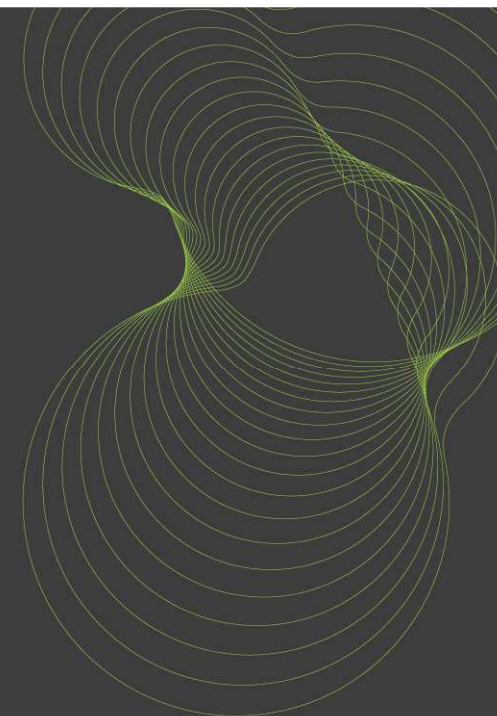


OICE/EFCA CONFERENCE 2010



**“Build-Up” and Overview of European Initiatives on
Energy Efficiency and Sustainable Construction**

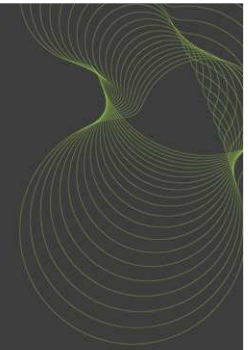
Roger Hitchin
BRE

Summary



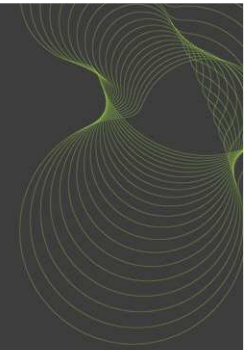
- EU Sustainable Development Strategy
 - A brief overview
 - Impacts on energy and buildings
- The EU Build-Up Portal
 - What has EFCA joined?
 - What it is and what it does

EU Sustainable Development Strategy



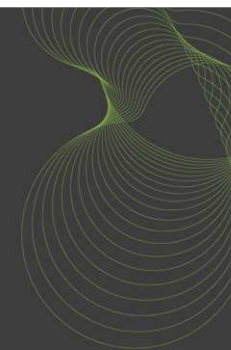
- Overall aim:
 - to identify and develop actions to enable the EU to achieve a continuous long-term improvement of quality of life.
- Priority Challenges
 - Climate change and clean energy
 - Sustainable consumption & production
 - Sustainable transport
 - Conservation and management of natural resources
 - Public Health
 - Social inclusion, demography and migration
 - Global poverty and sustainable development challenges

20/20/20 Energy Policy



- Policy Issues
 - Security of Supply
 - Climate change
 - Financial Crisis
- Policy Objectives 20/20/20
 - Reduce greenhouse gas emissions by 20%
 - Increase share of renewable energies to 20%
 - Save 20% of primary energy
 - By 2020

Progress as of 2008: Selected energy indicators



Indicator	Status
Indicators which impact on Building Emissions	
Combined heat and power	On target
Greenhouse gas intensity of energy	Close to target
Electricity generation from renewables	Not on target
Eco-labels	On target
Indicators influenced by Buildings Performance	
Atmospheric Emissions	On target
Inland energy consumption	Not on target
Final Energy Consumption	Not on target

The Building Sector is important

- 40% of energy consumption
- 36% of EU CO₂ emissions
- 28% of potential energy savings
- **Significant potential** for cost-effective energy savings
- **Large market** and business opportunity
- **210 million** households (15 000 km²), offices 6 000 km²
- **Many energy-efficient solutions** are known and available...



