



EUROPEAN COMMISSION



Directive on the energy performance of buildings

2002/91/EC of 16.12.2002

OJ L 1 of 4.1.2003

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Lisbon, 22 October 2004



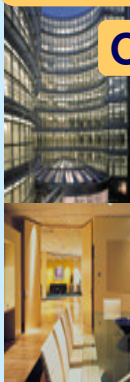
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Energy Performance of Buildings

**Directive 2002/91/EC of 16.12.2002
OJ L 1 of 4.1.2003, page 65**



Objectives

- Promoting the improvement of energy performance of buildings within the EU through cost-effective measures
- Convergence of building standards towards those of Member States which already have ambitious levels
- Savings potential of around 22% by 2010 for energy used in heating, air-conditioning, hot water and lighting



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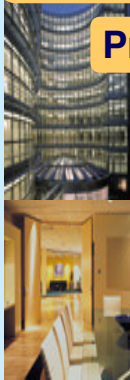
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Energy Performance of Buildings

Directive 2002/91/EC of 16.12.2002

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Proposed measures

- Methodology for integrated buildings energy performance standards
- Minimum requirements on new and refurbished buildings (over 1000 m²)
- Certification schemes for all buildings (new and old ones when sold or rented)
- Inspection & assessment of boilers/heating and cooling installations

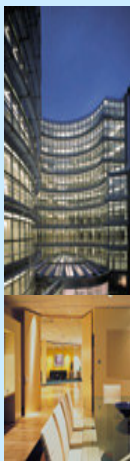


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Methodology for integrated energy performance of buildings



A common methodology for integrated minimum standards

The standards:

- **integrate** insulation, heating, cooling, ventilation, lighting, renewable energy installations, passive systems, CHP, DH/C, position and orientation of the building
- give **flexibility** to designers to meet energy reduction standards in the most cost-effective way
- can be expressed in **simple energy indicators**
- **are adopted by Member States** for different categories of buildings taking into account climatic differences



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Minimum standards for all buildings



New buildings

Application of the minimum energy performance standards to all new buildings

Consider the feasibility of renewable energy, CHP, etc for all new buildings over 1000 m²

Existing buildings

Application of the minimum energy performance standards to existing buildings greater than 1000 m² when the buildings undergo larger renovations

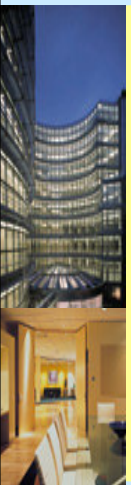


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Certification schemes for all buildings



Why?

- To facilitate the transfer of clear and reliable information on the energy performance of buildings
- To make energy efficiency more attractive

How?

Energy performance **certificates** for new and existing buildings should be available when they are constructed, sold or rented out

The certificates should:

- not be more than 10 years old
- be accompanied with advice on how to improve the energy performance
- be displayed in large public buildings and institutions (over 1000m²)

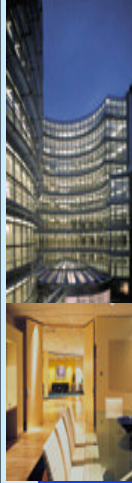


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Inspection and assessment of heating & cooling installations



Heating systems

- Inspected regularly boilers with an effective rated output between 20 kW and 100 kW
- Inspected every 2 years: boilers with an effective rated output over 100 kW
- Boilers larger than 20 kW and older than 15 years: the entire heating installations should be inspected. Advice should be given on alternative solutions which could reduce energy consumption

Cooling systems

Regular inspection of air-conditioning systems with an output of more than 12kW, including room systems used together.



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Implementation Timetable



- Adoption by European Parliament and Council of Ministers **16 Dec 2002**
 - Entry into force **4 Jan 2003**
 - Deadline for implementation **4 Jan 2006**
 - Laws,
 - Regulations
 - Administrative procedures
 - Training, etc
- (+ 3 years...)

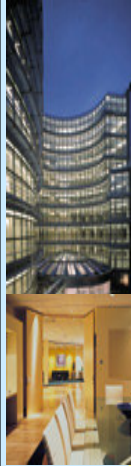


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National Activity



Subsidiarity items

In principle, the following are left to Member States or regions:

- Details of methodology (based on technical annex, taking account of existing and draft European standards by CEN financed by the EC)
- Setting of minimum energy requirements
- Details and format of certification systems
- Details of boiler/AC inspection/assessment
- Schemes



Current EU Activity



Energy Demand Management Committee

- Update Technical Annex (qualified majority)
- Evaluate Directive and make proposals (advisory)
- *Exchange of experience and information (voluntary)*
- Building a European network - Buildings Platform (2005) financed under the IEE programme (to help MS to share experiences and work together – web site, workshops, helpdesk, etc.)





Standardisation work



EU support to help MS implementation

- Industry and Member States support **harmonisation** of methodology using existing and new European Norms
- Support for European guidelines on energy performance certification protocol and format and on inspection of heating/cooling
- Why? To increase the **accessibility, transparency** and **objectivity** of the energy performance assessment
- Also to **reduce costs** for MS while ensuring flexibility for national and regional differentiation



CEN standards



- CEN will deliver a set of standards and an Umbrella Report, outlining the calculation procedure for assessing the energy performance of new and existing buildings.
- Challenge to strike the right balance between requirements and guidelines. For example, include operational and asset rating

Key Dates

- End of 2004 – pre-ENs drafts ready
- Early 2005 - full consultation launched
- By end of 2007 – Agreement on ENs





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***Thank you very much
for your attention***

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