



*Net Zero Energy Demonstration Project*



The ultimate in comfort and efficiency



1. What is a NZE new home?
2. How to build a NZE house?
  - 2(a) Typical Specs
3. Builder Requirements
4. How to get more information/get started

# What is a NZE new home?

## Concept

NZE -- A home that generates as much energy as it uses -- over the course of one year.

**NZEr** = NZE without the solar panels

# What is a NZE new home?

## Code

In the 2030 Building Code, all homes will be required to be constructed to NZEr standards.

# What is a NZE new home?

## Market

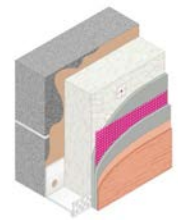
Early NZE adopters in Alberta, Ontario and BC report growing market place interest ...especially among millennials.

# How to build a NZE house

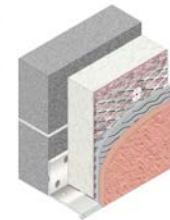
## Typical Specs



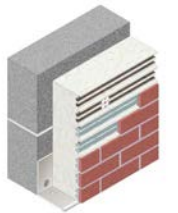
One-Coat System with Lath or Mesh



Polymer Render Systems



Traditional Render



Brick Slip Faced Systems

Ceiling

R60 - R-80



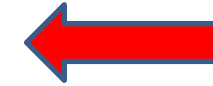
Main walls

R-30 - R40



Basement walls

R-30 - R40



Air tightness

< 1.0 ACH



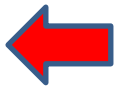
Windows

Zone 3 Energy Star



Heating/cooling

high efficient, modulated, heat pump



HRV

> 70% efficient



Drain Water

Yes



Lighting/appliances

LED and high efficiency



Solar panels

10 Kw



**SUN RIDGE**  
RESIDENTIAL INC.

Saskatchewan's Housing Science Experts



# Builder Requirements

Builders are responsible for complying with the Builder Agreement and meeting all program requirements. They build the homes and are responsible for ensuring that their homes meet the Program Technical Requirements.

They must provide attestation to CHBA that all program requirements have been met.

# Builder Requirements (cont)

1. Builders must be a member of CHBA.
2. Successfully complete the Net Zero Building Science and Builder Course
3. Become an EnerGuide (ERS) registered builder
4. Work with a Qualified Net Zero Service Organization (SO)
5. Use the CHBA NZE Sales and Marketing toolkit
6. Comply with other required items (pv, monitor, F280, etc.)

# How to get more information

*Technical 'drill down' session (zoom) this Friday at 10:00 am.  
Contact Nick Sackville to register.*

Builders work with a NZE Qualified Service Organization to...

1. help design their home,
2. do the analysis,
3. test and inspect the construction,
4. manage the documentation and
5. arrange for labels to be issued by NRCan and CHBA.

# How to get started

Sun Ridge is a Qualified Net Zero Energy Service Organization (SO) authorized in Alberta, Saskatchewan and Manitoba.

If you are thinking of building a NZE or NZEr new home, contact Sun Ridge to set up an initial meeting to discuss your project in greater detail.

# Next steps

1. Contact the Saskatoon and Region Home Builders' Association to register.
2. Contact City Land to inquire about & purchase a lot.



# netzero home

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