Directives and Regulations relating to Buildings and Building Services Products



- BUILDING AND ENERGY SUPPLY
 - Energy Performance of Buildings
 - Renewable Energy
 - Energy Services
- BUILDING PRODUCT
 - Energy-related Products
 - Energy Labelling
 - Eco-labelling
 - Fluorinated Gas
 - Waste Electrical and Electronic Equipment
 - Restriction on Hazardous Substances

Energy-related Products Directive



- Best known in connection with consumer products
 - Energy Labels, Minimum Performance Standards
- Now being applied to lighting and HVAC products
 - Boilers, water heaters, air conditioners, fans , pumps,
- Formerly “Energy-*using* Products Directive”
 - Products that affect energy use but do not themselves use energy
- Ecolabelling Directive
 - Work in hand on Ecolabel for “best” buildings
 - Seems to overlap with existing voluntary systems

Energy Performance of Buildings Directive (EPBD):



- Minimum energy performance requirements
 - for new buildings and major renovations
- Energy performance ratings and certificates
 - When buildings are constructed, sold or let
 - Public display in some cases
- Regular inspections of heating and air-conditioning systems

EPBD Recast



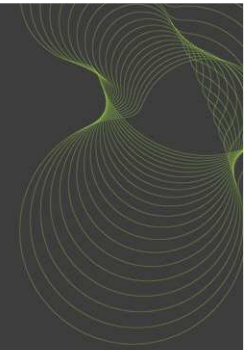
- Principles
 - Keep the features of the EPBD
 - But “clarify and make more effective”
 - Retain principles of subsidiarity and economic feasibility
- *Need to move emphasis from regulations to action*
 - *But support actions (such as financial incentives) are outside the scope of the EPBD*
- Implementation in 3 years

EPBD Recast : Some provisions



- **Minimum Performance Requirements**
 - For replacement elements of envelope of existing buildings
 - For “technical building systems” when replaced or upgraded
 - Should be “cost-optimal” over the building’s life
- **Energy Performance Certificates**
 - Public display for more buildings
 - Performance to be stated in all advertisements for sale or rent
- **Air conditioning and heating system inspection**
 - more flexible application

Financial support



- EPBD cannot deal directly with financial issues
 - But financial measures are envisaged
 - *EU Structural funds: public sector EU-27, housing EU-12*
 - *State aid for measures beyond the minimum requirements*
 - *VAT reduced rates for some labour-intensive services*
- European Economic Recovery Plan includes:
 - Improving energy efficiency in buildings
 - Promoting the rapid take-up of 'green products'



EPBD Supporting Activities :

- Concerted Action
 - Member States collaborate on implementation procedures
- Multi-national projects
 - Intelligent Energy Europe programme
 - **Seventh Framework Programme (FP7)**
- Development of European Standards
- **BUILD UP**
 - Interactive web portal



www.buildup.eu

Opportunities offered by the BUILD UP interactive web portal

Surname LASTNAME
ORGANISATION

Title of the conference
City, 00 Month 2010

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Intelligent Energy - Europe

Intelligent Energy  Europe

BUILD UP is funded under the Intelligent Energy - Europe programme (2007-2013) that is managed by the Executive Agency for Competitiveness & Innovation (EACI) on behalf of the European Commission.

*The BUILD UP web portal is provided by the service providers **INIVE**, **EEIG**, **P.A.U. Education** and **PRACSIS** in the frame of a service contract signed with the EACI.*



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(bre is not part of INIVE)

BUILD UP Goals



Connect and gather



**Public
authorities**



**Building
professionals**



**Building
occupants**

Become THE European portal for energy efficiency in buildings

■ How:

- ▶ By transferring best practices of energy savings measures to the market and fostering their uptake
- ▶ By keeping the market updated about EU energy policy for buildings

Solutions depending on audiences

BUILD UP provides specific solutions for specific audiences:

