

Massachusetts Wind Working Group

www.ceere.org/rerl/mwwg.html

413-545-3914

August '06 Meeting Minutes

Location: DOER Offices, Boston, MA

Date: 29 August 2006

1. Welcome
 - a. David O'Connor, Commissioner of Massachusetts Division of Energy Resources, spoke about the new state energy plan and wind power's role in Massachusetts' energy future (see <http://www.mass.gov/doer/>)
 - b. Kate Smolski, GreenPeace, sponsor of our speaker's US tour, introduced Jens Larsen, who was the organizer of Middelgrunden, the cooperatively owned offshore wind power project in the city's harbor (for more on the tour, see www.greenpeace.org/usa/witnesstour)
2. Feature: Cooperative Development of Copenhagen's offshore wind project
By Jens Larsen of the Copenhagen Environment and Energy Office, and Energitjenesten København.
 - a. Technical Summary of Middelgrunden Offshore wind farm
 - i. 20 turbines @ 2 MW = 40 MW total, installed in year 2000
 - ii. Bonus 2 MW (now Siemens)
 1. Rotor diameter: 76 m
 2. Hub height: 64 m
 - iii. In the shoals of Copenhagen Harbor about 2 km from the city shores
 - iv. ~100 GWh/yr, or about 40,000 households
 - b. Joint Cooperative/Utility venture, very widely popular
 - i. The "Middelgrunden Wind Co-operative" owns half of the turbines. This Coop comprises ~8500 members, primarily local citizens, each investing relatively small amounts of money: ~95% of the members invested €500-3,000.
 - ii. The local municipal utility "Copenhagen Energy" owns the other half
 - c. Denmark has a history of both privately and cooperatively owned wind power, although policy has recently changed and there have been no new installations in recent years. The country makes about 20% of its electricity from wind power. A large majority of Danes want more wind turbines.
 - d. His presentation is posted on the MWWG website.
 - i. For more info, see also www.middelgrunden.dk/projektinfo/mg-pjece_300dpi_rgb.pdf
3. Announcements & Updates
4. Next meeting
 - a. Proposed date: Wed. 8th November 2006, 3-5pm. Check the MWWG website to confirm.
 - b. Location: UMass Amherst

Attendance list

MWWG meeting location: Boston, 29 August 2006

Jon Abe, Mass Renewable Energy Trust, MTC
Karen Adams, Army Corps of Engineers
Megan Amsler, Cape & Islands Self-Reliance Corporation
Mark Barnett, Foley Hoag LLP
Dave Beck, Jay Cashman Inc.
Lynn Benander, Co-op Power
Glen Berkowitz, Beaufort Power
Howard Bernstein, Mass Division of Energy Resources (DOER)
Dwayne Breger, Mass Division of Energy Resources (DOER)
Trevor Childs, Jay Cashman Inc.
Sam Cleaves, Metropolitan Area Planning Council (MAPC)
Tyke Crowley, Senator John Kerry
Martha Dansdill, HealthLink
Roger Dashner, Marshfield Planning Board; NStar
Lynn DiTullio, Renewable Energy Research Laboratory (RERL), UMass, Amherst
Dennis Duffy, CapeWind, Energy Management, Inc. (EMI)
Anthony Duros, Mass. Turnpike Authority (MTA)
Jason Gifford, Sustainable Energy Advantage
Aileen Giovanello, Tetra Tech EC, Inc.
Jim Gordon, CapeWind
Jan Gudell, Mass Division of Energy Resources (DOER)
Irina Gumennik, Tetra Tech EC, Inc.
Sean Harrigan, Rockport
David Heimann, Sierra Club, Energy Committee,
Raphael Herz, Mass Renewable Energy Trust, MTC
Mike Jacobs, AWEA
Rick Johnson, Varian Semiconductor
Rhoda Kanet, Hull
Richard Kerver, Alliance for Post-petroleum Local Economy
Kevin Kotelly, US Army Corps of Engineers, Regulatory Division
Brian Kuhn, Plymouth Energy Committee
Enid Kumin, Energy Facilities Siting Board (EFSB)
Jens Larsen, Copenhagen Environment and Energy Office
Richard Lawrence, Cape and Islands Self Reliance
Tyler Leeds, Mass Renewable Energy Trust, MTC

Bob Loebelenz, Lion Spring Farm, Lion Spring Sun Star
Meg Lusardi, Mass Division of Energy Resources (DOER)
Gordon MacFarland, Wind Works LLC
Thomas Mackie, Mackie Shea O'Brien, PC
David Mannix, Methuen Construction Co., Inc.
Michael Mayhew, Maine State Energy Program Manager
Don McCauley, McCauley Lyman LLC
Minuteman Wind, LLC
Gail McCormick, HealthLink
Richard Michaud,
Meredith Miller, Constellation NewEnergy
Lauren Miller, Clean Air - Cool Planet
Lee Mondale, HealthLink
Nancy Nysten, Center for Ecological Technology; Berkshire Renewable Energy Collab.
David O'Connor, Commissioner, Mass Division of Energy Resources (DOER)
Gerry Palano,
Alex Pless, Rockport Wind Energy Committee
Imran Qidwai,
Howard Quin, Epsilon Associates
Sue Reid, Conservation Law Foundation (CLF)
Mark Rodgers, CapeWind Associates
Dave Schropfer, Eastham, Selectman
Farrell Seiler, New Hampshire Wind Energy Associates
Christine Serrentino, Renewable Energy Research Laboratory (RERL), UMass, Amherst
Barbara Shapiro, Energy Facilities Siting Board (EFSB)
Bob Shatten, Boreal Renewable Energy Development
Kate Smolski, GreenPeace
Joseph Soares, Cape Light Compact
Andy Stern, Hull Wind
Fred Unger, Heartwood Group, Inc
Jack Wiggin, Urban Harbors Institute, UMass Boston
David Wold, AV Inc
David Wright, SweetBriar
Sally Wright, Renewable Energy Research Laboratory (RERL), UMass, Amherst
Yuki Yamamoto, Oceanwind Technology