

# INSIDE THE NET-ZERO HOME



## Veggie-based insulation:

Carpets made from corn, paint made from soy and Forrest Stewardship Council-certified lumber and framing materials make up the insulation of the walls, floor, roof and basement.

## Wind power system:

Wind turbines on the roof provide energy inside the home.

**High-performance thermal windows, doors:** Reduces heat loss, increases daylight and passive solar heating.

**Solar panels:** Convert sunlight into electricity.

**Low-flow water fixtures:** Reduce hot water usage.

**Solar thermal heating system:** Mounted on the roof, solar collectors heat water used for radiant heating inside the home.

**Home energy manager:** A control panel inside the home that allows homeowners to manage energy consumption.

**Gray water recovery:** Sink, shower and washing machine water is collected and used for toilet flushing and for watering the landscape.

**Energy-efficient lighting:** High-efficiency CFL, LED and OLED lighting throughout the home

**Demand-response appliances:** High-efficiency kitchen appliances load from the grid.

**Surrounding land:** During land clearing, all trees that are removed are chopped for mulch, and all excavated materials are used for road base, backfill and topsoil.

**High-efficiency heat pump:** Indoor heat warms incoming air with pump.

**Geothermal heating and cooling system:** To avoid heat being lost, this system uses stable ground temperatures to regulate the heating and cooling of the home. It provides daytime heating and nighttime cooling.

