BUILD UP
energy solutions
for better buildings

www.buildup.eu

Opportunities offered by the BUILD UP interactive web portal

Gilles VAILLE
PRACSIS

ACE Seminar on Architecture and Sustainability
Brussels, 24 September 2009

Table of contents

BUILD UP
energy solutions
for better buildings

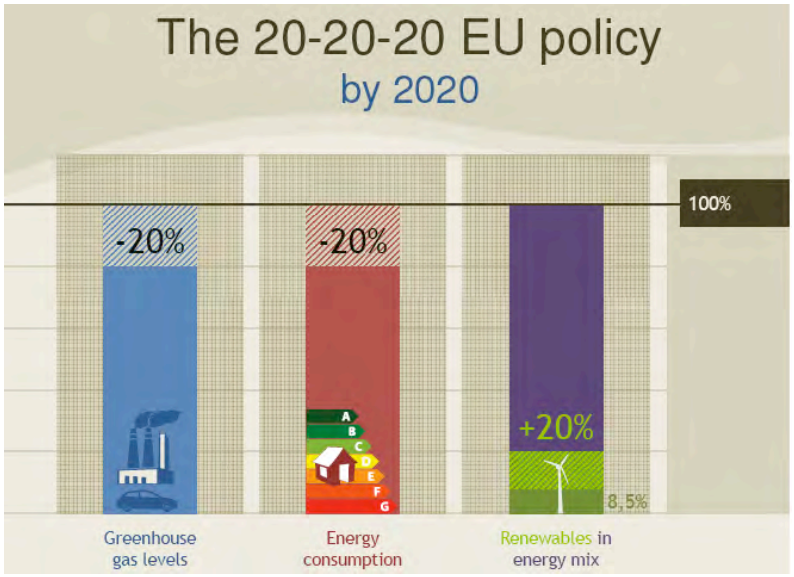
Context

What is at stake?

