

Power Curve Working Group Agenda

15th Meeting, Thursday 10th March 2015, Senvion, Hamburg

Key Objective: To follow-up on the results of PCWG-Share-01

Welcome/Registration:

- 09.00 - 09.30: Tea/Coffee will be available.

Morning Session: 09.30 - 13:00

- 09.30 – 09.40 “Welcome”, Tomas Blodau (Senvion)
- 09.40 – 10.00 “Review of PCWG 2016 Road Map” Peter Stuart (RES)
- 10.00 – 11.30 **PCWG -Share-01** Follow Up:
 - Current Status, Peter Stuart (RES)
 - “Interpolation Issue”, Presentation from Axel Albers, WindGuard.
 - “Proposed New Interpolation Method”, Presentation from Daniel Marmander, Natural Power
 - Investigation of Outlying Results
- 11.30 – 11.45 Tea/Coffee Break
- 11.45 – 13.00 Future Intelligence Sharing Initiatives (**PCWG -Share-X**):
 - Define Actions required ahead of next PCWG -Share-2:
 - Process/Tool improvements to eliminate future erroneous outliers
 - Process/Tool improvements to make future participation easier/faster.
 - Proposed tweaks to PCWG-Share-01 definition document e.g. making shear optional to facilitate inclusion of nacelle LiDAR data.

Lunch: 13:00 – 14:00

Afternoon Presentation Session: 14.00-14:30

- **14.00 – 14.15** ‘Validation of Turbulence Enable Modelled Time Series & Mapping Inner and Outer Range’, Gil Lizcano (Vortex)
- **14.15 – 14.30** ‘Impact of the distance between mast and wind turbine on power curve measurement results’, Herbert Schwartz (Anemos-Jacob)

Afternoon Discussion Session: 15.00-16:00

15.00 to 15.30 IEC Standard Related Discussions

- New Candidate methods for PCWG -Share-2:
 - Define actions required to enable the inclusion of the proposed new candidate methods:
 - Rotor Equivalent Wind Speed Including Inflow.
 - 3D Power Deviation Matrix Method
 - Machine Learning

14.45 to 15.30 IEC Standard Related Discussions

- **IEC 61400-12 Related Discussion**
 - Preparation of IEC Uncertainty Methodology Round Robin.
 - Preparation of Open Source Consensus Examples for Key elements of standard.
- **IEC 61400-15 Related Discussion**
 - Preparation of Round Robin of ‘Simple Yield’ Calculation (including density correction) i.e. calculation of ‘reference yield’ from hub height distribution, power curve and density.

~~15.30 to 15.45 Harmonisation of Stakeholder Communications Discussion (item not covered)~~

- ~~• Review of new Check List Format for guidelines document.~~

Wrap Up 15.45 – 16.00

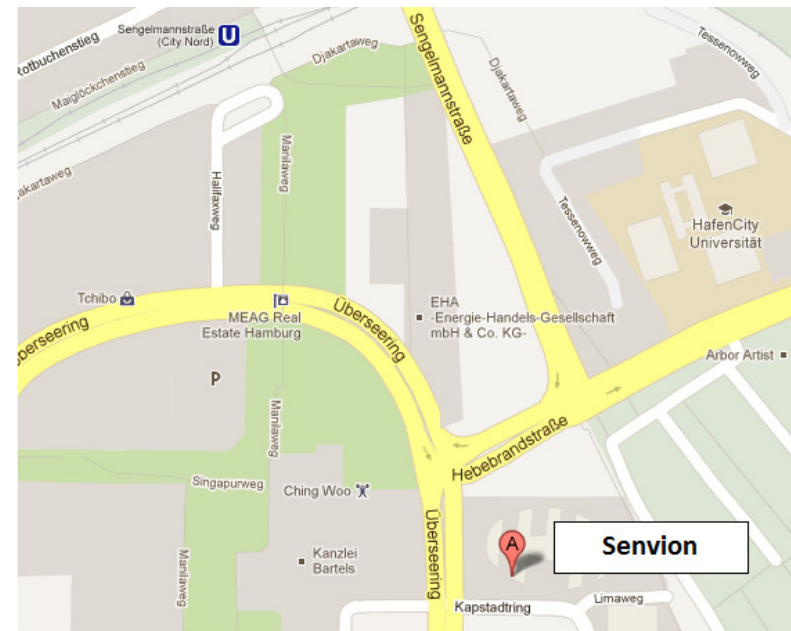
- 2016 Meeting Schedule
- Agenda and presentations for May meeting

Minutes of and Presentation of Previous Meetings: <http://www.pcwg.org>

Venue

The meeting will take place at Senvion's office in Hamburg. **Please ask for Tomas Blodau at reception.**

Senvion SE
Überseering 10
D-22297 Hamburg



Nearby Hotels

Leonardo Hotel City north, Mexikoring 1, 22297 Hamburg, tel: 00 49 40 632940 (100m from Senvion's office). <http://www.leonardo-hotels.com>

Transport

Hamburg has excellent air and train connections. The venue is approximately 10 minutes from the airport by taxi.