

AGENDA

Wind and Solar Power Coordinating Committee Meeting

IEEE PES General Meeting 2013 -- Vancouver
Thursday, July 25, 8:30 - 12:00 am, REN – Port of San Francisco
(check final program to confirm meeting room location)

Part 1: WSPCC Administrative Items

1. Review minutes of previous meeting

2. Wind and Solar Related sessions at 2013 PES General Meeting

Monday	Panel Session	Opportunities and Problems of Smart Grids with Large Penetration of Renewable Energy: Asian and Australian Experience
Monday	Paper Session	Best Papers on Integrating Wind, Solar, and Energy Storage
Monday	Transactions Paper Session	Advancements in Wind Generation
Tuesday	Combo Session	Working Group on Dynamic Performance of Wind Power Generation and Panel Session on Modeling and Dynamic Performance of Wind and Solar Generation
Tuesday	Panel Session	Power System Flexibility in Operations and Planning
Tuesday	Panel Session	Modeling and Dynamic Performance of Wind and Solar Generation
Tuesday	Panel Session	Advanced Controls for Wind and PV Systems
Tuesday	Panel Session	Behavior of wind turbines during unbalance grid conditions
Tuesday	Panel Session	The European Offshore Grid - First Steps
Tuesday	Panel Session	Advanced Automation Tech Hydro Wind
Tuesday	Transactions Paper Session	System Aspects of High Penetration of Wind Power
Tuesday	Transactions Paper Session	Renewable Resource Operations
Wednesday	Panel Session	Statistical Resource Modeling for Renewables Integration
Wednesday	Panel Session	Value of Conventional Generation Resources in the ISO/RTO Markets with the Penetration of Intermittent Renewable Resources
Wednesday	Panel Session	Case Studies of Experiences with Distributed Resource Interconnections on Distribution Systems
Wednesday	Panel Session	Control of Converter Interfaced DER connected at Distribution Networks
Wednesday	Panel Session	Distribution Feeder Hosting with High Penetration of Distributed PV
Wednesday	Panel Session	Electric Vehicle Integration with Renewable Energy Systems
Wednesday	Panel Session	Planning for Environmental Retirements and Renewable Integration
Wednesday	Panel Session	Flexible Infrastructure -- A Necessary Ingredient for the Renewable Energy Future
Thursday	Panel Session	Flexible Ramping Products to Support Renewables Integration
Thursday	Panel Session	Smart Distribution Analytics and Microgrids for Integration of DER - Part 1
Thursday	Panel Session	Smart Distribution Analytics and Microgrids for Integration of DER - Part 2
Thursday	Panel Session	International Practices and Techniques in Developing Alternative Energy

3. Technical Committee Program Chair Report (Jacobson)

4. Status of WSPCC Web Page (Manjure – for webmaster Miaolei Shao)

- Recently updated with assistance from Durgesh Manjure. <http://ewh.ieee.org/cmte/wpcc/>
- Anybody aware of new solar-related working groups that should be listed?

Part 2: WG, TF and Liaison Reports – Broad Coordination Discussions

5. Reports for Existing Wind and Solar Related WGs and SCs in PES

Note: Chairmen and Liaison Representatives presenting reports in this session are requested to bring a brief written report to the meeting and give it to the WSPCC secretary, Durgesh Manjure, for incorporation into the WSPCC meeting minutes.

- a) Renewable Technologies Subcommittee (ED&PG) – Rama Ramakumar
- b) Working Group on Photovoltaics (ED&PG) – Badrul Chowdhury
- c) Working Group on Dynamic performance of Wind Power Generation (PSDP) – Pouyan Pourbiek
- d) Wind and Solar Plant Collector System Design (T&D and EDPG) – Mitch Bradt
- e) Capacity Value of Wind Generators (PSO and PSACE) – Mark O'Malley, Michael Milligan
- f) Short Circuit Currents of Wind Generation (PSRC, EMC, T&D) – Reigh Walling, Dean Miller, Ron Harley
- g) Task Force on Protecting WTGs from Lightning Strikes and Surge Events (SPD) – Ken Brown
- h) Integration of Renewable Energy into T&D Grids Subcommittee (T&D) – Ernst Camm
- i) Task Force on Integration of Wind and Solar Generation into Power System Operations (PSO) – Jianhui Wang
- j) Renewable Energy Machines and Systems Subcommittee (EM) – Mohamed El-Sharkawi
- k) Wind and Solar Plant Grounding for Personal Safety Taskforce (T&D) – Gopal Padmanabhan
- l) Wind and Solar Power Plant System Impacts and Interconnection Requirements Working Group (T&D) – Tom McDermott

