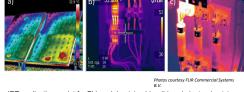
Infrared Thermography (IRT) Working Group

Scott McWilliams U.S. Photovoltaic Manufacturing Consortium (PVMC)

Infrared Thermography

Infrared Thermography (IRT) has been demonstrated as a tool that can be effectively used to improve the installation, maintenance and reliability of Photovoltaic (PV) arrays. IRT has multiple applications for testing components in a PV system:

- Modules
 - hot spot detection
 - shading events
 - cleaning cycles
- Power electronics
 - inverters
 - power optimizers
- Connector verification
- Predictive Maintenance (PdM)



IRT applications exist for PV modules (a), wiring (b) and electronics (c)

Program Focus

PVMC's IRT working group will develop:

- Applications
- Standards
- Best known methods (BKM)
- IRT curriculum/training specifically tailored towards Photovoltaic systems.

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IRT Working Group

A Working Group has been formed as part of the PVMC's Balance of Systems (BOS) and Power Electronics program.

Potential working group members are being actively recruited, and will include:

- IR camera manufacturers
- Module manufacturers
- Power electronics manufacturers
- BOS supply chain
- System integrators/installers
- Utility maintenance personnel

For further information about joining the PVMC IRT working group, please contact:

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