper
Amory B. Lovins, Rocky Mountain Institute, Boulder CO, USA (in videoconference)
- 17:25 Discussion
- 17:40 Conclusions
*Paolo Bertoldi, European Commission's Joint Research Centre
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Building Efficiency Research Group



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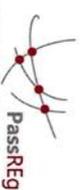
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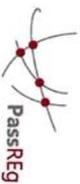
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 NET / NEARLY ZERO ENERGY BUILDINGS:
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Milan • 8 May 2013

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OF
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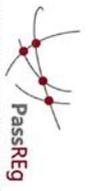
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INFORMATION EUROPE

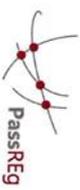


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4. Photos



Information material desk



Registration of participants



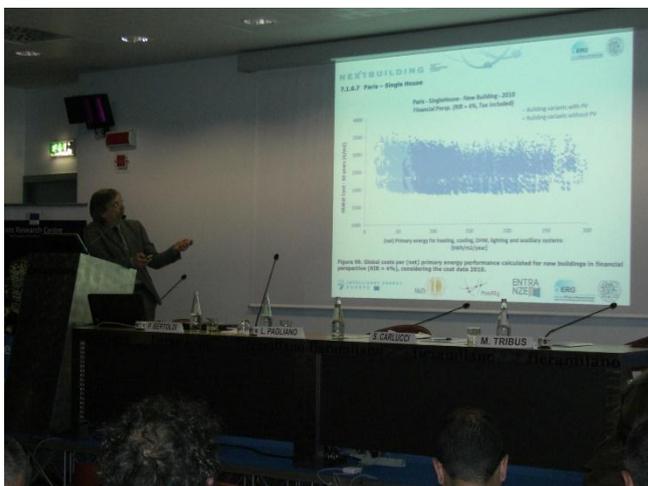
Participants of the conference
in the Gemini hall



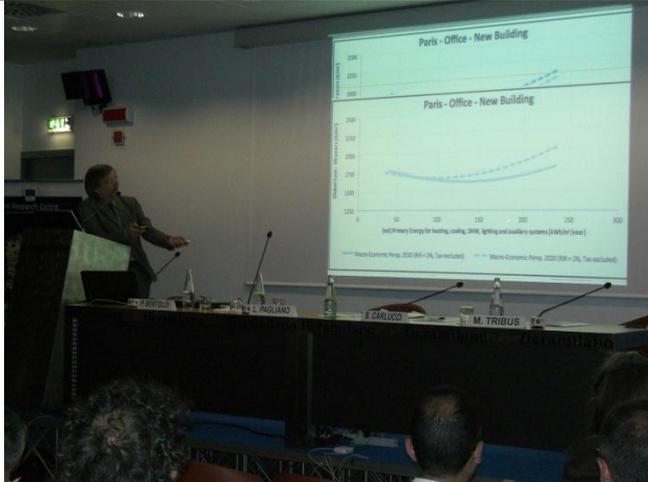
Pagliano introduce Sartori, who participated in video conference



Pagliano



Pagliano



Pagliano



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Pagliano introduces Lovins

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----- Messaggio originale -----

Oggetto: Nearly Zero Energy Buildings: tra attualità e futuro prossimo

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Nextbuilding, nuovo riferimento per l'efficienza energetica e il costruire "intelligente" nell'ambito della piattaforma espositiva **The Innovation Cloud (Fiera Milano-Rho, 8-10 maggio)** rappresenta l'evoluzione in chiave innovativa di Greenbuilding.

In questa edizione l'evento Nextbuilding ospita il Convegno di rilievo internazionale **"Nearly Zero Energy Buildings: tra attualità e futuro prossimo"**, curato dal prof. Lorenzo Pagliano, Politecnico di Milano, Direttore del Gruppo di Ricerca sull'Efficienza negli Usi Finali dell'Energia (eERG), che si terrà il giorno 8 maggio 2013 a partire dalle ore 10,30 presso la Sala GEMINI.