6. NERC: Integrating Variable Generation Task Force – Status Update (John Moura, NERC, John.Moura@nerc.net)

7. 2013 “Wind Power” Issue of P&E Magazine; Status Update (Charlie Smith)

Written summary of status update delivered to Bob Zavadil, 5/27/13

8. Status of Activities related to IEEE Standard 1547: Tom Basso (invited)

Alternates are Abe Ellis, Reigh Walling, Tom McDermott

9. Reports from Liaison Representatives to Other Organizations

- a) UVIG: Charlie Smith
- b) AWEA: Michael Goggin or John Dunlop

- c) CIGRE: David Jacobsen
- d) CANWEA: Tom Levy
- e) IEA Wind Integration Annex: Michael Milligan or Mark O'Malley
- f) NREL: Debbie Lew or Michael Milligan
- g) International Wind Activities: Antje Orths
- h) Reports from others who may be attending this meeting

Part 3: New Business & Future Directions for WSPCC

10. New WSPCC Initiative to Increase PES Activity in Solar Power

- WSPCC was previously focused on wind, but now scope is expanded to include solar power
- What should WSPCC do to encourage, facilitate, and coordinate PES activities related to solar power?
- Focus more activities on distribution system issues related to PV

11. Ideas for Wind and Solar Related Sessions at upcoming PES meetings

PES T&D Conference in Chicago, April 14-17, 2014

- Tutorials?
- Panel sessions?

PES GM in Washington DC, July 27-31, 2014

- Tutorials?
- Panel sessions?

12. New Working Groups / Projects / Activities

- Review progress on two old priorities:
 - o Market Design with Consideration for Intermittent Wind and Solar Resources (*Some recent activity*)
 - o Transmission Investment Alternatives to Serve Remote Wind (and Solar) Sites (*No Activity, chairman recommends we abandon this item*)
- Where is the industry going? What are the gaps in what PES is doing in wind and solar? Some ideas:
 - o PSO WG paper and/or panel session: How do emerging control performance standards (eg., BAAL) affect the amount of regulation and reserves required for wind and solar variability?
 - o T&D WG paper and/or panel session: HVDC transmission for offshore wind plants. (*This may have sufficient attention from the European activities.*)
- The new SPD working group is pursuing a standard for protecting WTGs from lightning and surges. Is it time to pursue any other standards projects? (*Not advocating; just asking.*)

Excerpts from WSPCC Web Page:

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Wind Power Coordinating Committee

Main Menu

- Home
- WSPCC Scope
- Officers and Contact Information
- Wind and Solar Related Working Groups and Task Forces in IEEE PES
- WSPCC Meeting Minutes
- Panel Sessions and Tutorials
- Resources

**Wind and Solar Related Working Groups and Task Forces in IEEE PES**

- * Working Group on Renewable Technologies
- * Working Group on Dynamic Performance of Wind Power Generation
- * Capacity Value of Wind Generation Working Group
- * IEEE Wind and Solar Plant Collector Design Working Group
- * Fault Current Contributions from Wind Plants
- * Task Force on Protecting WTGs from Lightning Strikes and Surge Events
- * Integration of Renewable Energy into the Transmission and Distribution Grids Subcommittee
- * Task Force on Integration of Wind and Solar Power into Power System Operations
- * Renewable Energy Machines and Systems Working Group
- * Wind and Solar Plant Grounding for Personal Safety Taskforce
- * Working Group on System Impacts and Interconnection Requirements of Wind and Solar Power Plants

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**WSPCC Scope**

- * Serve as a focal point within the Power and Energy Society (PES) for the identification of issues dealing with the integration and interconnection of wind and solar plants on the bulk transmission system.
- * Serve as the point of coordination for other organizations dealing with similar issues (such as AWEA, UWIG, FERC, CIGRE and IEC) and help identify the appropriate technical resources within the PES to address the issues.
- * Seek opportunities to conduct jointly sponsored activities to promote the sharing of knowledge and experience among diverse organizations working on similar issues through the conduct of studies, symposia, workshops, panel discussions, and tutorials.
- * Identify the need for guides, recommended practices, and standards with respect to the planning and operation of wind and solar plants connected to the bulk transmission system. Implement any required actions through cooperation with an appropriate technical committee.