



# Eco-Solar Home Tour 2025

Saturday 7 June, Noon to 5 pm

## Blatchford Energy Centre



**Tour Day:** Sat 7 Jun

**Address:** 2645 Blatchford Rd NW

**Hosts:** City of Edmonton

**Parking:** On Street

**Energuide Rating:** N/A



**Summary points why people need to see the Energy Centre**

- District Energy Sharing System
- One of North America's largest sustainable communities
- Largest industrial heat pumps in operation in Alberta
- Planned to be the largest District Energy Sharing System in Canada (at full build out).

**What will people learn about at the Energy Centre?**

- Centralized Geothermal (Geoexchange) system
- Extracts heat from 570 boreholes and circulates to the community
- Upgrades from ground temp (~4C) to 10 to 20C before circulation
- Homes extract heat for heating and hot water with a heat pump
- System provides renewable heating, cooling and hot water
- Uses a large heat pump to upgrade the thermal energy
- Homes benefit from geothermal without having to drill boreholes

**What are the main things people will see at the Energy Centre**

- Community energy centre
- The mechanical equipment for the district energy sharing system
- Stormwater pond with geoexchange field underneath

**Are there main items that they can't see?**

- Solar PV installed on the roof of the energy centre
- Geoexchange system under the stormwater pond





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## Blatchford Energy Centre

### Why is the Energy Centre on the tour?

Blatchford is an urban community in the heart of Edmonton, designed to be a great neighbourhood for families, a catalyst for transformational land development and a path towards a more resilient future. The project builds from a vision statement approved by Edmonton City Council in 2010: “Blatchford will be home to up to 30,000 Edmontonian living, working and learning in a sustainable community that uses 100 percent renewable energy, is carbon neutral, significantly reduces its ecological footprint, and empowers residents to pursue a range of sustainable lifestyle choices.” The community energy system plays a critical role in working to achieve the vision. Energy Centre One, located in a future civic plaza, contains the highly-efficient centralized system that provides renewable energy for heating, cooling and hot water to homes and buildings in Blatchford.



### What features save on energy costs?

- At the community energy centre, energy travels through a highly efficient heat pump that uses 1 unit of electricity to transfer 10 units of heat energy into the system (this is about 10X more efficient than traditional systems)
- The energy centre has been designed with sustainability at its core. The building has its own high-efficiency heating and cooling system that uses district energy, has a high-performance building envelope that reduces heat transfer between the inside of the building and the outdoors, ultra-high-performance windows, LED lighting and solar panels
- By implementing the comprehensive Blatchford energy strategy, homes and buildings will emit about 75% fewer greenhouse gas emissions than buildings in a typical neighbourhood.

### Other Special Features

- Stormwater pond with geexchange field.
- District heating customers avoid natural gas price fluctuations

