

Case Study - Toodyay IGA 100kW



Toodyay IGA was the first IGA in WA to commit to installing a system of this size (100kW). The store owner Dean Carter also owns the building in which it is situated. Dean was encouraged to install solar by a friend who owns another IGA and was happy with the performance of his system.

The system comprises 400 x ReneSola 250W panels, 6 x SMA 15000TL inverters and 1 x SMA 10000TL inverter. The panels are installed with a portion flush mounted on the North roof and the remainder reverse tilt mounted on the South orientated roof. The design took into consideration and worked around the shading impact from the existing plant on the roof and the parapet wall that surrounds the building.

The system has been sized appropriately for their daytime consumption and covers about 25% of their total usage. It is also at the threshold of eligibility for the STC upfront incentive which is capped at 100kW.

Project Overview

Location: Toodyay, WA

Completed: March 2014

System size: 100kW

Roof Fixing Method: Flush & Tilt Mounted 10 Degree pitch

Products: - 400 x 250W Rene Sola 250W panels
- 6 x 15kW SMA Sunny Tri Power inverter
- 1 x 10kW SMA Sunny Tri Power inverter

Annual Energy Production: 151.11MWh approximately

Annual Greenhouse Gas Emission Reduction:
126.93 tonnes CO₂ e (CO₂ equivalent)

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" In the first couple of full bills we have seen since installation the system is saving us between \$100 and \$120 per day. This was during a period when it was raining etc. so we are expecting it to only get better in the warmer months."

Dean Carter
Toodyay IGA



Roof installation image