



Eco-Solar Home Tour 2025

Saturday 14 June, Noon to 5 pm

Highland Park NZE Town Home

Tour Day: Sat 14 June
Address: 420 37 Ave NW
Hosts: Homeowners
Parking: On Street
Energuide Rating: 0 GJ/year



Summary points why people need to see your home

- Sustainable Urban Density – See how this project integrates town homes, basement suites, and laneway homes to support Calgary's urban densification while reducing carbon impact.
- High-Performance Building Envelope – Experience innovative construction techniques like SI Construction polycore foundations, double-framed walls, and advanced air-sealing for superior efficiency.
- Electrification & Energy Savings – Learn how heat pumps, ERV ventilation, and high R-value insulation minimize energy use and enhance comfort.
- Lower Carbon, Cost-Effective Design – Discover how reducing both embodied and operational carbon can be practical and affordable in multifamily construction.

What will people see and learn about at your home?

- Townhome, basement suite, and laneway suite construction
- High performance foundation, walls, roofs
- Electrification





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Why is this home on the tour?

Calgary's efforts towards urban densification and the slowing of sprawl are a positive step in the direction of sustainability. The development of the "missing middle" (low density multifamily homes - from laneway and basement suites to townhomes) is increasing our stock and diversity of housing choice. But we are missing the opportunity to make these new homes contribute to our climate responsibilities - and the comfort and health of our occupants. This project is intended to demonstrate that we CAN reduce the embodied carbon (emissions from materials and production) and the operational carbon (emissions over time) in our new multifamily construction - and how we can do it cost effectively.



What features save on energy costs?

- 5.5" EPS foam insulated floors (no concrete slab)
- 13.5" EPS foam insulated foundation walls (concrete footings only)
- 10.5" Double wall with R40 dense packed cellulose
- Interior air/vapor barrier with mechanical/electrical chase wall
- Exterior air/weather barrier with rain screen strapping
- Heat pumps and backup electric resistance heating (and cooling!)
- Dedicated high efficient ERV ventilation for better indoor air quality/comfort

