



VGB PowerTech | Wind

... is the first address for all operators of wind power plants regarding technical, environmental as well as strategic issues and acts as hub for the wind energy sector in Europe

VGB
POWERTECH



Angebote und Dienstleistungen von VGB PowerTech | Wind

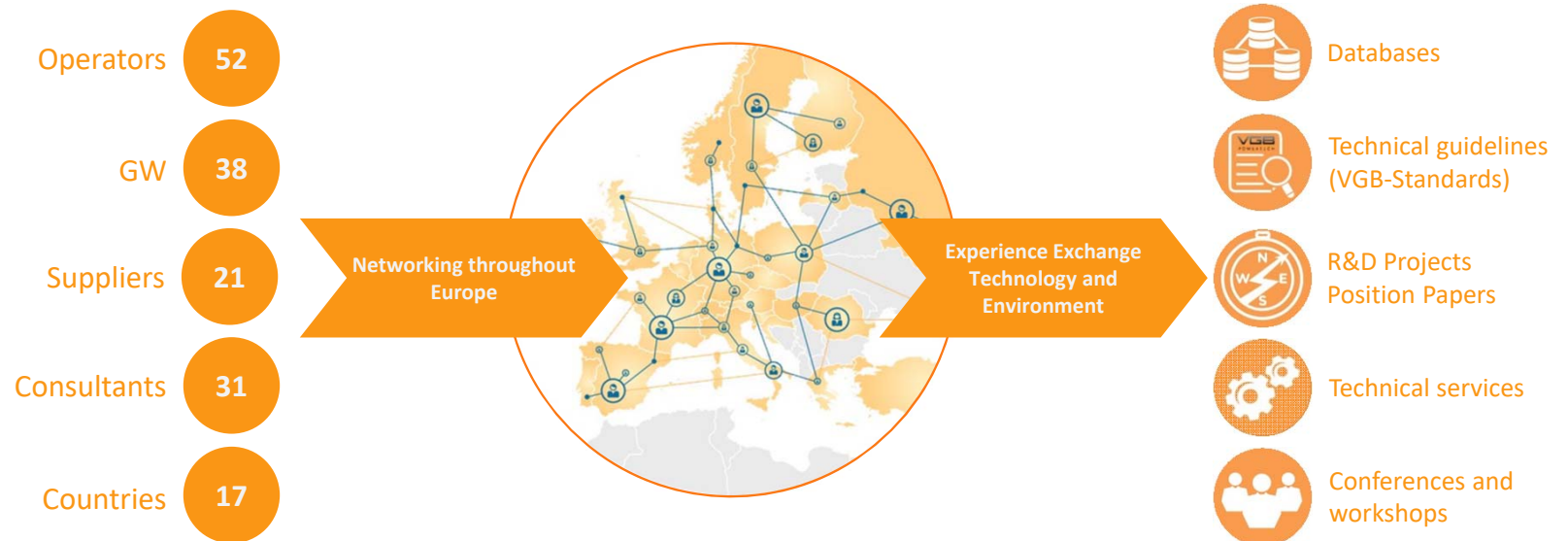
Ulrich Langnickel

Individual success through exchange of experience



Be part of the powerful operator's network

- VGB PowerTech e.V. is the international technical association for generation and storage of power and heat.
- Since 2001 VGB has provided a growing platform for owners and operators of wind power plants for sharing experience and knowledge at a high expertise
- Currently more than 130 experts participating in VGB wind energy committees



VGB PowerTech | Wind – Offers and Benefits



- **Strategic Forum Wind**
 - Technical Lobbying
- **Technical Committee Wind Energy**
 - Exchange of operational experience
- **User Groups Vestas and Siemens**
 - Requirements on specific wind turbines
- **VGB-Standards**
 - Reduction of O&M costs
- **Technical Group H&S Offshore Wind**
 - Increase of H&S management
- **Joint Research projects**
 - Cost sharing
- **Conferences / Workshops**
 - State of technology – Discussion

VGB-Standards (more than 12 documents are exclusively concerned with wind energy related topics)

➤ Completed

- DE/EN Provision of technical documentation (Technical Plant Data, Documents) for installation in the energy supply
- DE/EN Reference Designation System for Power Plants (RDS-PP®), Part 32: Wind Power Plants
- DE/EN Definitions and indicators
- DE/EN Fire protection in Onshore Wind Power Plants



➤ In progress

- DE/EN Corrosion protection of offshore wind farm structures (partly published)
- DE/EN Life cycle management of the foundation and tower of onshore wind turbines
- DE/EN Oil monitoring for wind power plants
- DE/EN Disposal of rotor blades
- DE/EN Management of warranty
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➤ Planned

- DE/EN Decommissioning of wind power plants

Benefit

Ordinary members of VGB have access to VGB-Standards in electronic format (eBook) free of charge. Special conditions are offered to affiliated and sponsoring VGB members.

