CPS National was engaged to undertake electroluminescence (EL) testing of solar PV panels that had released from their fixings under strong weather conditions during installation.

**OVERVIEW**

After intense and adverse weather affected a number of PV panels of a large solar install in western NSW, the actual damage to these panels was uncertain.

To ensure damaged panels were not left in commission, and undamaged panels were not discarded, CPS National was called upon.

With their electroluminescence (EL) image testing capability, CPS National can identify a range of defects to the PV modules that are invisible otherwise. These include inactive strings, micro cracking, cell breakage and fissures.

EL testing uses specialist imaging equipment and specified current flows to create images of the panel that will show any PV module defects.

The testing process identified that half the panels tested were in working condition. These panels could be re-commissioned, and the remaining panels discarded.

**PROJECT OVERVIEW**

- **Client:** HCB Solar
- **Location:** Newcastle, NSW

**PROJECT SCOPE**

Undertake electroluminescence testing of potentially damaged panels

**UNIQUE FEATURES**

CPS National is one of Australia’s only companies with on-site insitu EL testing capabilities

**OUTCOME**

Half of panels tested proved to be damaged beyond usability - although this damage could not be seen by the naked eye.

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EL Image

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