



Eco-Solar Home Tour 2026

20th June, Saturday Noon to 5 pm

Ranchlands NZR Home

Tour Day: 20th June, Saturday

Address:

Hosts: Homeowners

Parking: On street

Energuides Rating: 91 GJ/Year

Summary points why people need to see your home

- Net-Zero Ready Retrofit – Upgraded airtight envelope, high R-value exterior insulation, and energy-efficient design.
- Superior Windows & Ventilation – Triple-pane Innotech windows and an energy-recovery system for air quality.
- Modern & Functional – Stylish façade, fire-resistant cladding, and a 100 sq. ft. addition for better living.
- Future-Ready Upgrades – EV-capable electrical panel and water-saving fixtures.



What are the main things people will see and learn about at your home?

- Net-Zero-ready building envelope with continuous airtight membrane and added exterior insulation.
- Canadian-made, high-quality tilt-and-turn windows and doors by Innotech Windows and Doors for exceptional energy efficiency, airtightness, sound control, and durability/sustainability (40-60 year performance lifespan).
- Energy-recovery ventilation system for controlled air exchanges and removal of toxins (radon, VOC's, etc.) in homes with energy-efficient building envelopes.
- A building façade architecturally modernized with durable and fire-resistant metal cladding, with intriguing textural and visual contrasts.
- Tasteful addition of 100 sq. ft. of functional space at the front of the building to better suite the needs of modern family living.



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Why is this home on the tour?

This home is an example of a Deep Energy Retrofit (DER) completed in 2024 to the level of Net-Zero Ready (Phase 1 Net Zero Home) of a single-family home located in an established neighbourhood with ample green spaces, mature vegetation, and established communal structures. The owners have transformed this 45+ year old bi-level home outside and inside over the course of 1.5 years. The goal was to improve the functional layout of the home, give it a modern living ambience, and increasing its emotional and monetary value. The result is a home visually distinct from its surrounding with elevated living comfort and an energy efficiency that is 10% better than present, code-built homes of comparable size.



What features save on energy costs?

- Installed European-style triple-pane windows for exceptional thermal comfort and durability.
- Air sealing the entire building envelope by adding a modern, vapor permeable air barrier membrane to the exterior walls, and sealing penetrations and wall connections in the attic.
- Upgraded the insulation in the attic to 18 inches for an R-value of 70.
- Added 6-inch Rockwool mineral wool insulation to the exterior for an effective R-value of 30 for all above grade walls.
- Added 4-inch of XPS foam insulation to the concrete foundation perimeter walls.
- Removal of some of the main culprits of energy loss in single family homes, like traditional fireplaces and vented dryers.

What features save on water costs?

- Low-flow toilets and faucets/shower heads with aerator

Other special features

- Upgraded electrical panel to incorporate future electric vehicle charging capability