CONVEGNO INTERNAZIONALE

NET/NEARLY ZERO ENERGY BUILDINGS: TRA ATTUALITÀ E FUTURO PROSSIMO

FIERA MILANO – RHO • 8 MAGGIO 2013 • ORE 09.30-13.30 | 14.45- 17.45 • SALA GEMINI

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eERG ha il piacere di invitarvi al convegno internazionale "Net/Nearly Zero Energy Buildings: tra attualit  e futuro prossimo" che si terr  l'8 maggio 2013 ore 09.30-13.30 e 14.45-17.45, sala Gemini in Fiera Milano - Rho, all'interno della manifestazione fieristica SOLAREXPO & THE INNOVATION CLOUD.

Forte del suo ampio respiro internazionale, il convegno internazionale di apertura di NEXTBUILDING THE INNOVATION CLOUD si propone come occasione privilegiata di aggiornamento e di approfondimento tecnico sul tema degli edifici a energia zero e quasi-zero.

Tema ormai ampiamente dibattuto, ma raramente con il necessario rigore metodologico. Che indispensabile, se si vuole che questo dibattito risulti veramente utile ai progettisti e coinvolga, in una prospettiva crescente, tutti gli altri operatori del settore delle costruzioni. La direttiva europea 31 sulla performance energetica degli edifici com ben noto - richiede infatti che dalla fine del 2020 per tutti gli edifici, ma gi dalla fine del 2018 per quelli pubblici o ad uso pubblico, ogni nuova costruzione sia a energia quasi zero, e che si avvii un processo di trasformazione degli edifici ristrutturati anchessi in edifici a energia quasi zero. Questo obiettivo rappresenta una vera sfida e - al contempo - un'opportunit  importantissima per garantire una crescita sostenibile del settore dell'edilizia.

Il convegno affidato alla cura scientifica del GRUPPO DI RICERCA SULL'EFFICIENZA NEGLI USI FINALI DELL'ENERGIA DEL DIPARTIMENTO DI ENERGIA DEL POLITECNICO DI MILANO - impostato sul confronto delle attivit  in corso e del potenziale di sviluppo nel nostro Paese con le esperienze e gli approcci sviluppati da ricercatori, accademici e progettisti in vari ambiti europei e internazionali. A partire quindi dal panorama globale necessario a mettere a fuoco i concetti dei Net/Nearly Zero Energy Buildings si arriva alla presentazione di alcuni esempi di edifici realizzati in Italia, per condividerne le ipotesi progettuali e le problematiche tecniche affrontate nelle specificit  dei contesti climatologici italiani, con un'attenzione particolare rivolta ai parametri del comfort abitativo.

Evento nellevento sar  la cerimonia di premiazione dell'European GreenBuilding Award. Istituito e condotto dal JOINT RESEARCH CENTRE DELLA COMMISSIONE EUROPEA, basato a Ispra, questo concorso caratterizzato dal suo focus esclusivo sugli edifici non residenziali. Verranno presentate tutte le dieci realizzazioni rappresentative, anche in questo caso, sia di edifici NZEB nuovi che di interventi di retrofit - vincitrici dell'edizione 2013 del premio, provenienti da tutta Europa.

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Gentili iscritti alla newsletter,

ci permettiamo di inoltrarvi il programma della conferenza/convegno Net / nearly zero energy buildings: tra attualit  e futuro prossimo L'evento si terr  mercoled  8 maggio 2013 in sala Gemini, Fiera Rho-Milano, dalle ore 9:30 alle 17:45.

Inoltriamo anche il link al programma http://www.solarexpo.com/files/convegna/convegna-e-seminari/2013/Innovation%20Cloud%202013_NextBuilding%20Conference_IT.pdf

Link to the program: http://www.solarexpo.com/files/convegna/convegna-e-seminari/2013/Innovation%20Cloud%202013_NextBuilding%20Conference_EN.pdf

Il gruppo eERG del Dipartimento di Energia del Politecnico di Milano vi ringrazia per l'attenzione, confidando nella vostra partecipazione.

