

International Standards, Best Practices, and Existing Taxonomies for oSDX Operations Workgroup

Name	Topic Area	Standard / Best Practice	URL
IEC/TS 61836 Ed. 3.0 Solar photovoltaic energy systems – Terms, definitions and symbols	Operations / Maintenance	Standard – Technical Specification	
IEC/TS 63019 Ed. 1.0 Information model for availability of photovoltaic (PV) power systems	Operations / Maintenance	Standard - Technical Specification	
IEC 62446-2 ed. 1.0 Grid connected photovoltaic (PV) systems - Part 2: Maintenance of PV systems	Maintenance	Standard	
IEC 62446-3 ed. 1.0 Photovoltaic (PV) systems-requirements for testing, documentation and maintenance - Part 3: Outdoor infrared thermography of photovoltaic modules and plants	Maintenance	Standard	http://www.iec.ch/dyn/www/?p=103:23:0:::FSP_ORG_ID
IEC 61724-1 Ed. 1.0 Photovoltaic system performance – Part 1: Monitoring	Operations	Standard	
IEC 61724-2 Ed. 1.0 Photovoltaic system performance – Part 2: Capacity evaluation method	Operations	Standard	
IEC 61724-3: Photovoltaic system performance – Part 3: Energy Evaluation Method	Operations	Standard	
IEC RE	Operations – Generally	Conformity Assessment	http://www.iecre.org/sectors/solarpvenergy/pv_entry.htm
ASTM E3010-15 Standard Practice for Installation, Commissioning, Operation, and Maintenance Process (ICOMP) of Photovoltaic Arrays	Operations / Maintenance	Standard	https://www.astm.org/Standards/E3010.htm

NECA 412-2012 Installing and Maintaining Photovoltaic Power Stations	Maintenance	Standard	http://www.necanet.org//store/product/neca-412-2012-s-photovoltaic-%28pv%29-power-systems-Booklet
Solar ABCs PV System O&M Fundamentals	Operations / Maintenance	Best Practice	http://www.solarabcs.org/about/publications/reports/op35-2013.pdf
NREL Best Practices in PV System Operations and Maintenance	Operations / Maintenance	Best Practice	http://www.nrel.gov/docs/fy15osti/63235.pdf
2010 IREC PV Field Inspection	Maintenance	Best Practice	http://www.irecusa.org/publications/field-inspection-guid
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End-of-life management: Solar Photovoltaic Panels, 2016.	Decommissioning	Best Practice	http://www.irena.org/menu/index.aspx?mnu=Subcat&Pril
California Senate Bill 489 – Hazardous Waste: Photovoltaic Modules (approved, but waiting for next step by EPA)	Decommissioning	State Law	https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml
PV Cycle voluntary best practices	Decommissioning	Best Practice	http://www.pvcycle.org/homepage/
First Solar recycling process	Decommissioning	Mfg. led Best Practice	http://www.firstsolar.com/en/technologies%20and%20ca