


APAT
 Agenzia per la protezione dell'ambiente
 e per i servizi tecnici


Development of European Ecolabel Criteria for Buildings

The European legislation framework

Arch. Pietro Novelli –
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 REGIONE
 TOSCANA

Development of European Ecolabel Criteria for Buildings
 First Ad Hoc Working Group Meeting – Roma, April 15 '08

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Legislation
Policy documents

Action Plan 2000-2006

"Action Plan to improve energy efficiency in the European Community"
 COM (2000) 247, 26 April 2000

3 actions are proposed to improve energy efficiency and security of supply:

- 1) integration of energy efficiency programmes in other EU non-energy related (urban and regional policy, tax policy, tariff policy)
- 2) strengthen existing initiatives on energy efficiency.
- 3) new policies and measures joint and coordinated.

Forecast "optimistic" oil price at 27 euros / barrel in the next 20 years

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Legislation
Policy documents

Green Paper on Energy Efficiency 2005

"Energy efficiency - doing more with less" COM (2005) 265, 22 June 2005 includes the following objectives:

- **Energy savings achieved with cost efficiency in the various sectors and avoid wastage of energy**
- **Energy efficiency as an opportunity for industry**
- **Reduction of energy dependence from third countries, in a context of high oil prices and unstable**

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Legislation
Policy documents

Commission Green Paper on March 8, 2006

"A European strategy for sustainable, competitive and secure" COM (2006) 105

6 identifies priority areas for action:

- 1) energy for growth and employment
- 2) security of supply
- 3) sustainable energy mix, efficient and diversified
- 4) fight against climate change
- 5) research and innovation for an EU energy policy
- 6) a coherent external energy policy

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Legislation

Policy documents

Action Plan 2007-2012

"Action Plan for energy efficiency: realising the potential" COM (2006) 545 19 October 2006,
the Commission estimated the potential energy savings in the following areas:

1) buildings housing	27%
2) buildings for commercial use and tertiary	30%
3) Manufacturing Industries	25%
4) transport sector,	26%

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Legislation

Policy documents

The EU Green Paper on adaptation 2007

On 29.06.2007 the EU Commission has approved the **"Green Paper on adaptation to Climate Change"** COM (2007) 354 which proposes 4 actions:

- 1) Integrating the adaptation to climate change in the current legislation and current policies;
- 2) Integrate adaptation to climate change in the external EU;
- 3) Develop knowledge in order to reduce the uncertainty deepening knowledge integrated with research on the climate;
- 4) To involve society, business and P.A. European Union to develop adaptation strategies and global coordinates.

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Legislation

The main European directives in the field of eco-efficient building



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Legislation

Main Directives

Construction products

Directive 89/106/CEE of 21 December 1988,
"on the approximation of laws, regulations and administrative provisions relating to construction products."

The construction products should allow the construction of works that meet the following requirements:

- Mechanical strength and stability,
- Security in the event of fire,
- Hygiene, health and the environment,
- Safety of use, and protection from the noise,
- Economy of energy and thermal insulation



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Legislation

Main Directives

Directive 92/42/EEC of the Council of 21 May 1992 "on the needs of performance for new hot-water boilers fed liquid or gaseous fuels."

"Essential requirements" of hot-water fed with liquid or gaseous fuels, and with a nominal power of 4 kW and 400 kW:

- standard boilers;
- low-temperature boilers;
- boilers gas condensation.

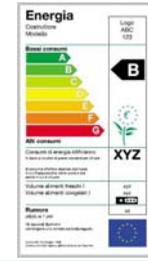


Legislation

Main Directives

Directive 92/75/EEC of the Council of 22 September 1992 "on the indication of consumption of energy and other resources by household, by labelling and standard product information products"

Discipline obligations technical description of household electrical appliances and information to be provided to the consumer



Legislation

Main Directives

Directive 2001/77/EC of the European Parliament and Council of 27 September 2001 "on the promotion of electricity produced from renewable sources of energy on internal electricity market"

It promotes a greater contribution of renewable energy sources to produce electricity

The aim is to achieve a **22.1%** share of electricity produced from renewable energy sources in total electricity consumption of the European Community by 2010



Legislation

Main Directives

Directive 2002/91/EC of the European Parliament and of the Council of 16 December 2002, "on the energy performance of buildings".

It includes four main elements:

- 1) **common methodology** for calculating the **energy performance** of buildings integrated;
- 2) the **minimum energy efficiency** of new buildings and buildings undergoing major restructuring;
- 3) **certification of new buildings and existing**;
- 4) **periodic inspection** of boilers and air centralized air conditioning in public buildings.

 **Legislation** *Main Directives*

Directive 2005/32/EC of the European Parliament and of the Council of 6 July 2005, "establishing a framework for the development of specifications for the design of environmentally friendly products that consume energy."

Fixed ecodesign requirements of energy-consuming products with the aim of:

- 1) Reducing the demand for energy during the life cycle Product
- 2) Reduce CO2 emissions by at least **24 Mt/year**
- 3) Prepare sustainable solutions



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 **Legislation** *Main Directives*

Directive 2006/32/EC of the European Parliament and of the Council of 5 April 2006, "on end-use efficiency and energy services and repealing Council Directive 93/76/EEC of the Council"

- 1) by **2015** Member States must achieve a "national goal of saving energy equal to **9%** of the national average annual consumption.
- 2) The PA must play an "**exemplary role**" in the pursuit of energy efficiency,
- 3) introduce guidelines on efficiency and savings in the criteria for award of **public contracts**.

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 **Thank you for your
attention**

Pietro Novelli architect-
Responsible "PO Sustainability of Local Development"

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