<https://www.vgb.org/shop/>

Events

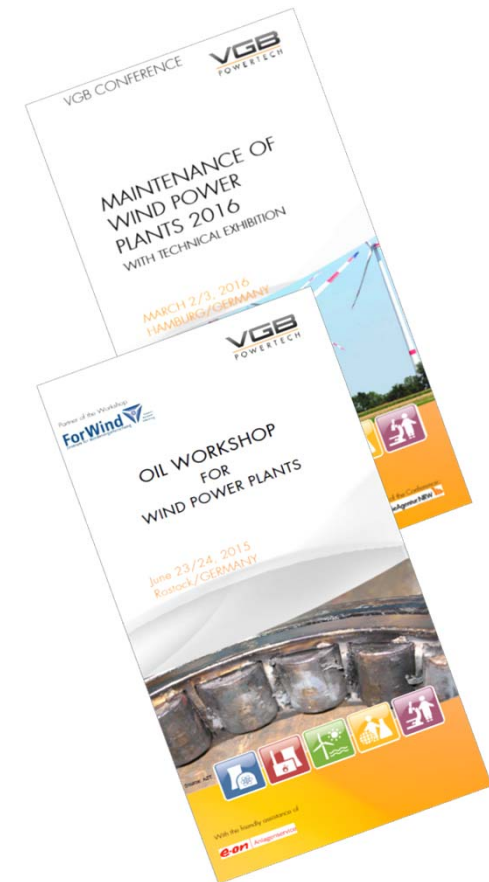
- 2019 Conference in Bremen “Maintenance of Wind Power Plants”
- 2019 Conference in Vienna “Operation of Wind Power Plants in Cold Climate”
- 2019 Conference in Vienna “Digitalization in the Wind Industry”

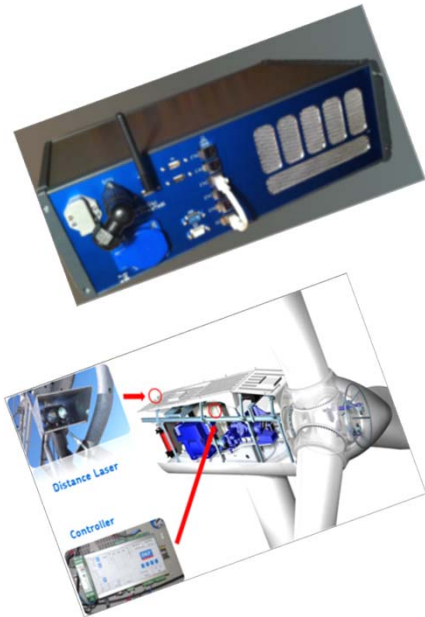
- 2005 - 2018 Annual Conference “Maintenance of Wind Power Plants”
- 2009 - 2018 Annual Conference “Offshore Wind Power Plants - Occupational Health and Safety”
- 2015 / 2017 Oil Workshop for Wind Power Plants

- 2018 IT-Security in the Wind Industry (internal VGB workshop)
- 2011 Health, Safety, Environment at Offshore Wind Parks

Benefit

Direct exchange of experience with experts at subject-specific events as well as newest information on state of technology. Reduced registration fee for VGB members.





Research Projects

➤ Completed, e.g.

- Development of an Asset Connection Box
- Condition Monitoring – Best practice Part (I)
- Evaluation of ice detection systems for wind turbines (Part I)
- Increased fatigue service life and inspection intervals of welded offshore foundations

➤ Ongoing, e.g.

- Evaluation of ice detection systems for wind turbines (Part II)
- Condition Monitoring – Best practice (Part II)

➤ Planned

- Smart Operation of Wind Turbines under Icing Conditions

Benefit from an international collaboration to improve access to public funds and from cost savings, build-up and sharing of know-how.



Wind Power Performance Data EXchange - WiPPeX

Objectives

- Our member companies have expressed their common interest to share the operational data of specific wind turbine platforms within different databases.
- The aim of our member companies is to have directly access to the database and to evaluate the operational data by their own.
- The infrastructure will be provided by VGB and the storage devices will be installed in Germany to ensure the highest possible level of data security.
- The framework conditions are as follows:
 - Only companies who provide operational wind power plant data will be allowed to use the database.
 - Data anonymity and compliance to confidentiality will be ensured by VGB.
- The VGB member companies can download the raw data of the individually booked database platforms in order to create their own benchmark.
- In addition, VGB can set up a general KPI system.



Source: Verbund

Visit our VGB PowerTech | Wind website

The following information is available at our website.

https://www.vgb.org/en/_wind/



➤ VGB Wind Energy in Detail

- **VGB Wind Energy | Committee Structure**
- **VGB Wind Energy | Infosheet** (list of our offers and your benefits)
- **VGB Wind Energy | General Presentation** (strategies, main topics, current activities)
- **VGB Wind Energy | Media Catalogue** (list of our VGB-Standards and wind energy articles)

➤ VGB Publications, e.g.:

- **VGB-Standard:** “RDS-PP® Application Guideline for Wind Power Plants” (in EN and DE)
- **VGB/BAW-Standard:** “Corrosion protection of offshore wind farm structures” (in EN and DE, free of charge)
- **VGB-Standard:** “Wind Power - Definitions and Indicators” (in EN, DE and FR, free of charge)

Looking forward to answering any additional questions you might have.

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