



CIB NEWS ARTICLE

International Council for Research and Innovation
in Building and Construction

Providing a global network for international exchange and cooperation in research and innovation in building and construction, in support of an improved building process and of improved performance of the built environment.

July 2010

Around the Task Groups and Working Commissions

TG66 - Energy and the Built Environment

Implementation of Energy Efficient Buildings Policies in 5 Continents

Programme Overview

Task Group Scope

Energy efficiency is considered as linked to two planetary strategic challenges: Climate change and Energy Supply Security.

So, Energy Efficiency Buildings Policies get three aims:

- To diminish energy consumption
- To reduce CO₂ emissions
- To increase renewable energy

On continental, state and local levels, Energy Efficient Buildings policies are a mix of four kinds of instruments:

- Control and regulatory instruments which can be:
 - Normative: Appliance standards, Building codes, Procurement regulations, Energy efficiency obligations and quotas
 - Informative: Mandatory audits, Utility Demand-side management (DSM) programs, Mandatory labeling and certification programs
- Fiscal instruments and incentives: Taxes, Tax exemptions / reductions, Public benefit charges, Capital subsidies, grants, subsidized loans
- Economic and market-based instruments: Energy performance contracting, Cooperative procurement, Energy efficiency certificate schemes, Kyoto Protocol flexible mechanisms
- Support, information and voluntary action: Voluntary certification and labeling, Voluntary and negotiated agreements, Public leadership programs, Initial and continuous training programs for property and construction professionals, awareness raising, education, information campaigns, Detailed billing and disclosure programs

Task Group Objectives

Task Group objectives are:

- to set up a worldwide network of experts on the Energy Efficient Buildings Policies, monitored by an international Project Team
- to gather and capitalize high level information on the scope, by organizing international seminars and internet sessions
- to put this information on line on internet for public authorities, Construction and Property Sector actors and researchers

International Seminar: Brussels, 14 October 2009

To kick off the TG66 programme an international seminar was held in Brussels on 2009, October 14. Four International Organizations presented their policies.

- IEA (Jens Laustsen). One key message of this organization involved in energy efficient buildings in developed countries: Buildings energy use can be reduced dramatically alone with existing solutions
- UNEP-SBCI (Rodney Milford). Focus areas of this world wide UN initiative are: Kyoto Protocol, common carbon index for buildings, cost-efficient policies, assisting developing countries
- WBCSD (Donen Van der Weele). According to their business oriented Energy Efficiency in Buildings project, strong policies are necessary

European policies actors made presentations.

- Energy Performance Building Directive - EPBD - (Michaela Holl) is the heart of European policy and action
- In EPBD concerted action (Eduardo Maldonado), 29 European countries are cooperating

- BUILD UP (Peter Wouters) is an Internet Portal to gather common information and improve action efficiency
- In European Construction Technical Platform - ECTP - (Luc Bourdeau), private sector is implementing an Energy Efficient Building Joint Initiative

Four country representative presented their policies, the USA and three emerging countries.

- USA (Shyam Sunder). The four instruments (regulation, incentives, support, market) are implemented in a different in each State
- Brazil (Vahan Agopyan, Roberto Lamberts). Contrast is great between modern building sector and informal sector
- China (Wang We, Fang Dongping). Energy consumption is low for the moment, but fast development has to be controlled
- South Africa (Rodney Milford). Policy instruments have to be really implemented

To listen to registered conferences and download presentations, click [here](#).

First Internet Session dedicated to Europe: 24 February 2010

Six speakers made presentations from five cities (Brussels, Delft, Karlsruhe, Paris and Warsaw):

- Netherlands (Marleen Spiekman). When you compare Energy Performance Requirements, be cautious
- France (Frédéric Bougrain, Jean Carassus). Regulation may be a strong mean to promote innovation
- Belgium (Peter Wouters). It is necessary to measure policies impact and to control policies implementation
- Germany (Andreas Koch, Lioba Markl-Hummel). Existing buildings renovation demands active regulation, incentives and support
- Poland (Krzysztof Kasperkiewicz). Regulation, incentives, support in an Eastern European country

93 persons participated in the Internet Session, 77 from 19 different European countries, 16 from 7 other countries (USA, Brazil, China, Japan...). 36 persons belonged to universities and research institutes, 39 to firms (United Technologies Corp, Carrier, EDF, Saint Gobain, Isover, Lafarge, Rockwool, AXA Real Estate...) and 18 to public bodies and international organizations (Ministries, UNEP, City of Paris, Public Agencies...).

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Manchester Meeting

A meeting was organized using the CIB bottom up approach, from 19 papers dealing with technical and internet-socio-economical "Energy and the Built Environment" topics, sent by researchers and post graduate students to Task Group Coordinator, was held on May 11 in conjunction with the CIB World Building Congress.

To download the research papers, click [here](#).

On May 12, discussion highlighted the innovative top down approach used for seminar and internet sessions dedicated to the Implementation of Energy Efficient Buildings Policies in 5 Continents.

To know participants in the Manchester meetings, click [here](#).

Five Internet Sessions

Internet sessions are being organized for different regions, dedicated to the Implementation of Energy Efficient Buildings Policies in:

- Latin America in September 2010 (Organizer: Roberto Lamberts, Federal University of Santa Catarina, Brazil)
- North America in October 2010 (Organizer: Barbara Lippiatt, NIST)
- Asia in November 2010 (Organizers: Hiroshi Ito, Building Research Institute, Japan, Mahua Mukherjee, IIT, India and Yingxiu Zhu, Beijing University, China)
- Mediterranean countries and Africa in January 2011 (Organizers: Rodney Milford, CIDB, South Africa, Jean Carassus and Peter Wouters)
- Australia-New Zealand in February 2011 (Organizer: Keith Hampson, Sustainable Built Environment National Research Centre, Australia, to be confirmed)

A Community Internet Web site is under construction at www.buildup.eu portal.

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