

The Future is Now



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The Test house



- Maple Leaf Homes
- Bosch Group
- 12 Month test phase
- Efficient and affordable

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Global Situation

ECONOMY

Status quo: Heating, Mobility, Products based on oil

Fossil fuels: Limited (Supply and Demand)
Costs are not stable

Energy: Global Economy/Situations affects regional pricing

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Global Situation

ENVIROMENT

Timeline: Decades are depleating Millennia efforts

Fossil fuels: Harfull emisions
Disastrous delivery errors

Because in the end don`t we all want to save the planet ...

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Perception

- Currently energy efficient show houses, and demonstration homes seem to be popping up on every street corner. But the average North American has been left behind.
- Green living is thought to be for the rich, or the people most willing to sacrifice common comforts of today's society.
- The **EcoPlusHome** project is not only a bridge between theory and reality, but focuses on affordability and availability for the average North American.

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Market

- **Smaller**

Consumers are looking for a more manageable footprint. After 50 years of continual growth of square footage, the housing market shows a stabilization and regression in home sizes.
- **Smarter**

Comfort is no longer a luxury. Consumers expect their homes to operate at their convenience with little effort or learning on new systems.
- **Self Sufficient**

Consumers are environmentally conscious and are looking to offset their dependence on fossil fuels.

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EPH Basics

- **The question:**

Is it possible for an average family to live their everyday lives in a home, without relying on fossil fuels for one year?

- **The Project:**

We prove it's possible – visible for everybody over the internet, that the **EcoPlusHome** is a demonstration of alternative energies with monitoring and streaming of all energy data in real time.

- **Our goal:**

The **EcoPlusHome** is affordable and available for the average family in North America.

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Welcome to EPH



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The Envelope

- Prefabricated Home, Built by Maple Leaf Homes (Fredericton)
- Maple Leaf Homes superior air tightness
- Standard 2x6 wall construction
- R25 walls & R50 ceiling



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The Envelope



- The home arrived on site in 4 separate parts
- Home was erected in one day
- Finishing work was completed in under 2 weeks
- Energy Efficient ICF foundation provided by Bird Stairs (Nudura)

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Technology



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Technology

Photovoltaic

- Electricity Generation



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Photovoltaic



- 52 monocrystalline solar modules
- Active PV surface area: more than 900 ft²
- Installed PV output: appr. 12 kW/p
- Cal. grid feed-in (AC): 14.164 kWh/yr
- CO₂ emissions avoided: 27,661 lbs/yr (12.547 kg/yr)

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Technology

Photovoltaic

- Electricity Generation



BOSCH

Invented for life

Solar Thermal

- Domestic Hot water
- Geothermal Support

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Solar Thermal

4 Flate plate collectors

Delivered energy to system:
18.06 MBtu/yr

Solar storage DHW tank 500 liter



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Technology

Photovoltaic

- Electricity Generation

Geothermal

- Heating / Cooling
- Domestic Hot water support



BOSCH

Invented for life

Solar Thermal

- Domestic Hot water
- Geothermal Support

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Geothermal



Aquarius II ground source/air
(1st. stage = COP of 4.8;
2nd. stage = COP of 4.1)



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Technology

Photovoltaic

- Electricity Generation

Geothermal

- Heating / Cooling
- Domestic Hot water support



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Home Appliances

- Washer / Dryer
- Fridge / Stove
- Coffee Machine
- etc.

Solar Thermal

- Domestic Hot water
- Geothermal Support

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Home Appliances



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Overview

- Simply put the **EcoPlusHome** is a **proto type** for an affordable net zero prefabricated home model for average North Americans (U.S. and Canada) built in partnership with Bosch.
- Both the concept and the realities of EcoPlusHome have been gaining global attention
- Recognition – EcoPlusHome has been the feature of many articles, interviews and awards both nationally and internationally.

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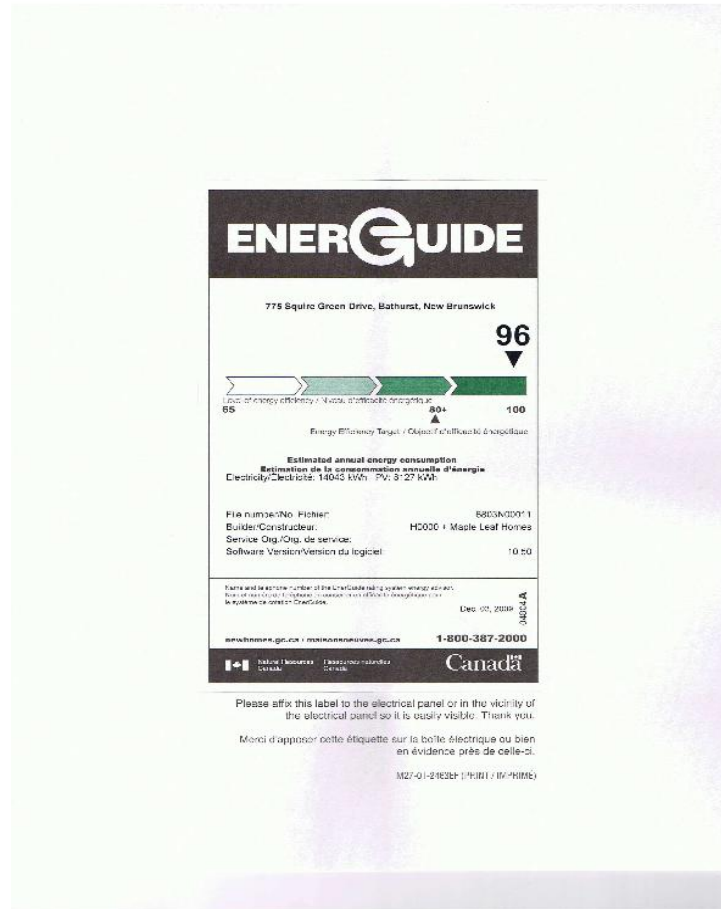
Advantages

- Highest energy efficiency at an affordable price
- Instant savings by offsetting current hydro bills
- Intergration of Federal and Provinal Energy Efficient incentive programs
- Quality control both in the Envelope design and technology
- Onsite installation by BOSCH factory trained technicians;
 - Plumber
 - Electrician
 - Geothermal

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Energuides 96



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Premiers Energy Efficiency Award



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Next Steps

The Future locations of
EcoPlusHome Development

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Fredericton

Meadows at Neil's Farm



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Moncton

Sterling Meadows



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Moncton

Sterling Meadows

First homes available May 2011



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Questions?

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