The market



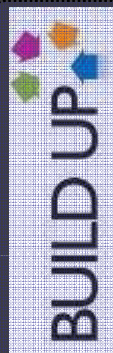
**Public
authorities**



**Building
professionals**



**Building
occupants**



*Web
portal*

Energy legislation

**EPBD resource
centre**

**National info
in practice**

You and the EU

Energy efficiency

**Database of
Cases & Tools**

**Your guide to
energy efficiency**

Find resources



1



**BUILD UP
web portal**

1

Being up-to-date

Regular information,
Newsletter, RSS
Feeds

Stay informed



News



Events



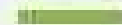
Publications



Links



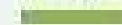
Cases



Tools



People



RSS

Subscribe to the News RSS

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Post your information



1



2



**BUILD UP
web portal**

1

Being up-to-date

Regular information,
Newsletter, RSS Feeds

2

Propose Content

Propose a
Publication, Case,
news item, Event...

Provide information

Propose a news item!

Propose an Event!

Propose a Publication!

Propose a Link!

Propose a Case!

Propose a Tool!

Why post information?

- Visibility at the EU level
- Recognition in the field of energy efficiency of buildings
- If you want to inform others of your activities



Share knowledge...



1



2



**BUILD UP
web portal**

3



1

Being up-to-date

Regular information,
Newsletter, RSS Feeds

2

Propose Content

Propose a Publication,
Case, news item, Event...

3

Share knowledge...

Interact with your
peers

Communicate via the virtual Communities!



Virtual Communities aim at gathering members with common interests

Why?

- **Share knowledge with your peers**
- **Get known by others with similar interests**
- **Have a place for discussions**
- **Identify specific events, news, publications**
- **Create your own newsletter with focused information**



Through partnership: a winning team

■ BUILD UP Partners:

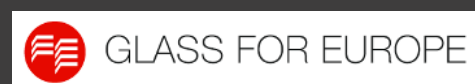
- ✓ **Industry and professional associations** (*European level*)
- ✓ **Consumer associations** (*European level*)
- ✓ **Non-governmental organisations campaigning for energy efficiency in buildings** (*European level*)
- ✓ **Media with a proven track record of reporting on energy/construction** (*national levels*)



BUILD UP Partners (as per March 2010)



the mark of
property
professionalism
worldwide



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Key messages

BUILD UP is a tool from the European Commission for the market to help reduce the energy consumption of buildings across Europe

The more it is used, the more effective it will be

Have a look! www.buildup.eu

- *Register*
- *Post your items*
- *Propose/Join a Community*
- *Share the intelligence*
- *Tell your networks*

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BUILD UP, the European portal for energy efficiency in buildings

www.buildup.eu

BUILD UP serves the needs of building professionals, public authorities and occupants alike. The key aim is to reduce the energy consumption of buildings across Europe by transferring best practices to the market and fostering their uptake. BUILD UP will also keep you updated about EU energy policy for buildings.

BUILD UP Europe's collective intelligence
Bringing together new practitioners and professional associations while motivating them to change their working practices, by stimulating knowledge and the transfer of tools, best practices and resources.

Informing and forging links between local/regional/national authorities, energy agencies or non-governmental organisations.

Encouraging building occupants – both property owners and tenants – to improve the energy performance of their buildings and to use energy more rationally.

Buildings consume more energy than any other sector of the European economy. It is recognized that they account for around 40% of energy consumption. The building sector therefore offers the largest potential for energy savings, which in turn will reduce our negative impact on the environment.

In 2009, the European Commission has launched its BUILD UP initiative to increase the awareness of all parties in the building chain of the saving potential which remains untapped. BUILD UP will promote better and smarter buildings across Europe by connecting building professionals, local authorities and citizens. Its interactive web portal will catalyse and release Europe's collective intelligence for an effective implementation of energy-saving measures in buildings.

The BUILD UP web portal will share and promote existing knowledge, guidelines, tools and best practices for energy-saving measures in buildings across Europe. At the same time, it will inform and update the market about the legislative framework in terms of goals, practical implications and future revisions.

BUILD UP
energy solutions
for better buildings

Intelligent Energy Europe

!

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www.buildup.eu

The European portal for energy efficiency in buildings

Directorate-General
for Energy

