



Better Choices
Better Homes
Better Lives

Eco-Solar Home Tour – 2009

Saturday, June 6, noon to 4pm

Site #5: Effect Homes Energy-Efficient Home

Address: www.effecthomes.ca

Hosts:

Parking:

Directions: Rating:

EnerGuide 86

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www.climatechangecentral.com



Solar Energy Society of Canada Inc.
Northern Alberta Chapter
www.solaralberta.ca



www.cmhc.ca



A. Modern Energy-Efficient Show Home

→ See modern practical stylish show home with a blend of energy efficiency and innovative building practices.

B. Why this house is on the Eco-Solar Home Tour...

- To show that new homes can be energy- and water-efficient, use solar energy, and use sustainable materials.
- To highlight Alberta's new \$10,000 rebate for homes with more than an EnerGuide 86 rating.
- To show the features of a home designated as an EnviroHome by the Canadian Home Builders' Association

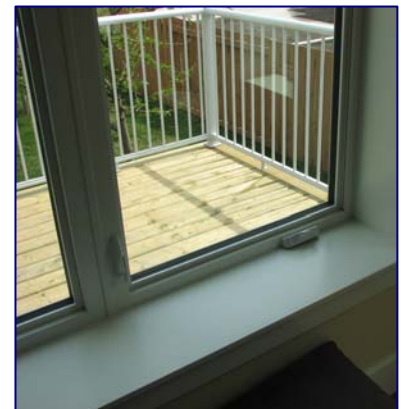
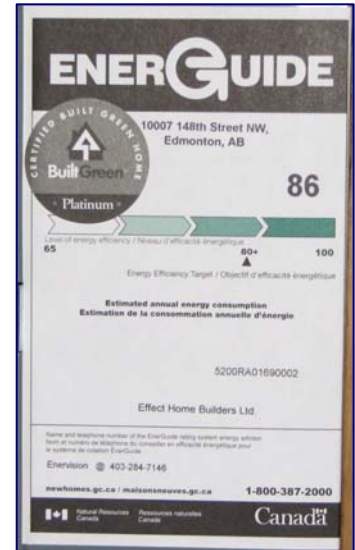
C. Features that save on energy bills and make the house very comfortable

- R50 cellulose-fibre insulation in the attic
- Insulation under the basement concrete slab
- Plasti-Fab Advantage insulated concrete forms (ICF) walls from the foundation to the roof – see model ICF wall to understand how it works
- Triple-pane low-e, argon-filled windows
- Air-tight wall construction that achieved a rated 0.63 air changes per hour in a 20 km/hour wind
- Air heat recovery on the ventilation system that pre-heats fresh air being brought into the house from heat in the air being expelled

D. Features that provide high-quality indoor air

- Ventilation system to bring in fresh air from the outside and exhaust stale house air
- Paints that have no or a low emission of noxious volatile organic compound (VOC) gasses

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Note: Items with a "→" symbol above are presented on the Tour.
"❖" will not be presented. "•" are information points.



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E. Features that save more on energy bills

- Highly efficient boiler-based heating system that heats a radiant floor system in the basement and forced air upstairs
- Drain water heat recovery unit that recovers 50% of the heat going down the drain from shower water
- Active solar domestic water heating system that saves 66% of the water heating costs



F. Features that save on electricity

- Solatube natural daylighting
- Beautiful east and south windows let sunlight in for passive solar heating and passive solar lighting
- Compact fluorescent light bulbs
- Solar electric ready -- conduit in place to run wires from the attic to the basement when a solar photovoltaic (PV) system is installed in the future.

G. Features that save on water bills

- Dual-flush toilets and low-flow faucets
- Stylish rain barrels under each downspout for watering the garden and landscaping
- Grey water ready – splits the black and grey water lines so that the homeowner can add a grey-water recycling system in the future when it is legalised



H. Features that use sustainable materials

- Fast-growing bamboo floors
- Carpets made of recycled nylon and that can themselves be recycled into new carpets
- Low maintenance siding & trim
- Designated recycle & compost bins
- Talk with the home builders and find out how where you can source these materials

I. Building Practices

- Recycling program diverting well over 50% of construction waste from landfill

