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**[ 01 ] Bosch to supply building technology and appliances  
for Eco Plus Home in Canada**  
Sustainable living without compromising on comfort

## Press Information

**BOSCH**

### Sustainable living without compromising on comfort **Bosch to supply building technology and appliances for Eco Plus Home in Canada** Independence from fossil fuels

August 2009

- ▶ Family of six to live without oil and gas in the Eco Plus Home for one year
- ▶ Website will display energy balances and enable dialogue with the family
- ▶ Electric heat pump, household appliances, solar thermal and photovoltaic technology to guarantee positive energy balance

Bathurst – Can a family of six live their everyday life without using fossil fuels for a whole year? This question will soon be answered by the Eco Plus Home project in Bathurst, New Brunswick, Canada, a project intended to demonstrate how a family lives eco-friendly in the fully fitted showcase house for one year starting this September. Energy balances of the household consumptions will regularly be published on [www.ecoplushome.com](http://www.ecoplushome.com). The website will also allow the family to share their experience with the public.

A webcam and weekly video blogs in English, German and French will document construction progress up to completion of the Eco Plus Home. The Kenny family – father Brian, mother Renee and their kids Tyler (14), Grayson (12), Shane (8) and Olivia (6) – plan to move into the house on September 13. “It’s an experiment that we feel is very important to do and we want to really show that if a family of six can do without fossil energies, it can be achieved by everyone,” said Renee Kenny.

Building technology and household appliances for the showcase house in the Eastern Canadian province of New Brunswick are provided by Bosch and its brands Buderus, Ersol and FHP. The installed products consist of an electric heat pump, a solar thermal system, a photovoltaic system as well as energy-efficient home appliances including an oven, a refrigerator, a dishwasher, a coffee maker, a washing machine and a dryer. The solar thermal system will generate heat and hot water from free solar radiation, while the heat pump uses geothermal energy. While the heat pump needs electricity to run, the photovoltaic system will

generate much more CO<sub>2</sub>-free electricity in the course of the year than the heat pump will consume. It is even planned to operate an electric car. Excess electricity will be fed into the public grid and withdrawn when needed. This way, it will be possible for the family to live comfortably in the house even through the harsh Canadian winter, when temperatures may drop to minus 30 degrees Fahrenheit or less, and still achieve a positive energy balance. CO<sub>2</sub> emissions from the Eco Plus Home will be close to zero, whereas a conventional home produces an average of eight tons of CO<sub>2</sub> per year.

"This house is a logical continuation of our sponsorship of Darmstadt University's entry to the 2007 Solar Decathlon project. While that winning house was essentially still a prototype model, the Eco Plus Home is now fully fitted with Bosch technology picked from our available product range. It demonstrates that complete reliance on renewable energies is feasible without people having to compromise on their lifestyles and that it is affordable. This approach will help end our dependence on fossil fuels and our exposure to constantly rising energy prices", said Mario Gross, Project Manager at Bosch Thermotechnology.

The project is being spearheaded by Tight Lines Productions Ltd., Canada, in partnership with Maple Leaf Homes, a Canadian manufacturer of prefabricated homes, and project developers Kenny Group. When planning the showcase house, emphasis was placed on sustainability without loss of comfort and on the price-performance ratio. Once the experiment is over, the aim is to offer the house in the US and Canadian markets.



**Caption:**

Electric heat pump, solar thermal, household appliances and photovoltaic systems – the building technology for the Eco Plus Home in the Eastern Canadian province of New Brunswick will be supplied by Bosch.

Source: Tight Lines Productions / Bosch



**Caption:**

In September the Kenny family will move into the Eco Plus Home (from left.): Olivia (6), Grayson (12), mother Renee, Tyler (14), father Brian and Shane (8).

Source: Tight Lines Productions / Bosch

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*Note: Figures based on 2008 conversion rate of 1 Euro = \$1.4710 U.S.; 2007 rate of 1 Euro = \$1.3704 U.S.*