- **Security of supply**
  Energy supply must be secure and affordable

- **Climate change**
  The future has to be low-carbon

- **Economic crisis**
  A relaunch of the economy is needed

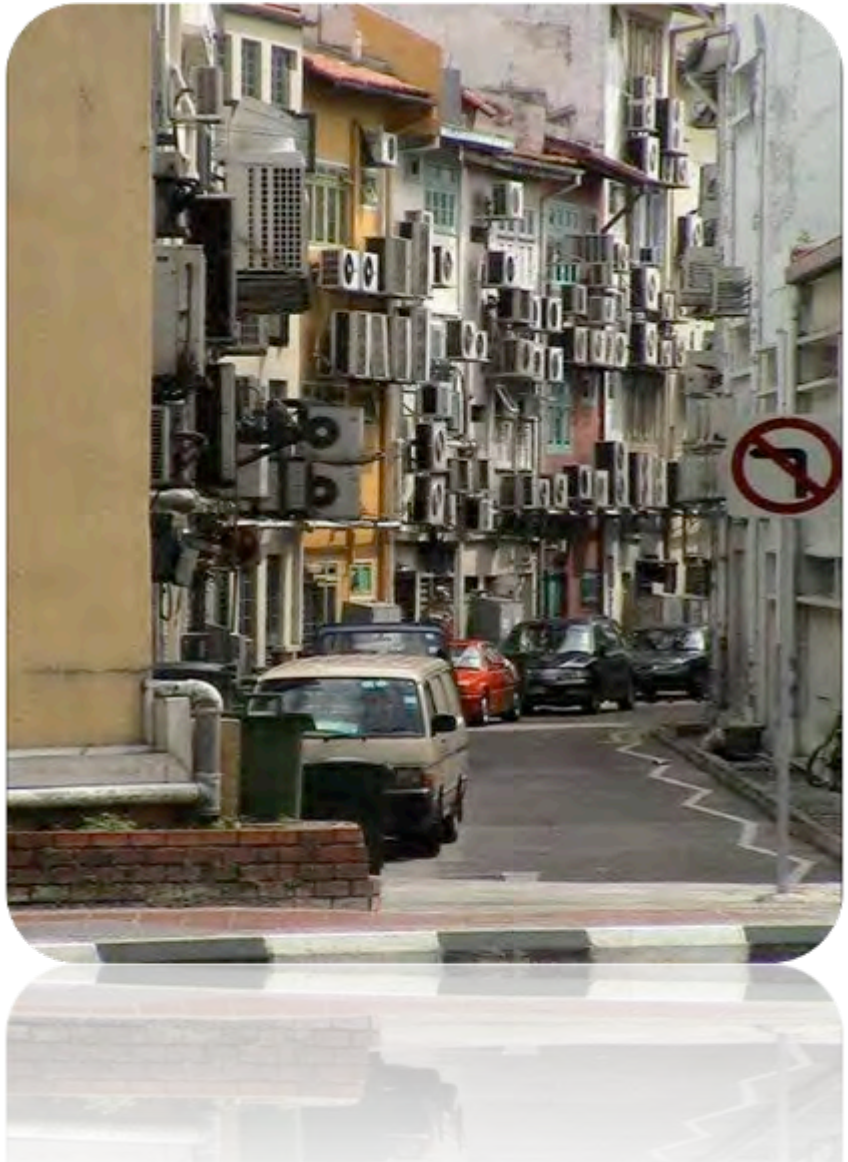


Climate Action

BUILD UP
energy solutions
for better buildings

…in the building sector

- **40%** of energy consumption
- **36%** of EU CO_2 emissions
- **28%** of potential energy savings
- **Significant potential** for cost-effective energy savings
- **Large market** and business opportunity
- **210 million** households (15 000 km^2), offices 6 000 km^2
- **Many energy-efficient solutions** are known and available…



BUILD UP
energy solutions
for better buildings

EU legislation in the buildings sector

Publication of the EPBD — **16-12-2002**

Recast proposal of the EPBD — **13-11-2008**

Publication of the recasted EPBD — **Beginning 2009?**

Implementation ***Implementation***

Current Directive 2002/91/EC (EPBD):

- Minimum energy performance standards for new and for existing buildings that undergo major renovation
- A methodology to calculate and rate the energy performance
- Energy performance certificates
- Regular inspections of heating and air-conditioning systems

Additional energy savings of 5-6% of total EU energy consumption

BUILD UP
energy solutions
for better buildings

From EPBD Buildings Platform to BUILD UP

BUILD UP
energy solutions
for better buildings

