

## Case Study - Department of Housing - 413kW



The WA Department of Housing have approximately 40,000 homes under management. The department went to tender for the deployment of a solar PV trial of 1% of their homes - approximately 400 homes.

The basis of the trial was to identify the impact solar PV would have on the households through the installation of a 1kW system. Analysis of the impact from the solar PV systems is being undertaken by the Public Utilities Office. The key considerations included the cost effectiveness, management of the process from initial design right through to commissioning and after-sales support, and positive outcomes for both the department and the tenants.

It is also noted that this contract is the only one of its kind that the department has outside of its head building and maintenance contract with Transfield services. Solargain were chosen as the provider after several months of due diligence was carried out on all the tender submissions.

Aside from system yields and other technical considerations one of the most important aspects of the project was that the highest levels of adherence to OH&S standards was in effect.

### Project Overview

**Location:** Perth metro area

**System size:** 413kW (413 x 1kW systems)

**Roof Fixing Method:** Flush mounted to the pitched tile roofs

**Products:** - 1652 x 250W Renesola panels  
(413 x 4 x 250W panels)

- 413 x 1.6kW Sharp inverters

**Annual Energy Production:** 1.6MWh approximately per house

**Annual Greenhouse Gas Emission Reduction:**  
1.48 tonnes CO<sub>2</sub>e (CO<sub>2</sub> equivalent) per house

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In addition to safety measures such as harnessing and job safety analysis (JSA), the department also had KPIs that needed to be met in relation to electrical standards. Meeting those KPIs was an imperative part of the trial as the department is responsible for safety and maintenance of the homes they provide.

Western Power was engaged to carry out a large number of electrical safety audits on the systems installed.

Solargain exhausted all their effort and appropriate resourcing to ensure that the trial was a success. The success of the trial was an imperative step to enabling the roll out of PV systems on all the Department's homes in the years to come.

The 1kW systems deployed in the trial comprised 4 x Renesola 250W panels and 1 x Sharp 1.6kW inverter. The total kW capacity installed as part of the trial was 413kW.

*"Many thanks again for your commitment we have been very satisfied working with your team"*

Spokesperson  
WA Dept. of Housing

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Roof installation image