

# Massachusetts Wind Working Group

[www.ceere.org/rerl/mwwg.html](http://www.ceere.org/rerl/mwwg.html)

413-545-3914

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## February '07 Meeting Minutes

Location: MassBay College, Wellesley, MA

Date: 21 February 2007

1. Welcome & Announcements
2. Feature: Wind Power Interconnection: *presentations are posted on the MWWG webpage*
  - a. Sally Wright, UMass-RERL: introduction & brief technical overview
  - b. Henri Daher, National Grid: transmission policy perspective
  - c. Ed Kremzier, National Grid: utility perspective on wind interconnection
  - d. David Forrest, ISO New England: ISO role in wind interconnection
  - e. Fran Cummings, MTC & the DG Collaborative: jurisdictional and regulatory landscape
  - f. George Aronson, Commonwealth Resource Management: the developer's perspective
3. Next meetings
  - a. Tour of ISO New England, Wed, Mar 28, 3pm, in Holyoke.
    - i. Sign up by 3pm Thu, Mar 22: email name & affiliation (NEPOOL participants are not permitted) to [swright@ecs.umass.edu](mailto:swright@ecs.umass.edu)
  - b. Next meeting: Check the MWWG website to confirm
    - i. *Proposed Date & Time*: a Wed. in late May. 2007, 3-5pm. Please report related events so we can avoid conflicts
    - ii. *Place*: Eastern Mass
  - c. Please feel free to submit requests for agenda items or discussion topics

## **Materials on Grid Integration of Wind Power**

- Mass D.T.E. 02-38-D ISSUED: February 16, 2007, Order On Revised Model Distributed Generation Interconnection Standards And Procedures Tariff [www.masstech.org/dg/collab-reports.htm](http://www.masstech.org/dg/collab-reports.htm)
- Mass tech Collaborative’s Interconnection Guide for Distributed Generation: [www.mtpc.org/cleanenergy/howto/interconnection/index.htm](http://www.mtpc.org/cleanenergy/howto/interconnection/index.htm)
- AWEA’s Transmission committee is expanding into a “Transmission Committee and User Group”. See [www.awea.org/policy/regulatory\\_policy/transmission.html](http://www.awea.org/policy/regulatory_policy/transmission.html) for more.

## **Interconnection Jurisdictions**

### **Determination of jurisdiction & category by size:**

<b>Max Output</b>	<b>FERC Category</b>	<b>Max Output (kW)</b>	<b>MDTE Category</b>
<b>&gt;20 MW</b>	Large Generator Interconnection Procedure (LGIP)	<b>&lt;= 10</b>	<b>1</b>
		<b>&gt; 10 and &lt;= 60</b>	<b>2</b>
<b>&lt;= 20 MW</b>	Small Generator Interconnection Procedure (SGIP)	<b>&gt; 60 and &lt;= 300</b>	<b>3</b>
		<b>&gt; 300 and &lt;= 1,000</b>	<b>4</b>
		<b>&gt; 1,000</b>	<b>5</b>

<b><u>FERC jurisdiction</u></b>	<b><u>MDTE jurisdiction</u></b>
<i>Federal Energy Regulatory Commission</i>	<i>Mass Dept of Telecommunications and Energy</i>
Interconnection Request (to ISO-NE)	Notice of Intent to Interconnect (to local utility)
Feasibility Study (optional)	N/A
System Impact Study	Distribution Facilities Impact Study
Facilities Study (optional)	Distribution Facilities Detailed Study (required)
Interconnection Agreement	Interconnection Service Agreement

Contact your local utility for determination of jurisdiction:

National Grid: Tim Roughan, (508) 421-7510 or Ed Kremzier, (508) 389-3688

NSTAR: Joe Feraci, 781-441-8196

Western Massachusetts Electric: Cindy Janke, 413-585-1750

Fitchburg (UNITIL): John Bonazoli, 603-773-6456

ISO-NE: David Forrest, (413) 535-7584

DTE : Jesse Reyes, MA [Jesse.Reyes@state.ma.us](mailto:Jesse.Reyes@state.ma.us)

