

Site

- Semi-detached bungalow 91m² about 15-20 years old
- Timber frame/fibre cement composite plank cladding, dryline plasterboard walls 260mm thick.
- EPC Rating A (94): Good insulation / wooden frame double glazing.
- LED ceiling lights x4 per room except main room
- Underfloor heating / no radiators / large wood burner but never used)
- Two wooden out-buildings with lights and ring main circuit power
- 2x beds, 1xbed/office, 2x bathrooms, internal utility, large combined living /kitchen, external utility housing the PV / ASH gear.
- 3 electric towel warmer/rails rarely powered.
- +Provide power supply to septic / sewerage plant which runs 24/7 consumes 9.8-10kW per day and supports 4 homes + 1 café/tea room.
- Main smart meter plus two subsidiary meters to monitor household v septic usage

ASH

- Commissioned in Nov 2020
- Heat pump and hydrobox supply TIC kW 5.00
- Daikin Altherma model EDLQ07CAV3 (low temp Altherma series Mini Mono)
- Flow temp 45° / SCOP 3.57
- Designed to provide Space Heat and DHW
- Daikin Control Box model: EKCB07CAV3
- Annual space heating demand: 5809.00
- Annual water heating demand: 7300.00
- Room heating 45°
- Water heating 55°
- Reheat time agreed with original customer.
- Owners advised not to switch heat pump off.

Immersion Cylinder

- Tank model (3rd party) Gledhill ASL0105 solar 300 unvented
- Cylinder capacity 300
- Controlled by 3rd party solar PV heat store system
- Daikin sensor fitted 0.78m² primary coil
- Booster Heater 3kW
- Set ABV to 14/min
- Installer deactivated legionella because no control over 3rd party tank
- Controlled by solar PV unit, installer advised owner that unit controls disinfection cycle.

PV

- 5.525 kWp PV system
- Sun power performance P3-325W Black solar panels x17
- Solar Edge SE 3680 HD Wave inverter
- Export limited to 3.68kW

Tesla Powerwall Gateway 2

- JBL20231G3J0BE
- Version 24.4.0
- 20% Backup / 80% Time-Based Control (sends to grid only at high value time periods)

Thermal Solar (Currently not operational)

- ferroli
- Pump was running hot – but on wiring inspection was found to be disconnected / 2 waygo visible
- 2 large solar panels on roof of utility

