

Solar systems at 357 Anakiwa Road

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Solar-Tube Hot Water Cylinder

Since our plumber recently installed the Heat-Pump Hot Water Cylinder (HPHWC), the solar-tube water heater is used as a pre-heater to the HPHWC. Typically in mid winter the pre-heat temperature can be in the mid twenties. In mid summer the pre-heat can achieve boil. Meaning the incoming HPHWC water exceeds its 60 degree operating temperature. In this case the Heat-Pump never starts. The HPHWC acts only as passive storage. Totally free hot water. Huge volume.

The Solar Tube Hot Water Cylinder is fitted with a 1500 Watt 230 volt element. Should it be needed.

When activated the HPHWC normally consumes 800 watts of mains power. Once per week the HPHWC automatically disinfects against legionella by activating an element to 70 degrees.

Twelve Volt Solar Home Lighting System

Installed by our electrician when the home reconstruction took place in 2008. Twelve volt Switch / Fuse panel is installed under the stairs.

Most rooms have a mixture of 230 volt and 12 volt lighting.

The main lighting in both bathrooms is 12 volt.

Solar Powered USB Device charging is built into the system - under the stairs

The battery and solar controller are within an enclosure on the main balcony. Three solar panels supply the battery charge.

An over-discharge device isolates (turns off) the battery if the system voltage runs below set limit of discharge.

Twelve Volt Solar Garage Lighting System

Installed about 2010. Provides 12 volt lighting throughout the garage and garden sheds. One solar panel mounted on the roof.

An over-discharge device isolates (turns off) the battery if the system voltage runs below set limit of discharge.

The battery and solar controller are adjacent to the garage switch/ fuse panel

There is a switch that links the home and shed systems into one connected system. In mid winter sustained cloudy weather it is possible to set up an automatic twelve volt charger (not included) to maintain reliable lighting in the home and garage.

Garage Solar Vehicle Battery Maintenance

Completely stand alone twelve volt system to maintain vehicle batteries to storage voltage.

Powered by a 20 watt solar panel this system has two cords with clamps in the garage. To maintain full voltage in stored vehicle and lawnmower. There is one cord in the boat storage carport to maintain the boat battery

SIXTEEN PANEL 230 volt Solar Substitution system NOT INCLUDED IN SALE

Will be dismantled and relocated elsewhere. This hobby system panels, controller, inverter and batteries will be relocated to our holiday home in Methven. Where of course, they will be mated to a wind turbine.

We leave in place - should the new owner choose to replicate

Disconnected 48 volt wiring throughout the garage and carport. No warrantee

Disconnected 48 volt wiring (duplicated) to home shade structure to garages. No warrantee

Disconnected 230 volt wiring from garage to home laundry. Cable disconnected at each end. No warrantee. Must be reconnected by registered electrician.

Disconnected 230 volt wiring to the garden hobby building. No warrantee. Must be reconnected by registered electrician.