

### Join the Global Wind Summit



<ul> <li>End-of-life issues</li> <li>Policy &amp; regulatory issues</li> </ul>
Technology options
Life extension, repowering, decommissioning & recycling: real life experiences
<ul> <li>Environmental impact of repowering/refurbishing projects</li> </ul>
<ul> <li>Potential for repowering/refurbishing project financing</li> </ul>
Environmental impacts, social acceptance & spatial planning 🚱 😂 鴌
Impact of wind energy on global climate
Local impacts (wildlife)
Survey techniques
Radar
Best practices in corporate social responsibility
Environmental impact of repowering/refurbishing projects
<ul> <li>Co-existence with other industries</li> </ul>
Spatial planning
<ul> <li>Social acceptance: ownership models, community benefits – real life examples of successful</li> </ul>
partnership between utilities and cooperatives or other forms of organisations
<ul> <li>Waste management</li> </ul>
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Financing wind energy 🚱 😂
Financing wind in emerging markets
Financing wind in a merchant environment
Institutional investors
Auction design
Purchasing Power Agreements - PPAs
Alternative methods of financing including cooperative/community investment
The potential for a bond market in funding wind
Lending conditions and credit markets
Health & safety 😵 😂 🍋
Safety culture and/or leadership
Incidents and lessons learned
Standardisation
Best practices in crisis management
Training
Installation and logistics 🚱 😂 🎓
The development of wind energy hubs, ports and hinterlands
<ul> <li>Installation technologies and examples from other industries</li> </ul>
Real-world experiences
Future logistics, transport and access

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# Integrating wind into the energy system

#### Grid Integration

- Big data applications for grid integration
- Data exchanges with TSO & DSO, and governance arrangements
- System integration studies
- load aggregation technology / approaches
- virtual power plants
- blockchain technology

#### Electrical aspects and the grid

#### Grid support services as additional revenue streams

- Main barriers and best practices regarding the participation of wind farms in balancing and congestion management markets, and other ancillary services
- Innovative storage and grid integration practices
- Operating wind farms in hybrid mode (with storage, with PV, etc.)

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#### Market design

- Priority dispatch/access and rules for curtailment in times of system stress
- Enhancing system flexibility (e.g. design of intraday market, limiting must-run generation, local vs. single flexibility market)
- Long term investment signals: design of support schemes and market integration (e.g. energy vs. capacity based), price formation (e.g. bidding zone configuration) and potential for hedging instruments

### Operations and Maintenance 🚱 😂 🎓

- Reliability, condition monitoring
- Operation & maintenance
- Big data applications to O&M (specific examples and case studies)

## Supply chain and procurement 🕓 😂 🎓

- Procurement issues
- Supply chain models
- Smaller components
- Big data applications to supply chain management
- Sustainability of the supply chain

#### Using wind to decarbonise heating, transport and other sectors

Electrifying transport and heating

- using electrification of heating and transport to facilitate grid integration of variable renewables
- using heat pump systems to the electrify heating and contribute to demand-side flexibility
- using charging infrastructure for electric cars to contribute to demand-side flexibility
- grid infrastructure requirement
- challenges to grid operators

#### Using power to generate gas

- Using clean electricity to produce hydrogen and methane
- Infrastructure challenges
- Grid integration challenges

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