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

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

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