CPS National undertook a range of tests before and after mechanical panel cleaning was undertaken to ensure no adverse affects.

OVERVIEW

Engaged by SunPower, and in conjunction with SunBrush, CPS National looked at the condition of PV solar panels prior to, and after cleaning.

The range of testing took place on-site with the panels in situ, and included:

- Electroluminescence (EL) tests
- I-V curve tracing against Standard Test Condition (STC)
- Gloss meter reflectance test

EL testing inspects the panels for physical damage that cannot be seen by the naked eye, with the post result showing no damage.

After cleaning, both the I-V curve trace and gloss meter reading showed improved results.

PROJECT SCOPE

Test panels for both performance and damage both before and after mechanical cleaning by SunBrush robot cleaner

UNIQUE FEATURES

Undertaken under test conditions, CPS National could perform all required test on-site and with the panels in situ

OUTCOME

No adverse affect was detected after cleaning. Apart from showing better results due to the wash, the panels were unmarked and undamaged.