

# **Solar America Board for Codes and Standards (Solar ABCs)**

Larry Sherwood  
Project Administrator

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Solar America Board for Codes and Standards



# Solar ABCs

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Solar ABCs is a collaborative effort among experts to provide coordinated recommendations to codes and standards making bodies for existing and new solar technologies.

## Acknowledgement

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# Solar ABCs Steering Committee



NREL



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SHERWOOD ASSOCIATES

Solar America Board for Codes and Standards



# Solar ABCs

## Advisory Committee

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- Chair: Nick Chaset, California Public Utilities Commission
- Jim Baak, Vote Solar (also representing Solar Electric Power Association)
- Suzanne Borek, New Jersey Department of Community Affairs
- Adam Detrick, SunPower Corp.
- Mark Dougherty, Long Island Power Authority
- Smita Gupta, California Energy Commission
- Edwin Iracki, DuPont
- Tom McCalmont, ReGrid Power
- Rhone Resch, Solar Energy Industries Association
- Peter Varadi, Consultant
- Donald Warfield, BP Solar



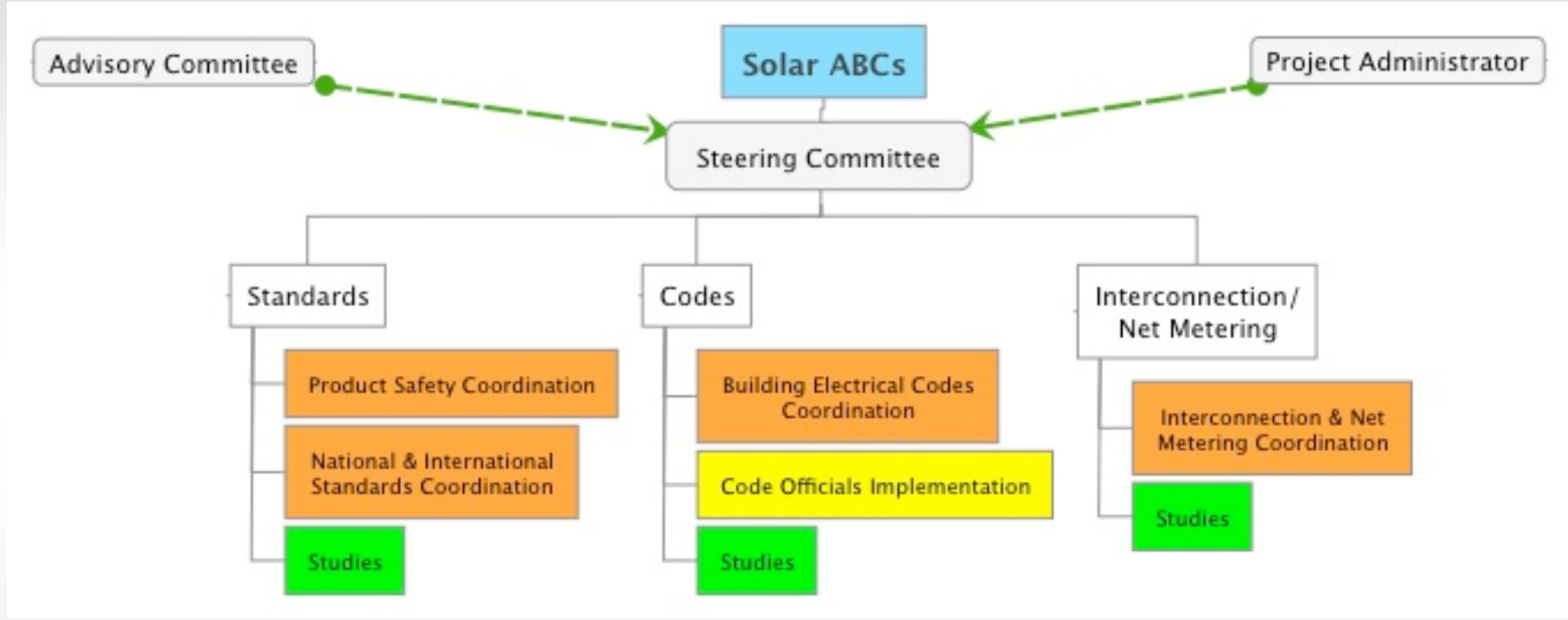
# Solar ABCs

## Advisory Committee

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- Developing new codes, standards, and policy is most effective when all stakeholder groups are represented in the process
- Stakeholders from cities and municipalities are now under-represented
- Currently soliciting nominations for Advisory Committee
- Would like to add a Committee member from local government and/or a Solar America City who understand unique requirements of codes and standards in their jurisdiction
- See <http://www.solarabcs.org> for more information





# Study Reports Completed

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- *A Comprehensive Review of Solar Access Law in the United State: Suggested Standards for a Model Statute and Ordinance*
- *Utility External Disconnect Switch: Practical, Legal, and Technical Reasons to Eliminate the Requirement*
- *Comparison of the Four Leading Small Generator Interconnection Procedures*



# Study Reports and Research Under Development

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- *Expedited Permitting for PV Systems*
- *High Wind Loads and Model Codes for PV Arrays*
- *Crystalline Silicon Terrestrial Photovoltaic Cells – Supply Chain Procurement Specification Guideline*
- *Impact of Advanced Metering Infrastructure on Small Distributed Generation*
- Fire Rating Research
- Module Nameplate Ratings



# Standard and Code Development

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- *National Electrical Code*®
- Building and Fire Codes
- National and International Standards
  - International Electrotechnical Commission (IEC)
  - IEEE
  - Underwriters Laboratories (UL)
  - ASTM International
  - SEMI



# Implementation

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- Communication about reports
- Training
- Fire Safety



# Gap Analysis

## High Priority Topics

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- Standardization of module power rating
- System Energy Performance Standard
- Standards to certify the accuracy of inverter meters
- Accelerated life testing for safety, reliability and durability of modules and the components used in modules
- PV Module frame grounding issues
- Roof-top PV module-specific fire research, testing and ratings systems
- National Fire Safety Guidelines for roof-top PV systems
- Revise building codes to address PV specifically
- Review and suggest updates to FERC interconnection screens
- Rate Impact of Net Metering.



# Opportunities for Involvement

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- Stakeholder Meetings
- Quarterly Newsletter
- Comment on draft Reports and other documents
- Apply for Advisory Committee

<http://www.solarabcs.org>



# For more information

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Larry Sherwood  
Project Administrator  
303-413-8028

[Larry@sherwoodassociates.com](mailto:Larry@sherwoodassociates.com)