MTC: Fran Cummings, [cummings@masstech.org](mailto:cummings@masstech.org)

For more, see: [www.iso-ne.com/regulatory/tariff/sect\\_2/sch22/index.html](http://www.iso-ne.com/regulatory/tariff/sect_2/sch22/index.html) (LGIP), [www.iso-ne.com/regulatory/tariff/sect\\_2/sch23/index.html](http://www.iso-ne.com/regulatory/tariff/sect_2/sch23/index.html) (SGIP), [www.nationalgridus.com/masselectric/non\\_html/rates\\_tariff.pdf](http://www.nationalgridus.com/masselectric/non_html/rates_tariff.pdf)

### **Other timing considerations:**

- NEPOOL approval/notification (I.3.9 process)
- ISO-NE marketing process
- Qualifying Facility status required for sell back to local utility
- Facility interface/ownership structure

**Qualifying Facility (QF):** A generation facility that has received certification as a Qualifying Facility from the Federal Energy Regulatory Commission in accordance with the Federal Power Act, as amended by the 1978 Public Utilities Regulatory Policies Act (PURPA), as defined in 220 CMR §8.02.

## Announcements & News

- Hermann Scheer, the architect of the German model for promoting renewable energy, is on a US lecture tour. His Mass. stop will be tomorrow: Thurs. Feb. 22, 5:00 pm, at Harvard's Lessin Lecture Hall (G115) in Dworkin Hall, 33 Oxford Street. For more on Scheer see [http://www.hermannscheer.de/en/images/stories/pdf/Scheer\\_CV\\_en.pdf](http://www.hermannscheer.de/en/images/stories/pdf/Scheer_CV_en.pdf)
- Gov. Patrick has allowed the towns of Florida & Monroe to negotiate a PILOT (payment in lieu of taxes) agreement with the Hoosac wind project.
- DOER is reviewing proposed revisions to the RPS. See [www.mass.gov/doer/rps/rps\\_rule\\_revs.htm](http://www.mass.gov/doer/rps/rps_rule_revs.htm)
- New FAA turbine marking guidelines: [www.oaaaa.faa.gov/oaaaaEXT/content/AC70\\_7460\\_1K.pdf](http://www.oaaaa.faa.gov/oaaaaEXT/content/AC70_7460_1K.pdf)
- The 1<sup>st</sup> Skystream (2.8 kW, 12-ft-diam. from Southwest Windpower) in Mass. is up - just as you enter Hull.
- For more news, see the New England Wind Forum newsletter & website. December 2006 issue at [www.eere.energy.gov/windandhydro/windpoweringamerica/newengland.asp](http://www.eere.energy.gov/windandhydro/windpoweringamerica/newengland.asp)

## Attendance list

*MWWG meeting location: Wellesley, 21 February 2007*

*Jon Abe, Mass Renewable Energy Trust, MTC  
Jeff Armbruster, UPC Wind Management, LLC  
George Aronson, CommonWealth Resource  
Management Corporation  
Josh Bagnato, Executive Office for Energy &  
Environmental Affairs (EOEEA)  
Amy Barad, Mass Renewable Energy Trust, MTC  
Glen Berkowitz, Beaufort Power  
Bill Bogins, Marsh USA Inc.  
Nils Bolgen, Mass Renewable Energy Trust, MTC  
Brad Bradshaw, Group Veritas & Massachusetts  
Hydrogen Coalition  
John Carlton-Foss, Strategic Energy Systems  
Corporation  
Trevor Childs, Jay Cashman Inc.  
Rich Costello, Acela Energy Group, Inc.  
Fran Cummings, Mass Renewable Energy Trust,  
MTC  
Henri Daher, National Grid - Transmission  
Regulatory (NGRID)  
Philip DeVita, Epsilon  
Lynn DiTullio, Renewable Energy Research  
Laboratory (RERL) UMass, Amherst  
David Duehren, Brooktrout, Inc  
Melissa Elkinton, Renewable Energy Research  
Laboratory (RERL) UMass, Amherst  
David Forrest, ISO New England  
Jason Gifford, Sustainable Energy Advantage  
Susan Giordano, Second Wind Inc.  
Kristy Graf, Union of Concerned Scientists (UCS)  
Jan Gudell, Mass Division of Energy Resources  
(DOER)  
Joe Hackler, Woods Hole Research Center  
Debra Healy, Wellesley Municipal Light Plant*

