

To the editor

Media conference

From Kyoto to Copenhagen

ROCKWOOL®
STOP LOCAL WARMING

ROCKWOOL INTERNATIONAL A/S
Hovedgaden 584, Entrance C
DK-2640 Hedehusene
Phone: +45 4656 0300
www.rockwool.com

Page 1/2

9 October 2009

Better Life – Better Climate:

In the home of a Danish low-energy family

Bo Andersen and his family save vast amounts of CO₂ while at the same time enjoying a better quality of life. They built a well-insulated house in the Danish low-energy settlement of Stenløse South.

At the outskirts of Copenhagen - where in December negotiators from the entire world will convene to decide on the future of our climate – the Andersen family demonstrates how to build a better future. In modern society, buildings consume some 40% of our energy – mostly for heating, cooling and ventilation. But as the home of the Andersen's proves this waste of expensive energy and CO₂ can be reduced dramatically and easily with cost-efficient cleantech solutions at hand.

- We really enjoy our new home. We have a great indoor climate, completely draught proof. But on top that we have a low energy bill due to the efficient insulation, the triple-glazed windows and the modern ventilation system used in our house, says homeowner Bo Andersen.

Most homeowners around the globe tend to focus on the building costs of their new home – forgetting about the life-cycle costs of a building that will leak expensive energy and pollute CO₂ for decades if it is not insulated properly. The municipality of Egedal, in which the house on Mosekæret 7 is located, thus decided that all new buildings in the municipality must be low-energy and at least 50% more efficient than the Danish minimum requirements – which are already among the most stringent in the world.

- The extra costs of proper insulation, good windows and efficient appliances are limited. And they will be paid back by the energy savings many times in the lifetime of the building. Today, we have the technology to save 75% of the heating energy of a new Danish standard house. There is no need to wait. Every house not being built or renovated to best-practise is a missed opportunity, explains Jan Poulsen, climate and energy consultant of Egedal municipality.

The home of Bo Andersen is one of the high-end constructions, but the low-energy concept is also used in the local kindergarten and even in the flats built as cost-efficient social housing. Low-energy technology can thus also help fight energy poverty in vulnerable households.

To the editor

Media conference

From Kyoto to Copenhagen



ROCKWOOL INTERNATIONAL A/S
Hovedgaden 584, Entrance C
DK-2640 Hedehusene
Phone: +45 4656 0300
www.rockwool.com

Page 2/2

Facts about Bo Andersen's home:

Location: Mosekæret 7, Stenløse, Denmark. 30 km from Copenhagen.

Home size: 178 m² (50% larger than the average Danish home)

Rooms: 4 bed rooms, a study, a living room, 2 bath rooms, a scullery

Inaugurated: 2008

Land: 1000 m²

Annual heating consumption: 27 kWh/m² per year

(50% better than Danish minimum requirements)

Heating bill: DKK 500 per month (1/3 of many Danish homes the same size.

Energy is heavily taxed in Denmark in order to motivate efficiency)

Inhabitants: Bo (aged 42, engineer), Katrine (36, chemist), Karen (7), Esben (2)

Cleantech solutions:

- Insulation (400 mm of mineral wool in roof and 200 mm in walls)
- Triple-glazed windows with low-energy gas filling
- Ventilation system with heat-recovery (utilising the warm, humid air to pre-heat the fresh air intake from the outside)
- Heating and hot water:
 - 5 m² solar panel on the roof
 - Geothermal ground heat pump
 - Central air-to-air heat pump
- Water tank for the collection of rainwater. Used for flushing the toilets and washing machine. Saves ground water reserves. Relieves sewage system during intense rainfall.
- No PVC
- No pressure-creosoted wood

Prize of the buildings (house & garage): DKK 2.6 million (DKK 14,600 per m²)

Pictures from Bo Andersen's home

<http://www.brogaard.com/rw/>

Further information

Thomas Nordli, Group Communications, Rockwool International A/S

Thomas.nordli@rockwool.com www.rockwool.com

Mobile: +45 24 28 92 24 Direct: +45 46 55 80 33

See the climate video: mms://wms1.jay.net/rockwool/RI/Klimafilm_version_1.7_UK.wmv

Download more photos: <http://images.rockwool.com> - User Name: press - Password: Rockwool - Folder RI Press

Download illustrations and publications: www.rockwool.com/energy+efficiency/downloads