

AGENDA

Wind and Solar Power Coordinating Committee Meeting

IEEE PES General Meeting -- San Diego
Thursday, July 26, 8:30 - 12:00 am, Ford C
(check final program to confirm meeting room location)

Part 1: WSPCC Administrative Items

1. Review minutes of previous meeting

2. Wind-related sessions at 2012 PES General Meeting

Monday	1:00 - 5:00	Advanced Controls for Wind Parks (panel session), Manchester G-TS
Monday	2:00 – 5:00	Operational and Market Challenges in Markets with High Penetration of Renewable Energy Sources (panel session); Manchester D-TS
Tuesday	8:00 – 12:00	Wind Park Modeling (panel session); Edward C-TS
Tuesday	8:00 – 11:00	New Planning Practices Considering Renewable Resource integration and Distributed Energy Resources (panel session); Emma B-TS
Tuesday	8:00 – 12:00	Impact of Wind Power Penetration on System Dynamics (paper session); Randle B-TS
Tuesday	8:00 – 11:30	Energy Storage for Renewable Integration in the Bulk Power System (panel session); Elizabeth A-TS
Tuesday	9:00 – 12:00	Transmission Security Issues Associated with System with Large Penetration of Renewable Energy Resources (panel session); Manchester E-TS
Tuesday	1:00 – 5:00	PSDP Working Group on Dynamic Performance of Wind Power Generation and Panel Session on Sub synchronous Interactions between Wind Generation and Series Compensation (combo session); Annie AB-TS
Tuesday	1:00 – 4:30	The European Offshore Grid - Inspiration to the US? (panel session); Elizabeth A-TS
Tuesday	2:00 – 5:00	Value of Conventional Generation Resources in the ISO/RTO Markets with the Penetration of Intermittent Resources (panel session); Manchester C-TS
Wednesday	8:00 – 4:00	Renewable Energy Integration into Smart Grids: Problems and Solutions – Asian and Australasian Experience (panel session); Elizabeth C-TS
Wednesday	8:00 – 12:00	PSPI Committee Main/Planning for Integration of Renewable Resources, DGs, and EVs into the Electric Grid (combo session); Edward CD-TS
Wednesday	8:00 – 12:00	Opportunities and Challenges of Integrating Wind, Solar and other Distributed Generation & Energy Storage (super session - panel); Elizabeth F-TS
Wednesday	8:00 – 12:30	Generation adequacy assessment: Computation methods and capacity value of solar (combo session); Manchester D-TS
Wednesday	1:00 – 5:00	Challenges for ISOs from Increased Penetration of New Energy and Ancillary Service Resources (panel session); Madeleine C
Wednesday	1:00 – 5:00	Impacts and best practices of large-scale wind power integration into electricity markets (panel session); Manchester F-TS
Wednesday	1:00 – 4:00	International Practices and Techniques on Alternative Energy in Developing Countries (panel session); Madeleine D
Wednesday	1:00 – 5:00	Tools to Handle Wind Generation for Power System Operation in Control Centers (panel session); Elizabeth D-TS
Wednesday	2:00 – 5:00	Curriculum Development: Transmission Expansion Planning for Systems with Renewable Energy Resources (panel session); Madeleine AB-TS
Wednesday	3:00 – 5:00	Renewables - Wind and Solar Power Plants: System Impacts and Interconnection Requirements WG (combo session); Ford C

Thursday	8:00 – 11:00	Distributed Energy Resources and Microgrids - Studies, Deployments and Best Practices (paper session); Oxford
Thursday	10:00 – 12:00	Renewables - Integration of Renewables into the T&D Grid SC (combo session); Ford A
Thursday	1:00 – 5:00	Wind Generation (paper session); Annie A-TS
Thursday	1:00 – 3:00	Current State and Promise of Grid-tied Solar Photovoltaics (panel session); Madeleine AB-TS

3. Technical Committee Program Chair Report (Jacobson)

4. Status of WPCC Web Page (Piwko)

- Recently updated with assistance from Durgesh Manjure. Webmaster is Miaolei Shao.
<http://ewh.ieee.org/cmte/wspcc/>

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

5. Reports for Existing Wind-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 WPCC secretary, Durgesh Manjure, for incorporation into the WSPCC meeting minutes.

Working Group on Renewable Technologies (ED&PG) – Rama Ramakumar

Standardized Wind Generation Models for System Planning Studies (PSDP) – Pouyan Pourbiek

Wind and Solar Plant Collector System Design (T&D and EDPG) – Mitch Bradt

Capacity Value of Wind Generators (PSO and PSACE) – Mark O'Malley, Michael Milligan

Short Circuit Currents of Wind Generation (PSRC, EMC, T&D) – Reigh Walling, Dean Miller, Ron Harley

Task Force on Protecting WTGs from Lightning Strikes and Surge Events (SPD) – Ken Brown

Integration of Renewable Energy into T&D Grids Subcommittee (T&D) – Ernst Camm

Task Force on Integration of Wind and Solar Generation into Power System Operations (PSO) – Bill Grant, Jianhui Wang, Dick Piwko

Renewable Energy Machines and Systems Working Group (EM) – Mohamed El-Sharkawi

Wind and Solar Plant Grounding for Personal Safety Taskforce (T&D) – Gopal Padmanabhan

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 (NERC representative or Charlie Smith)

7. Special “Wind Power” Issue of P&E Magazine; is one planned for November 2013? (Charlie Smith)

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

9. Reports from Liaison Representatives to Other Organizations

UVIG: Charlie Smith

AWEA: Michael Goggin or John Dunlop

CIGRE: David Jacobsen

CANWEA: Tom Levy

IEA Wind Integration Annex: Mark O'Malley

NREL: Brian Parsons or Michael Milligan

Reports from others who may be attending this meeting

Part 3: New Business & Future Directions for WPCC

10. New WSPCC Initiative to Increase PES Activity in Solar Power (60-90 minutes)

- WSPCC was previously focus 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?

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

PES GM in Vancouver BC, July 21-25, 2013

- Tutorials?
- Panel sessions?

12. New Working Groups / Projects / Activities

- Review progress on two old priorities:
 5. Market Design with Consideration for Intermittent Wind Resources *(Some recent activity)*
 6. Transmission Investment Alternatives to Serve Remote Wind Sites *(No Activity)*
- Where is the industry going? What are the gaps in what PES is doing in wind? Some ideas:
 - 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?
 - 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:



IEEE Power & Energy Society 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.