



**“Be Part of the Future”  
| Deep Energy Renovation |  
Conference and Workshops**

**Awareness – Education - Implementation  
“Renovation Workshops”**

**→ THESSALONIKI  
Kalamata – Patra – Chania – Herakleion  
Larisa – Ioannina – Xanthi  
ATHENS ←**

## INSTITUTE OF ZERO ENERGY BUILDINGS

The Institute of Zero Energy Buildings - INZEB serves as an **aggregator, operator, documenter and disseminator of knowledge and expertise on issues related to energy saving in the building sector**. The aim of INZEB is to serve as a platform for two-way communication and close dissemination of knowledge, contributing to research, adaptation, adoption and widespread construction standards with the aim of reducing the energy consumption and emissions of “greenhouse gas” pollutants.

The fundamental aim of INZEB is **the study, evaluation, training, coordination and promotion of practices, standards and actions** which relate to the concept of “**zero energy buildings**” **exclusively in areas with a prevailing warm climate**; such as the countries of the Mediterranean and Middle East.

As part of its activities, Institute of Zero Energy Buildings has developed synergies and partnerships with European bodies and organizations in order to inform and engage Greek professionals from the construction industry. Since early 2014, INZEB performs as the National Supporting Partner of **Renovate Europe Campaign**, has also developed a close relation with the **Buildings Performance Institute Europe – BPIE** and serves as the Official Partner of **European Alliance to Save Energy**.



# RENOVATION WORKSHOPS

## The IDEA !

*i* European Union's building stock is the most energy consumptive sector. Studies show that 80% of the existing building stock in all of EU countries will continue to be used for the next 50 years. Deep Energy Renovation of those buildings is one of the most dynamic ways to achieve energy security and minimize the dependence for energy imports.

*i* Alongside Deep Energy Renovations will boost the economy and at the same time will create thousands of new jobs and innovation opportunities.

*i* We live 90% of our time inside buildings. By improving buildings' energy performance we improve the living conditions and quality of life.

*i* Energy Efficiency is a "hot" topic for Europe. There are many initiatives and actions with main aim the involvement of stakeholders, professionals, public and private bodies in order everyone to get informed for the benefits and the prospects that arise by improving buildings' energy performance.

*i* And this exactly our **Goal!** Renovation Workshops main aim is to inform and educate citizens, building owners, professionals, public and private bodies and organizations about the benefits and prospects that arise by improving buildings' energy performance and to transfer the knowledge and the experiences from applied examples.

*i* **9 Renovation Workshops** have been scheduled for 2015. The events consists of two sections as described in the following pages.

# RENOVATION WORKSHOPS PART A'

## Awareness & Education

### INZEB Introduction

- ⦿ Aims and objectives of Institute of Zero Energy Buildings. The cooperation with European bodies and organizations and the benefits arising from these collaborations.
- ⦿ Presentation of the goals and objectives of **Renovate Europe Campaign**, **BPIE**, **EUASE** and **RenoValue**.
- ⦿ Presenting INZEB's milestones, goals and progress.

### nZEB and Deep Energy Renovation

- ⦿ Introducing nZEB.
- ⦿ Reference to EU Directives and legislation and the relevant National Context. Reference to other EU National Contexts.
- ⦿ Connecting nZEB with Deep Energy Renovations.
- ⦿ Key Principles: From requirements to consumptions.
- ⦿ Presentation of applications: Objectives, methodology, interventions, results (estimated and actual) costs and payback time period.
- ⦿ Benefits for building owners, entrepreneurs and investors.

# RENOVATION WORKSHOPS PART A'

## Awareness & Education

### **Experience from the implementation: Approaching practically nZEB / Deep Energy Renovations Problems and solutions during the construction process.**

- ◉ Indicative methodology: Identification of building use and recording of the current consumption. Evaluation of natural ventilation, cooling and lighting and sun protection possibilities.
- ◉ Evaluation of Building envelope and E/M installations.
- ◉ Evaluation of possible interventions with the use of softwares.
- ◉ Presentation of indicative realized interventions in a building.
- ◉ Analysis all sub stages. Construction problems and solutions given during the process.
- ◉ Finalization of the scenario based on Cost Optimum Scenario and ROI.

### **Exploring Suitable Construction Materials**

- ◉ Certified materials. What is CE and how to check it. Reference to other technical markings (ENs - ETA - EPD's).

### **Innovative Construction Materials**

- ◉ The evolution of construction materials. Analytical presentation and application possibilities in a deep energy renovation.

### **Presenting RENOVATION HUB by INZEB.ORG**

# RENOVATION WORKSHOPS PART B'

## From Theory to Practice

### “Optimal Deep Energy Renovation” Interactive Workshops

The main axle of "**Renovation Workshops**" is the collaboration of participants for the proper and most effective implementation of standards and techniques as well as the efficient use of materials for the optimal deep energy renovation of buildings.

The workshop is addressed to engineers of all specialties as well as construction professionals.

*The 1<sup>st</sup> Renovation Workshop was held in November 2014 within the framework of Green Building Expo 2014.*



# RENOVATION WORKSHOPS

Engage !!

“Deep Energy Renovation  
Tips & Techniques”  
handbook by INZEB.ORG

Promotion of good  
practices at  
**RenovationHub.ORG**

Certificate of  
Attendance

Experience

Networking

Updates on recent  
developments

Acquaintance with  
new technologies  
and standards

# RENOVATION WORKSHOPS

At a Glance...

## “European Sustainable Energy Week”

THESSALONIKI → Friday, June 19<sup>th</sup> 2015

XANTHI → Saturday, November 14<sup>th</sup> 2015

## “Renovate Europe Days 2015”

IOANNINA → Saturday, October 17<sup>th</sup> 2015

## “Renovate Europe Days 2015”

LARISA → Friday, October 16<sup>th</sup> 2015

PATRA → Saturday, September 19<sup>th</sup> 2015

## “Green Building Expo 2015”

ATHENS → Saturday, November 21<sup>st</sup> 2015

KALAMATA → Friday, September 18<sup>th</sup> 2015

CHANIA → Friday, September 25<sup>th</sup> 2015

HERAKLEION → Saturday, September 26<sup>th</sup> 2015





# INZEB

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