



# Eco-Solar Home Tour 2026

20<sup>th</sup> June, Saturday 10am to 5 pm

## Springbank Passive House

**Tour Day:** Sat 20th June

**Address:**

**Hosts:** Builder

**Parking:**

o Some parking available at the house on gravel parking lot. Driveway off range road, do not park on gravel road or in the field adjacent to gravel road.

o This is an acreage, no wandering out of the designated areas.

**Energuides:** n/a



### Summary

- Passive House design, ultra-efficient, low-energy construction
- Exposed cross-laminated timber (CLT) mass-timber structure
- High-performance triple-glazed windows and quadruple pane skylight
- Airtight envelope; wood-fiber insulation and prefabricated components
- Air-source heat pump with mechanical ventilation for efficient heating and fresh air

### What the main things people will see at your home?

- Exposed mass timber structure CLT
- High-performance European style triple-glazed windows
- Woodfiber insulation
- Airtight detailing
- Prefabrication
- Air Source Heat Pump
- ERV
- Quadruple pane Skylight
- Interior construction underway
- Exterior construction complete.





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### Why is this home on the tour?

Designed to meet the Passive House Classic standard, the home targets exceptional airtightness, minimized thermal bridging, and very low operational energy demand. A prefabricated mass timber shell increases precision, reduces construction waste, and supports stringent performance goals. The building envelope incorporates wood fiber insulation and advanced air-sealing strategies to optimize thermal performance and durability. Exposed cross-laminated timber (CLT) provides structural strength while contributing to interior hygrothermal stability. High-performance European triple-glazed windows enhance U-values, control solar gain, and improve acoustic comfort.



A balanced mechanical ventilation system with heat recovery delivers continuous fresh air while retaining heat energy, supporting both efficiency and indoor air quality. A rooftop solar PV array is designed to offset annual energy use, targeting net-zero operation. This home demonstrates the integration of building science, prefabrication, and low-embodied-carbon materials in a cold-climate, high-performance residence.



### What features save on energy costs?

- High thermal mass construction materials, CLT and wood fiber
- CLT prefabrication
- Triple glazed European style wood metal-clad windows
- Air Source Heat Pump
- Well and Septic field
- super insulated slab on grade
- Airtight construction with ACH 0.4



### What features save on water costs?

- Well pump
- Efficient plumbing fixtures

### Other special features

- Acreage in the woods
- EV ready
- Space for future greenhouse
- Pond