



# Wind Turbine Maintenance Programs Webinar

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**October 21, 2009**



## About UWIG

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- ◆ Established by 6 utilities in 1989 with support from EPRI and DOE/NREL
- ◆ Utility members from IOU, public power, and rural electric cooperative sectors along with RTOs/ISOs
- ◆ Includes associate members from wind development, equipment, and consulting community
- ◆ Non-profit corporation governed by board of directors from utility and ISO/RTO members
- ◆ Ex officio members include APPA, NRECA, EEI, and EPRI
- ◆ Has over 150 members from US, Canada, and Europe
- ◆ Focus on technical issues

## Evolution of UWIG Focus on O&M

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- ◆ It became clear several years ago that project/plant availability was quickly becoming a driving issue.
- ◆ UWIG had established four user groups focusing on integration/interconnection technical issues
- ◆ Established O&M User Group in 2005
- ◆ Re-organized user group format to reflect that of the successful Combustion Turbine Operations Task Force
- ◆ Only existing forum of its kind for wind plant/turbine owners/operators

# Wind Turbine Operations and Maintenance User Group Scope

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- ◆ Exchange experiences and explore issues related to wind turbine operation and maintenance
  - O&M of wind turbine and other plant components
  - Warranty and service contracts
  - Liability
  - Plant technician training
  - Condition monitoring and predictive maintenance
- ◆ Key activity is peer-to-peer information exchange, with focus on best practices
- ◆ Open to UWIG members who own, operate, or maintain wind turbines

## User Group Meetings

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- ◆ Two held per year
- ◆ Consist of a plenary session in AM focusing on a specific topic
- ◆ Followed by roundtables specific to a type of turbine – GE, Vestas, Siemens forums organized so far with Clipper, Suzlon, and Gamesa slated for future
- ◆ Roundtables facilitate open, frank discussion between owners/operators on issues and resolution
- ◆ Confidential discussions – no notes kept, participants sign a NDA – vendors and consultants can attend only upon invitation by roundtable chair

# Topics Discussed

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- ◆ Gearbox
- ◆ Blades
- ◆ Pitch and yaw
- ◆ Instrumentation
- ◆ SCADA
- ◆ Electrical Operations
- ◆ Safety
- ◆ Hazmat
- ◆ Lift Systems

## For More Information

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- ◆ Visit [www.uwig.org](http://www.uwig.org)
- ◆ Email [info@uwig.org](mailto:info@uwig.org)
- ◆ Contact
  - Sandy Smith, 865-218-4600 x 6141
  - Larry Barr, User Group Chair 209-836-1921

## About Today's Webinar

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Today's speakers include:

- ◆ Ryan Harry, BCS Inc.
- ◆ Buck Cutting, SMUD
- ◆ Chris Thomas, enXco
- ◆ Chuck Carter, Sandia National Laboratories

The presentations, along with a transcript and recording of this webinar, will be made available on the UWIG and Public Renewables Partnership web sites: [www.uwig.org](http://www.uwig.org), [www.repartners.org](http://www.repartners.org)