*Bill Henson, Renewable Energy Research  
Laboratory (RERL) UMass, Amherst  
Kathy Hepburn, Marsh USA Inc.  
Rick Johnson, Varian Semiconductor  
Sue Jones, Community Energy Partners, LLC  
Dick Joyce, Wellesley Municipal Light Plant  
Lucia Kearns, Tetra Tech EC, Inc., Energy Program  
Brian Killkelley, Green Mountain Energy Resources  
Tom Klein  
Kevin Kotelly, US Army Corps of Engineers,  
Regulatory Division  
Edward Kremzier, National Grid (NGrid) New  
England Power Company  
Abigail Krich, Tamarack Energy  
Richard Lampeter, Epsilon Associates, Inc.  
Bruce Ledgerwood, Energy Consulting  
Tyler Leeds, Mass Renewable Energy Trust, MTC  
Bob Loebelenz, Lion Spring Farm, Lion Spring Sun  
Star  
Dennis Loria, Loria Emerging Energy Consulting  
Engineering Minuteman Wind, LLC  
Gordon MacFarland, Wind Works LLC  
David Mannix, Methuen Construction Co., Inc.  
Don McCauley, McCauley Lyman LLC, Minuteman  
Wind, LLC  
Patrick McDonnell, NSTAR Electric & Gas  
Mary Menino, Mass. Dept. of Telecom. & Energy  
(DTE)  
Erich Mettler, Clean Power Now  
Charlie Nadel, Advanced Energy Systems  
Development, LLC  
Nancy Nysten, Center for Ecological Technology  
(CET); Berkshire Renewable Energy Collab.  
Michelle O'Brien, Mackie Shea O'Brien, PC  
Rob O'Neal, Epsilon Associates, Inc.*

*Gerry Palano,  
Bryan Parmenter, Vanasse Hangen Brustlin, Inc.  
(VHB)  
Deb Pasternak, Lorax Energy Systems, LLC  
Kristen Patneau, MWRA - Deer Island Treatment  
Plant  
Philip Posner,  
Joy Prescott, Woodlot Alternatives, Inc.  
Sue Reid, Conservation Law Foundation (CLF)  
Jon Ricker, Mass Megawatts, Inc.  
John Rogers, Union of Concerned Scientists, Senior  
Energy Analyst. Northeast Clean Energy  
Project Manager  
Leo Roy, Vanasse Hangen Brustlin, Inc., (VHB)  
Massachusetts Environmental Services  
Keren Schlomy, Attorney at law  
Endymin Seiler, NH Wind Energy Assoc.  
Farrell Seiler, New Hampshire Wind Energy  
Associates  
Bob Shatten, Boreal Renewable Energy  
Development  
Andy Stern, Bedrock Wind*

*Jim Sweeney, Sustainable New Energy  
Newell Thomas, Lighthouse Electrical Contracting,  
Inc.  
Brian Tracey, Mass Division of Energy Resources  
(DOER)  
Joe Turnbull, CyberNauTech  
Fred Unger, Heartwood Group, Inc  
Liz Walls, Renewable Energy Research Laboratory  
(RERL) UMass, Amherst  
Steve Walton,  
Steve Weisman, Minuteman Wind, LLC, Peregrine  
Energy Group  
Barry Wenskowicz, Narragansett Bay Commission  
Tom Wineman, Clean Energy Design; Cape and  
Islands Self Reliance (T.J. Design  
George Wood, Oak Point Energy Associates  
David Wright, SweetBriar  
Sally Wright, Renewable Energy Research  
Laboratory (RERL), UMass, Amherst  
Kat Wright, SweetBriar  
Yuki Yamamoto, Oceanwind Technology*