EPBD	→	Energy efficiency of buildings
Professionals	→	Professionals + citizens
Database	→	Database update
Information	→	Public participation
Promotion	→	Active promotion of best practices

BUILD UP
energy solutions
for better buildings

Launch on 16 June 2009

Intelligent Energy - Europe

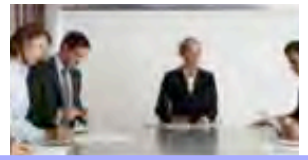
BUILD UP is funded under the Intelligent Energy - Europe programme (2007-2013) that is managed by the Executive Agency for Competitiveness & Innovation (EACI) on behalf of the European Commission.

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.

BUILD UP your objectives!

Goals

Improve the energy performance of buildings by gathering building professionals, local authorities and citizens on THE European portal for energy efficiency in buildings



Public authorities

Building professionals

Building occupants

- **2 main goals:**
  - **Transfer best practices of energy savings measures to the market and foster their uptake**
  - **Keep the market updated about EU energy policy for buildings**

Objectives

- Increase awareness of all parties in the building chain
- Promote energy efficiency in buildings across Europe
- Inform and update the market about the legislative framework
- Catalyse and release Europe's collective intelligence for an effective implementation

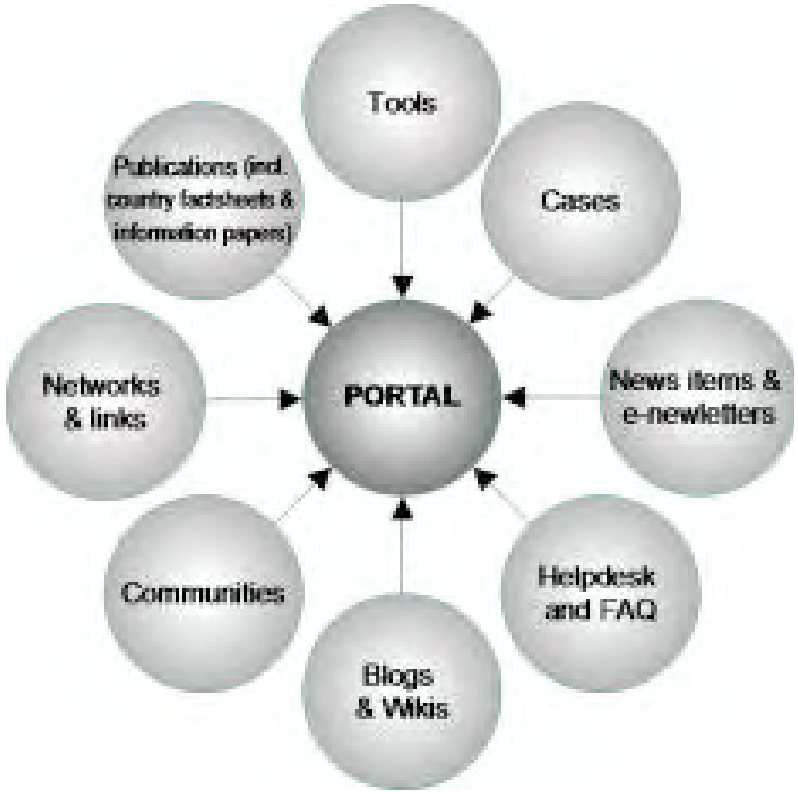
Encourage, Transfer, Promote information and knowledge

