Towards an Italian overall legislative act on energy in buildings: AiCARR proposal

The proposal for a single national legislative act on energy use in buildings is a possibility that our Association could submit to the institutions to compensate the lack of clarity and consistency of the current national legislative regulation on the energy efficiency of the Italian buildings stock. The current legislative framework also indicates the absence of explicit provisions addressed to regulating and safeguarding the skills acquired by designers and professionals in that field.

AiCARR proposes to discuss with professionals and institutions about a varied and complex theme always actual in Italy.

PROGRAMME

Chairman: Livio de Santoli, AiCARR President-Elect

◊ Introduzione e significato di un Testo Unico per l’energia degli edifici
Livio de Santoli, AiCARR President-Elect, Università La Sapienza, Roma

◊ Modifiche alla normativa per l’efficienza energetica e le fonti rinnovabili
Giovanni Battista Zorzoli, Presidente Coordinamento FREE

◊ Un Testo Unico per l’energia in edilizia, un possibile percorso
Giuliano Dall’O’, Presidente SC1 UNI-CTI, Politecnico di Milano

◊ Evoluzione della normativa tecnica e sua applicazione a supporto della legislazione
Vincenzo Corrado, AiCARR e CTI, Politecnico di Torino

◊ Una guida operativa del Testo Unico sull’energia negli edifici
Livio Mazzarella, CEN-REHVA, Politecnico di Milano

◊ Il GdL Energia del Consiglio Nazionale degli Ingegneri: attività ed obiettivi
Gaetano Fede, Consiglio Nazionale degli Ingegneri, Area Energia

◊ Discussion: predisposizione di un documento-proposta di Testo Unico per l’energia negli edifici

At the beginning of the Seminar will be held the “Sanguineti” Award Ceremony.
Towards nearly zero-energy retrofitted buildings

The topic of designing and constructing nearly zero energy buildings has been firstly addressed to new buildings. Nevertheless, the big challenge for the European Countries is to focus in increasing the energy performance of the existing building stock.

As highlighted by several European projects and researches, the energy properties of buildings are really poor and high potentials of energy savings can be achieved by energy renovation actions. In this scenario, it is important to analyses which are the real strategies to develop and the proper technologies to set for retrofitting existing building up to the target of “nearly zero energy”, taking into account the suitable trade-off between energy and economical goals as introduced by the “cost optimality approach”.

◊ nZEB concept and Mediterranean Countries
Livio Mazzarella, Energy Department, Polytechnic of Milan, Italy

◊ Retrofitted N-ZEB: challenging between energy and economical targets
Stefano P. Corgnati, Rehva Vice-President — Associate Professor, TEBE Research Group, Energy Department of Polytechnic of Turin, Italy.

◊ Energy retrofitting of panel residential buildings for nearly zero energy buildings in Hungary
Zoltan Magyar, REHVA vice-president — Head of Building Energetics and Building Service Engineering Department, Budapest University of Technology and Economics

◊ Status of implementation of the European Directives for Energy Efficiency in Romania. Technical solutions for transforming an existing residential building into a nearly zero energy building (nZEB)
Ioan Silviu Dobosi, REHVA vice-president — Director of Dosetimpex S.R.L, Timisoara (Romania)

◊ The role of energy simulation towards nZEB: case studies
Enrico Fabrizio, University of Turin, Italy

◊ Certification of multi-energy systems
François-Xavier Ball, Eurovent Certita Certification

SIMULTANEOUS TRANSLATION IS PROVIDED
ASHRAE SEMINAR

20th March 2014
Centro Congressi Stella Polare—Sala Gemini
2,00 p.m.—6,00 p.m.

Design of Commercial Ground Source Heat Pumps

This course describes the best design and installation practices for ground source heat pump systems. These systems offer low first-cost solutions to energy efficiency.

Focusing on vertical ground loop heat exchanger systems, the course covers energy analysis, equipment selection, drilling technologies, testing requirements, hydronic system design and system controls.

An economic analysis of ground source vs. more traditional systems is discussed. Also, the factors necessary to design an effective and efficient ground source system are described.

Participants will learn all that is necessary for successful ground source heat pump systems, specifically horizontal bore systems, surface water systems and open loop systems.

Instructors: Lisa Meline and Kirk T. Mescher

SIMULTANEOUS TRANSLATION IS PROVIDED