SAVE THIS DATE!

ROOFTOP & BUILT ENVIRONMENT WIND TURBINE WORKSHOP

11th & 12th August 2010

Lawrence Livermore National Laboratory, University of California - Davis, and the National Renewable Energy Laboratory (NREL) will be hosting a technical exchange on the topic of Urban Wind and Built-environment Wind Turbines (BWTs).

The meeting will be Wednesday & Thursday, August 11 & 12 at NREL's National Wind Technology Center (NWTC), located 8km south of Boulder, Colorado (For a map to the NWTC, go to www.nrel.gov/visiting_nrel/directions_map.html).

This event will be an opportunity to share technical experience on modeling urban wind resources and practical experiences with BWTs.

The featured speaker will be Sander Mertens, author of "Wind Energy in the Built Environment" among other related research publications.

The goal of this meeting is to identify areas of future research and collaboration on topics related to wind energy in the built environment.

Due to space limitations, this invitation applies only to groups with technical information to share. Only 2 representatives from each group will be allowed.

If you are interested in attending, ***please RSVP*** with Arielle Wolfe (arielle.wolfe@nrel.gov 303-384-6925).

RSVP Required

Lawrence Livermore National Laboratory

UCDAVIS

NREL
NATIONAL RENEWABLE ENERGY LABORATORY

Rooftop & Built Environment Wind Turbine Workshop

Wednesday, August 11, 2010

8:15 – 9:00 Arrival/Badging & Breakfast

9:00 – 9:30 Trudy Forsyth – Welcome & Introductions

9:30 – 11:30 Sander Mertens – "Urban wind turbines, identifying a new branch"

11:30 – 12:30 Lunch

Data & Observations Presentations Moderator: Case van Dam

12:30 – 1:30 Graham Eastwick (Encraft) – "Lesson learnt during the Warwick Wind trials - a study of 23 roof and building mounted turbines" *(45 min. presentation, 15 min. Q&A)*

1:30 – 2:15 Craig Briscoe & John Breshears (ZGF Architects) – "A Portland Case Study: Predicted and Measured Results from a Small Wind Installation on an Urban Highrise" *(30 min. presentation, 15 min. Q&A)*

2:15 – 2:45 Marian Tomusiak (Museum of Science, Boston) – "Lessons from the Boston Museum of Science Wind Turbine Lab" *(15 min. presentation, 15 min. Q&A)*

2:45 – 3:00 Break

3:00 – 3:35 Case van Dam (UC Davis) – "Research on wind power in the built environment" *(20 min. presentation, 15 min. Q&A)*

3:35 – 4:10 David Lubitz (University of Guelph) – "Measurement and Assessment of the Wind Environment Near Low Rise Buildings" *(20 min. presentation, 15 min. Q&A)*

4:10 – 4:55 Patrick Moriarty (NREL) – "Aeroacoustics and vibration of wind turbine systems" *(30 min. presentation, 15 min. Q&A)*

4:55 – 5:40 Rich Peek (Cascade - Swift) – "Manufacturer's perspective" *(30 min. presentation, 15 min. Q&A)*

5:40 – 5:50 Remarks and end of 1st day

6:15 – 8:00 Dinner

Rooftop & Built Environment Wind Turbine Workshop

Thursday, August 12, 2010

8:00 – 08:30 Arrival/Badging

8:30 – 08:45 Welcome back/Recap

Modeling Presentations Moderator: Jeff Mirocha

8:45 – 10:00 Brad Cochran (CPP Wind) – "Modeling airflow over buildings using both wind tunnel data and CFD models" *(1 hr. presentation, 15 min. Q&A)*

10:00 – 10:45 Guillaume Dupont (Meteodyne) – "Use of a CFD model for wind assessment in the built environment – introduction to the UrbaWind Model" *(30 min. presentation, 15 min. Q&A)*

10:45 – 11:00 Break

11:00 – 11:30 Russell Tencer (Wind Products) – "Wind Analytics – Modeling software for small wind turbine siting" *(20 min. presentation, 10 min Q&A)*

11:30 – 12:00 Susan Stewart (Penn State) – "Mapping wind power resources around buildings" *(20 min. presentation, 10 min. Q&A)*

12:00 – 12:30 Jeff Mirocha (LLNL) – "Development of multi-scale mesoscale/LES/CFD modeling approaches" *(20 min. presentation, 10 min. Q&A)*

12:30 – 1:30 Lunch

Parallel Focus Group Discussions

1:30 – 2:30 Strategies for model improvement Moderator: Jeff Mirocha

2:30 – 3:30 Strategies for data improvement Moderator: Case van Dam

3:30 – 3:45 Break

Whole Group Discussions

3:45 – 4:45 Strategic outline of research priorities Moderator: Trudy Forsyth

4:45 – 5:00 Closing remarks

5:00 Adjourn, return badges