Influential

Interactive

Powerful

Proactive



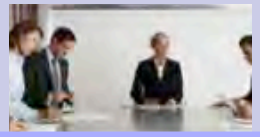
BUILD UP
energy solutions
for better buildings

Specific solutions

Solutions for audiences

BUILD UP provides specific solutions for specific audiences:

The market



Public authorities

Building professionals

Building occupants

BUILD UP

Web portal

Energy legislation

EPBD resource centre

National info in practice

You and the EU

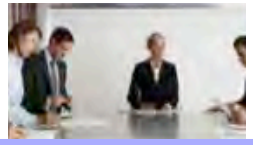
Energy efficiency

Database of Cases & Tools

Your guide to energy efficiency

BUILD UP
energy solutions
for better buildings

Levels of interactivity



Public authorities

Building professionals

Building occupants

1

2

3

BUILD UP web portal

1 ***Being informed***

Regular information, Newsletter, RSS Feeds

2 ***Provide information***

Propose a Publication, Case, news item, Event…

3 ***Share knowledge***

Propose/join a Community, Respond to others' posts

Send to a friend

SHARE ...

BUILD UP
energy solutions
for better buildings

Building professionals

Cases

Tools

Publications

Top News

Upcoming Events

BUILD UP
energy solutions
for better buildings

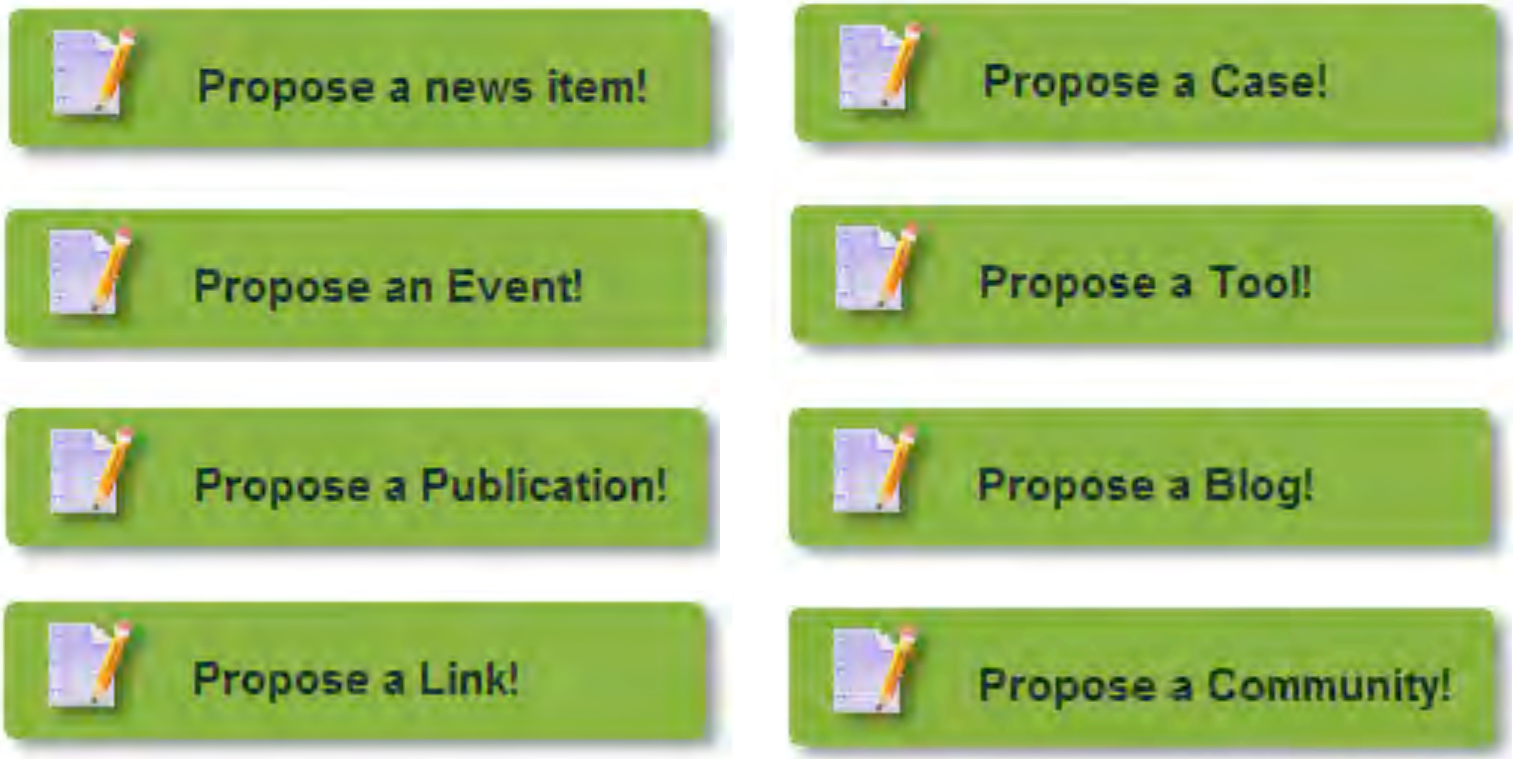
Be up-to-date and express your opinion

BUILD UP
energy solutions
for better buildings

If you are a professional with interest in energy legislation or energy efficiency...

BUILD UP
energy solutions
for better buildings

and you want to inform others of your activities…



BUILD UP
energy solutions
for better buildings

Why posting information?

Propose a news item, Event, Publication, Link, Case and/or Tool!

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

Propose an Event!

Propose/join a Community!

- Common interests
- Blogging
- Calendar
- Networking
- Better share knowledge
- If you want to better serve your members and/or targets

Propose a Community!

BUILD UP
energy solutions
for better buildings

Example

Low-energy House in Sisimiut (Greenland)

Posting Date | 17 September 2009

48 visits

Country | Denmark

Geographic Coverage | International

Theme | Design, engineering and labels of low energy consumption buildings

Show more details

design | measurements | Low-energy house | Arctic climate

A low-energy house was built in Sisimiut, Greenland in 2004-05 and since its inauguration in April 2005, its performance and operation have been object of study for researchers and students. The house is characterised by a highly insulated building envelope, advanced windows and a ventilation system with heat recovery, which should cut the energy consumption of the building to only half of what in 2006 became the permissible value in the Greenlandic building code. In addition to this, the house is equipped with a solar collector that supplies heat to the domestic hot water system and delivers auxiliary heat to a room in the building.

Description | The objective of the low-energy house project in Sisimiut was to build a house with so little energy consumption that it could be justified to call it a low-energy house – given the conditions of the Arctic location. The definition of a low-energy house is that it is a house which consumes only half the energy permitted in the building code. The building code of Greenland from 2006 permits annual energy consumption for heating and ventilation of 230 kWh/m2 for a single storey dwelling located north of the Arctic Circle. Given that this house has a ventilation system with heat recovery unit, it could be expected to consume around 70 kWh/m2 less heating energy, and thus the, the permissible energy should be only 160 kWh/m2, although there is official specification like this in the building code, since it does not assume dwellings to be equipped with a ventilation system with heat recovery unit. As a low energy house, it was set as a target that the energy consumption for

Conclusion

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

Success will be achieved if
www.buildup.eu is popular!

Have a look!

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

BUILD UP
energy solutions
for better buildings

BUILD UP
energy solutions
for better buildings

www.buildup.eu

Thank you for your attention!

For further information:
Gilles VAILLE
E-mail: pr@buildup.eu
T: +32 2 340 30 69 / F: +32 2 345 17 84

www.buildup.eu

The European portal for energy efficiency in buildings

Directorate-General for Energy and Transport

BUILD UP
energy solutions
for better buildings

Intelligent Energy Europe

executive agency eaci for competitiveness & innovation

EUROPEAN COMMISSION