

Eco Solar Home Tour

Site #1. Riverdale Elementary School – Touch and Learn Eco-Fair

8901-101 Avenue, Edmonton riverdale.epsb.ca

Site hosts: staff and friends of Riverdale Elementary School

Come join the school's Eco-fair. Bring your kids; have lots of fun.

Come and ride the bicycle generator. Generate the electricity to make your own smoothie.

Touch and feel solar power, solar heating, and solar ovens with the solar demo trailer from the [Solar Energy Society](#).

Make cookies with the solar ovens.

City of Edmonton Recreation Co-ordinators will run kid's games.

See and learn about rain barrels so you can become more "water secure".

Come and learn how to plant native plants. Buy native plants for your yard.

Ride or bring your bicycle to the bicycle repair station.

Find out how this school is caring for the environment, caring for its community, and caring for your kids.

Site #3. Mills Geothermal House Retrofit

10821-79 Avenue, Edmonton www.thz.ca

Site hosts: Andrew and Karen Mills, Bull-Frog Power and colleagues

EnerGuide Rating: 79

See how a heat pump pumps heat from the ground to heat this 1949 home. They have NO natural gas bills! Get the details, the costs, the savings. Talk with the homeowner about getting heat from the ground! See all the photos of the heat pump installation and other energy- and water-efficiency house renovations at www.thz.ca. Learn how to be carbon neutral in your home's electricity, home heating and car with wind-generated carbon offsets from "Bullfrog Power".

Site #5. Belgravia Net Zero Energy House

11435-77 Avenue, Edmonton www.greenedmonton.ca

Site hosts: Bob Heath (homeowner) and members of the project team

Brand new ultra insulated home. Come and see water efficient design, water heat recovery, rainwater harvesting and cistern, air heat recovery, passive solar space heating (60%) and 2 solar PV systems, 1 connected so far.

Site #2. Pearson Maraj CHP ECo-Duplex

7615-111 Street, Edmonton

Site hosts: Vik Maraj and Sheryl Pearson (homeowners) plus members of the project team

See how electricity can be made from Natural Gas. This house has a natural gas generator in the garage which supplies electricity to the house as well as hot water for the space heating. See passive solar designs, solar thermal and solar electric ready, foam insulation, high thermal mass, R-50 walls, R-100 roof, in floor heating, glazed triple and quad pane fiberglass windows, concrete floors, LED lighting, and many more features.

Site #4. Mill Creek NetZero Energy Home

9805-84 Avenue, Edmonton www.greenedmonton.ca/MillCreekNetZeroHome

Site hosts: Conrad Nobert (homeowner) plus members of the project team

EnerGuide Rating 100.4

This is the second generation net zero energy house. It generates all of its own heat and electricity on an annual basis. No natural gas line. Electricity bill expected to be \$0 to \$200 per year.

See ultra-insulated walls. See large-window passive solar heating and how to control overheating in the summer. See active solar heating that supplies 90% of domestic water heating. See a remarkable moveable solar power awning that supplies all the house electricity, the rest of the house heating (!) and even supplies extra to the grid. See how a tiny wood stove and scrap construction wood provides 10 years of heating security. See sustainable house materials and finishes. See how to get high quality indoor air, recover heat from drain water, and recover heat from waste air.