A presto
il coordinatore scientifico

Prof. Lorenzo Pagliano

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energy solutions
for better buildings

Nextbuilding - NET/NEARLY ZERO ENERGY BUILDINGS: TODAY'S ACHIEVEMENTS, OUTLOOK FOR A NEAR FUTURE

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8 May 2013

Type of Event | [Conference](#)

City | [Milan \(Italy \)](#)

Geographic Coverage | [International](#)

Theme | [Legislation, regulations, standards](#), [Energy performance certification](#), [Energy efficiency technologies and materials](#), [On-site renewable energy sources](#), [Residential buildings](#), [Public and non residential buildings](#), [Very low energy buildings](#), [Building operation, monitoring, energy management](#), [Thermal comfort](#), [indoor air quality](#), [acoustics](#), [Calculation, simulation](#)

Target Group | [Local/regional/national authorities and facilitators](#), [Building professionals](#)

Event Languages | [English](#), [Italian](#)

Organiser | [eERG-PolIMI](#)

Event website URL(s) | <http://nextbuilding.innovationcloud-expo.com>, <http://www.eerg.it/index.php?p=Progetti - Madrid>,

<http://www.integrateddesign.eu/>

Submitted by [Salvatore Carlucci \(eERG-PolIMI\)](#)

The international conference opening [Nextbuilding - The Innovation Cloud](#) is proposed as a special opportunity for updating and understanding of the subject of the nearly Zero- and Net Zero-Energy Buildings. Theme widely debated, but rarely with the necessary methodological rigor. If you want this debate to be truly useful to designers, it is essential to involve all operators in the construction industry in a growing perspective. The European Directive 2010/31/EU on the energy performance of buildings requires that all new buildings are nearly zero-energy buildings within seven years. Moreover, it stimulates a process of transformation of renovated buildings towards nearly zero-energy buildings. This represents a challenge and an important opportunity for the construction industry. The conference, organized by The Innovation Cloud and curated by the end-use Efficiency Research Group ([eERG](#)) of the Politecnico di Milano, is addressed to all operators in the construction industry, interested in collecting, as front-runners, this opportunity. The conference also aims at combining methodological rigor and practicality. On the one hand, the conference proposes a reflection on the theme of nearly zero-energy buildings, comparing and discussing the latest and most interesting experiences and approaches developed in different international contexts; on the other hand, it shows selected examples of zero energy buildings realized in Italy, in order to share project ideas and technical issues. In addition, the ceremony of the prestigious "European GreenBuilding Award" established and conducted by the Joint Research Center, based in Ispra, will be held during the conference. All the ten European buildings which have won the 2013 prize will be presented and will be rewarded.

The international conference "NET/NEARLY ZERO ENERGY BUILDINGS: TODAY'S ACHIEVEMENTS, OUTLOOK FOR A NEAR FUTURE" focuses on future priorities and challenges that the building sector will face in the coming years given the upcoming regulatory deadlines. By 31 December 2020, in fact, all new buildings must be "nearly zero energy buildings"; for the new public buildings this target is anticipated until 31 December 2018. The constraints that the legislation impose, are particularly stringent for existing public housing: since 1 January 2014, 3% of the floor area of public buildings will have to be refurbished every year. According to this, the conference will host the intervention of [Amory Lovins](#), Rocky Mountain Institute, who will present the refurbishment project of the Empire State Building, the historic symbol of U.S. public housing aiming at maximizing its energy efficiency. The conference, which will last the whole day, starts with the identification of a clear and effective framework for defining a "zero-energy building", as formalized in the integrated project [SHC Task40/ECBCS Annex52 of the International Energy Agency](#) (IEA) and in the European project [EntranZe](#). Later on, taken from the European project [PassREg](#), some examples of support policies that have led to spread on a regional scale the construction of new buildings in accordance with the German Passivhaus concept are shown. Then, the Integrated Design approach is introduced according to the European project [MaTrID](#), it is a proven approach for achieving high-performance buildings with good indoor environment without sacrificing architectural quality or result in excessive costs. Moreover, the new award "European GreenBuilding / Integrated Design Award" will be officially presented. It is dedicated to outstanding application of the integrated design approach in non-residential buildings. Finally, the technical features and the monitoring set-up of a zero-energy house designed to ensure high levels of thermal and visual comfort and built at the foot of the Etna Vulcano will be presented in detail.

Contact event | | Salvatore Carlucci salvatore.carlucci@polimi.it

Source Languages | [English](#)

Additional documents | [Innovation Cloud 2013_NextBuilding_Conference_EN.pdf](#)

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One more Build-Up event was also published in Italian.

