



Little Willow  
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Revision 1.01

## Annual Service Visit

### 1.0 Initial assessment

#### 1.1 Visual inspection

##### 1.1.1 Existing roof

- Ensure fixings are showing no un-due wear on the roof.
- Ensure roof drainage is adequate, roof drains are not clogged, and confirm that there are no signs of water pooling in the vicinity of the array
- Check for vegetation growth

##### 1.1.2 Existing PV Array

- Confirm appropriate expansion joints are still adequate where used in long mounting rail runs
- Check for corrosion
- Check for signs of animal infestation under the array
- Solstice Energy are not licenced to remove vermin but will advise.

##### 1.1.3 PV modules

- Where accessible, check cable joints and degradation of cables
- Inspect PV modules for defects that can appear in the form of burn marks, discoloration, delamination, or broken glass.
- Check modules for excessive soiling from dirt build-up or animal droppings.

##### 1.1.4 Inverter

- Confirm proper system signage is still in place
- Check for dust build up or other obstructions to air vents
- Check for error warnings, or history of error warnings.
- Perform a visual inspection of the interior and exterior of the inverter. Look for signs of water, rodent, or dust intrusion into the inverter.
- Check for discoloration from excessive heat build-up



### 1.1.5 Testing

- Allow inverter to operate for at least 15 minutes
- Measure average module cell temperature
- Check cumulative kWh reading on meter against PVSYST simulated performance prediction.
- Check string voltage & current, module temperature and kW/m2 irradiance levels to compare between strings and with expected results.
- Check continuity of system ground and equipment grounding.
- Check loose hanging wires and their connections

## 2.0 Exclusions

- Parts are not included
- Additional visits for remedial work will be priced in advance

