

**ENERGY EFFICIENCY IN BUILDINGS**

**THE WAY FOR THE EU TO MEET ITS KYOTO COMMITMENTS**

**EuroACE**

**The European Alliance of Companies for Energy Efficiency in Buildings**

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In 1998, twenty-two of Europe's leading companies involved with the manufacture, distribution and installation of a variety of energy saving goods and services came together to form The European Alliance of Companies for Energy Efficiency in Buildings - otherwise known as the EuroACE project. Members employ half a million people and turnover is 150 billion euros across the EU.

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**EuroACE MEMBERS**

- Aereco
- Armacell International
- Bing
- BPB
- CRH
- Danfoss
- Eurima
- Giacomini
- Grundfos
- Honeywell
- Hunter Douglas
- Huntsman Polyurethanes
- Knauf Insulation
- Paroc
- Philips Lighting
- Pilkington
- Rockwool International
- Saint-Gobain Isover
- Siemens
- Skanska
- URSA
- VELUX

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**EuroACE - SECTOR REPRESENTATION**

[www.euroace.org](http://www.euroace.org)

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**IMPORTANCE OF THE BUILDING SECTOR**

Greenhouse gases

Origins of CO<sub>2</sub> emissions

**Conclusion:** Buildings account for 40-45% of CO<sub>2</sub> emissions

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**BUILDING EMISSIONS - SOME BASIC FACTS**

- Buildings are the single largest end users of energy in the EU
- 40% - 45% (average) in each member state
- 2/3 domestic – 1/3 commercial
- Space heating and cooling represents:
  - 70% in homes
  - 50% in commercial buildings

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### BUILDINGS - PRESENT TRENDS

- Between 1985 and 1997 average home size increased from 83<sup>2</sup> to 87m<sup>2</sup>
- During the last decade, in the services sector, energy consumption per m<sup>2</sup> increased faster than total area occupied, at an annual rate of 1.3%
- Since 1997, 50% of the increase in total energy demand has arisen in the service and domestic sectors (balance from transport)
- Transport sector +39% (1990 - 2010); service and domestic sectors expected to be similar

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### WHERE WILL THE REDUCTIONS IN EMISSIONS COME FROM?

Thermal insulation	Up to 200 million tonnes
Glazing	Up to 120 million tonnes
Controls systems	Up to 80 million tonnes
Lighting	Up to 50 million tonnes
<b>TOTAL</b>	<b>Up to 450 million tonnes</b>

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### EuroACE'S KEY MESSAGES

- Annual saving of up to 450 million tonnes of CO<sub>2</sub> by 2010 through building energy efficiency measures - more than 10% of 1990 emissions
- Implementation would create many jobs (estimated at 3.4 million job years)
- Almost all building energy efficiency measures are highly cost effective
- Measures undertaken during refurbishment are more cost effective
- In many instances the measures provide savings

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### MORE OF EuroACE'S KEY MESSAGES

- Technologies are available now
- Technologies are appropriate for new and existing buildings - refurbishment of existing buildings is a critically important step
- Energy savings could enhance the viability of renewable energy generation technologies
- Measures are highly appropriate to an enlarged EU - extreme climates and under-insulated buildings

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### GETTING THE EuroACE MESSAGE ACROSS

Appointments to:

- EC Policy Advisory Committee on Energy
- European Climate Change Programme (Working Group on Energy Consumption)
- EC Task Group on Sustainable Construction and Energy Efficiency (Chairman)
- Security of Supply Panel

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