



Eco-Solar Home Tour 2026

20th June, Saturday Noon to 5 pm

Charleswood Laneway Home

Tour Day: 20th June,

Saturday

Address:

Hosts: Homeowners

Parking: on street

Energuide: 32 GJ/yr



Summary

- Reduced Concrete Construction
- Foam and Steel Stud Foundation Walls
- Foam and Steel Stud Floor System
- Pre Fabricated Wall Panels filled with Straw to replace traditional fiberglass insulation
- CHE Roof Integrated Solar Panel System
- High Performance windows from Salamander from Poland
- Upgraded Electrical and Mechanical Efficiencies

What people will see and learn at your home

- Large 2 Bedroom Laneway Suite with a Garage and 2 Car Ports
- 21 Panel solar array on the South Roof
- Wall construction/ composition (viewport in wall)
- High Performance windows and doors
- Quiet interior
- Non-concrete garage floor slab
- Circuit monitoring
- Smaller, efficient hot water tank
- 2 Types of ERV's
- Carpentry shop in garage



Calgary





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Why is this home on the tour?

We decided to build a Laneway suite for my Mother-In-Law, and I wanted to reduce Operating costs and have the building set up to generate income on a long-term basis to offset the construction costs. It is built with a focus on the Lowest reasonable amount of Embodied Carbon and Maximum Efficiency. We achieve this by only using concrete for the footings (No other Concrete is used in this project) The Foundation is made of Foam and Steel Stud Panels, the Walls and Roof are a pre-fabricated system from Leduc and are packed with Straw, this achieves a High R Value Wall well over R-40 for the walls and R-60 for the Roof. We use a CHE Solar Frame that Generates more electricity than the building consumes and contributes to reducing the additional cost of the Property Tax. The Building is near Passive House Standard but will not be certified as a Passive House.



What features save on energy costs?

- Insulation
- Air Tightness
- ERV's with Duct Heaters
- Solar
- Drain Water Heat Recovery
- Heat Pump
- Induction Cooktop
- Energy and Circuit Monitoring

What features save on water costs?

- rainwater harvesting on the North Side of the Building
- 35-Gal Hot Water Tank

Other Features

- Recycled Brick Driveway
- EV Charger
- Full Carpentry Shop in Garage
- Garden Features
- Weather Station

