

Solar Power System

A fully engineered 48-volt photovoltaic system provides primary electrical service, delivering reliable, sustainable energy year-round.

System Components Include:

(18) south facing 240W solar panel array

Outback Power double inverter and charge controller with FlexWare system management

(6) EcoWorthy 105Ah LiFePO₄ deep-cycle lithium batteries (each with individual battery monitoring)

Hard-wired FIRMAN TO7571 fuel generator for backup power

Secondary single-battery 12V solar charging station with dedicated charge controller and its own 240W panel

Additional Outback inverter and charge controller in the Quonset building with two panels (expandable system)

All systems have been professionally installed and maintained by Yoder Solar, with continuous upgrades since the original installation in 2017.

Primary Heat: Outdoor Wood Furnace

Whole-home heating is provided by a premium Crown Royal 7300MP outdoor wood/coal furnace (installed March 2023).

Features:

20-year transferable warranty

Professionally maintained with annual water sample records

Installed on a 28×16 covered concrete pad with metal roof

Burns wood or coal — wood does not require splitting

Firewood harvested sustainably on the property

Clean installation with insulated underground feed lines

Hot Water & Heating Backup

Backup heat and domestic hot water are supplied by an IBCSFC199 propane boiler system (installed January 2021), providing seamless heating support when the outdoor furnace is not in use.

Private Well & Water Purification

The high-quality well water system ensures safe, clean water throughout the home.

Water Infrastructure Includes:

Kinetico Sentry 1 Open-Air whole-house purification system (installed October 2023; advanced aeration/oxidation filtration)

Culligan water softener

Pentair WellMate pressure tank

Two reverse-osmosis drinking water taps (kitchen and ground-level master bath)