



Better Choices  
Better Homes  
Better Lives

# Eco-Solar Tour—2017

Saturday, June 3 Noon until 4 pm

## NAIT Alternative Technology Program

**Address:**

**Hosts:** NAIT

**Parking:**

### A. See where the new generation of energy leaders are trained

- The NAIT Alternative Energy Technology Lab will be open to showcase the various technologies taught in the NAIT program. Students and staff will be on hand to show how the technology works and to answer questions about the NAIT program.



- ➔ People will be able to see representative equipment in the lab for most energy efficiency technologies.
- ➔ Tours will include the main lab, the roof of the building and possibly the City of Edmonton:NAIT Solar PV Reference Array.

### B. Most energy efficiency technologies under one roof!

- Representative technologies are showcased together in a cutting edge teaching lab. Some of the equipment is one of a kind (micro-flywheel) and were specifically designed for this program. Teaching equipment is available for the following technology disciplines:

- ➔ Solar PV
- ➔ Solar Thermal
- ➔ Geothermal
- ➔ Wind
- ➔ Biofuels
- ➔ Micro hydro
- ➔ Fuel cells



**Note:** Items with a ➔ symbol will be presented on the tour.  
Items with a ❖ symbol will not be presented.  
Items with a ● symbol are in formation points.

(Continued on other side)



# Eco-Solar Home Tour—2017

## NAIT Alternative Energy Technology Lab

(Continued from other side)

### C. Why the NAIT Lab is on the Eco-Solar Tour...

- Visitors to the Alternative Energy Technologies lab will learn about a variety of energy solutions including solar, geothermal, wind, micro-hydro, bioenergy and co-generation.
- Alternative Energy Technologies program graduates will typically find employment with build-design, mechanical engineering, and utility companies or work in community energy policy and planning.

### D. Features that save on heating costs

- ➔ All the hot water in the lab space is provided by two solar thermal and one geothermal system.

### E. Features that save on electricity costs

- ➔ Multiple PV arrays and one wind turbine are located across campus, providing distributed electricity generation.

### F. What is your biggest challenge?

- Trying to wrap our heads around such a broad set of technologies, all of which are experiencing rapid innovation, has been very stretching. There has never been a dull moment!



Making Cookies in the Solar Oven



Displays



Hydrogen Fuel Cell