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## ES-SO: INCREASED ENERGY SAVINGS & COMFORT FROM SOLAR SHADING

- ES-SO is the European Solar-Shading Organization, an umbrella trade organization for the solar shading industry in the EU's 25 member states.
- The European solar shading industry is an SME (small and medium-sized enterprise) industry, employing at least 400.000 people in thousands of companies, with a total annual sales volume in excess of 15 billion euro.
- The term 'solar shading' relates to a range of devices that keep the sun's heat and light entering the building under control: outside venetian or roller blinds, roller shutters, interior venetians, roman shades, pleated shades, etc, including curtains and other window coverings.
- Buildings are the largest energy-user in the EU. Increasing energy efficiency is one of the major policies in the context of improving competitiveness and security of supply of energy.
- ES-SO's recent scientific study proves that energy savings of up to ten percent can be obtained from the more systematic use of solar shading. First by reducing the cooling load of air conditioning systems or by eliminating the need for artificial cooling. Second, by enhancing the use of free, renewable solar energy sources. An automated solar shading system will let in welcome solar heat in the winter, to the benefit of heating cost.
- ES-SO demonstrates that solar shading greatly enhances indoor comfort, which is to the benefit of well-being, productivity and competitiveness.
- A more systematic use of solar shading will result in thousands of new local jobs, widely spread over all the member states, mainly because the industry supplies made-to-measure products to local markets.

## SOLAR SHADING CAN SAVE 10% OF TOTAL BUILDING ENERGY CONSUMPTION

- The scientific study shows that the feasible energy savings and carbon emission reduction from solar shading are very significant and represent an important part of the targets set by the European Commission.
- Expressed in million tons of CO<sub>2</sub> saved, the study shows **a potential of 111 Mt/a for the EU25**, with 31 Mt/a from reduced heating demand in winter time (i.e. use of renewables), and 80 Mt/a from lower cooling loads. The effect expected from the EPBD is 44 Mt/a at EU-25-level.
- The **potential reduction of oil demand is 43 MTOe/a, almost ten percent of the oil consumption in the building sector**, which in 2005 was 455 MTOe.

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