
Off-Grid Property Specifications & Energy Systems Overview

Introduction

This document provides a detailed breakdown of the off-grid systems supporting this property, including solar power specifications, backup energy solutions, fuel storage capacities, water systems, and waste management. Designed for self-sufficiency, these features ensure reliable power, heating, and water access year-round.

1. Solar Power System

- **Total System Output:** 15.36 kW
 - **Number of Solar Panels:** 32 panels
 - **Panel Wattage:** 480 watts per panel
 - **Battery Bank Capacity:** 38.4 kWh
 - **Inverter Size:** 15 kW
 - **Charge Controller Type:** Sol-Ark
 - **Installation Year:** September 2023
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2. Backup Power Systems

Generator

- **Type:** Kubota Diesel
- **Output Capacity:** 20 KW
- **Automatic Transfer Switch:** Yes
- **Installation Year:** September 2023

Battery Backup (if applicable)

- **Battery Type:** Lithium-ion
 - **Storage Capacity:** 38.4 kWh
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3. Fuel Storage

Propane Tanks

- **Number of Tanks:** One (owned)
- **Total Capacity:** 250 gallons

Diesel Tanks

- **Number of Tanks:** Three 550-gallon tanks
- **Total Capacity:** 1650 gallons

4. Water Systems

Private Well

- **Depth:** 160 feet
- **Flow Rate:** 10 GPM (gallons per minute) on 1/13/25
- **Water Filtration/Treatment:** Water softener

Water Storage

- **Total Capacity:** 2500 gallons
- **Storage Type:** Above ground

5. Septic System

- **System Type:** Conventional
- **Tank Capacity:** 1500 gallons
- **Last Service Date:** March 2022

6. Heating & Climate Control

- **Primary Heating System:** Central boiler
 - **Secondary Heating System:** N/A
 - **Cooling System:** N/A
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