

Start time	Mo Jan 31	Tu Feb 1	We Feb 2		
08:00	Welcome to Winterwind 2022!		Exhibition and registration		
08:30					
09:00	Seminar 1 09:00-10:30	<table border="1"> <tr> <td> Ice detection (1) Chairs: Accelerated Integration of Joint Ice Load and Damage Detection, Bastian Ritter, Wöfel Wind Systems, DE (14) Autonomous calibration and optimization of blade based ice detection systems, Daniel Brenner, Westmüller Monitoring Systems GmbH, GER (27) Load Monitoring: The way to operate WTS under ice Conditions?, Nils Lesmann, Deutschland (28) </td> <td> Production losses (2) Chairs: Validation of icing loss forecasts with SCADA data, Mona Kurppa, Kjeller Vindteknikk, FI (4) Improvement of ILM calculation by pre-processing of the acquired data, Wakana Igarashi, Kanagawa Institute of Technology, JP (13) </td> </tr> </table>	Ice detection (1) Chairs: Accelerated Integration of Joint Ice Load and Damage Detection, Bastian Ritter, Wöfel Wind Systems, DE (14) Autonomous calibration and optimization of blade based ice detection systems, Daniel Brenner, Westmüller Monitoring Systems GmbH, GER (27) Load Monitoring: The way to operate WTS under ice Conditions?, Nils Lesmann, Deutschland (28)	Production losses (2) Chairs: Validation of icing loss forecasts with SCADA data, Mona Kurppa, Kjeller Vindteknikk, FI (4) Improvement of ILM calculation by pre-processing of the acquired data, Wakana Igarashi, Kanagawa Institute of Technology, JP (13)	Keynotes (8) 08:30-09:30 Moderators: Enhancing icing datasets: Lessons learned from the U.S. Ice storm, Rebecka Klintström, Cir Renewables, CA (5) Third-party solutions for ice mitigation, Charles Godreau, Nergica, CA (34) Business Intelligence Analyst, Simon Grenholm, W3 Energy, SE (24)
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09:30	Busse depart from The Wood Hotel	Break	Break 09:30-10:00		
10:00	Bus pick up at the airport				
10:30	Travel to Markbygden	Opening session (3) 10:30-12:00 Moderators: Swedish Windpower Association, Jeanette Lindeblad, Swedish Windpower Association, SE (40) Skeikraft's plans, Kjell Kraft, Skellefteå kraft (42)	Validation and offshore (9) Chairs: Addressing the challenges of accurately characterising the impact of cold climate atmospheric conditions for even larger offshore turbines through a review of operational data, Marie-Anne Cowan, Wood Thisted, UK (30) Storage of electricity in molecules, Finn Daugsjord Madsen, Siemens Gamesa (37) Validation study of modelled icing using met mast data and SCADA data, Marie Cecile Pedersen, EMD International A/S, DK (15)		
10:45			Ice throw (10) Chairs: Comparison and validation of ice throw models, Markus Drapak, University of Natural Resources and Life Sciences, Vienna (BOKU), AT (9) Perceptions of impact-based warning information for ice-throw risk: A Norwegian survey, Jølle Jøring, Norwegian Meteorological Institute, NO (7) Edition 2 of the IEA Wind TCP Task 19 International Recommendations for Ice Fall and Ice Throw Risk Assessment – What's new?, Claas Rittinghaus, Energiewerkstatt Verein, AT (21)		
11:00	Seminar 2 11:00-12_30	InnoEnergy's plans, Inno Energy, InnoEnergy, EU (41) Northvolt's plans, North Volt, Northvolt, SE (39)	Break 11:00-11:30 Poster session Moderator: A note on ice detection of wind turbine blades by a rotating-cylinder-type ice sensor, Reina Muto, Kanagawa Institute of Technology, JP (12) ArcticDEM – Next generation elevation model for wind farms in cold climate?, Morten Lybech Thøgersen, EMD International A/S, DK (17) Cold climate validation testing using a large climate chamber, cold-start-up test bench and large size ice spray array, Bram Cloet, Sirris, BE (18)		
11:30					
12:00	Lunch	Lunch 12:00 - 13:30	Ice protection systems and repair (11) Chairs: Preventing wind turbines from catching colds, Patrice Roberge, Canada (2) Blade Solutions's plans, Greger Nilsson, Blade Solutions, SE (43) Linnovation concept for wind turbines in cold climate – experiences from field operation fall 2021 – winter 2022, Lars Tarberg, Linnovation AB, Sweden (19)		
12:30	Visit to markbygden	Lunch	Validation, production losses (12) Chairs: Validation of modelled instrumental icing with mast measurements, Ville Lehtomäki, Kjeller Vindteknikk, FI (3) Bridging the Gap – Validation of Pre-construction Wind Farm Modelling Against Operational Data, Enrico Sindici, Natural Power, UK (10) A smart algorithm for wind turbine controlling under icing conditions, Franziska Gerber, Meteotest AG (36)		
13:00		Poster session Moderator: A novel model for glaze ice accretion, Robert Szasz, Lund University, SE (26) Maritime Airfoil Performance Monitor integration to a wind turbine, Dominic Boldac, Nergica, CA (29)	Lunch 12:30-13:30 Poster session Moderator: Aerodynamics of iced blades: a 2D investigation, Hamid Satrik, DTU, DK (32) Lifetime extension of main bearings, scientific calculation and practical implementation, Stefan Bill, Rewitec GmbH, DE (35)		
13:30	Seminar 3 13:30-16:00	<table border="1"> <tr> <td> Ice detection (4) Chairs: Enhancing power production without safety concessions in cold climates – early ice prediction by sensor fusion of surface and high-precision wind data, Theresa Loss, eolixg sensor technology, AT (22) A thermal based ice detection sensor from academic research to a commercial product, André Bégin-Drolet, Université Laval and Instrumentation Ictek, CA (20) Using drones for an ice piece collection campaign, Anne Mette Nodeland, Kjeller Vindteknikk in Norconsult AS, NO (6) </td> <td> Production losses (5) Chairs: Validation of Ice-Affected Plant Energy Assessment at a Large OEM, Mark Zagari, Vestas, DK (16) Nordex advanced Anti-Icing System for N163 wind turbines, Konrad Siech, Nordex Energy SE & Co. KG (1) Assessment of ENERCON blade heating performance in various conditions, Gilles Boesch, ENERCON (25) </td> </tr> </table>	Ice detection (4) Chairs: Enhancing power production without safety concessions in cold climates – early ice prediction by sensor fusion of surface and high-precision wind data, Theresa Loss, eolixg sensor technology, AT (22) A thermal based ice detection sensor from academic research to a commercial product, André Bégin-Drolet, Université Laval and Instrumentation Ictek, CA (20) Using drones for an ice piece collection campaign, Anne Mette Nodeland, Kjeller Vindteknikk in Norconsult AS, NO (6)	Production losses (5) Chairs: Validation of Ice-Affected Plant Energy Assessment at a Large OEM, Mark Zagari, Vestas, DK (16) Nordex advanced Anti-Icing System for N163 wind turbines, Konrad Siech, Nordex Energy SE & Co. KG (1) Assessment of ENERCON blade heating performance in various conditions, Gilles Boesch, ENERCON (25)	Closing session (13) 13:30-15:00 Moderators: Challenges with Powering the Electrification of the Industry, Daniel Gustafsson, Vattenfall, SE (38) The IEA Wind TCP Task 19: 10 years of cold climate wind research., Timo Karlsson, VTT Technical Research Centre of Finland Ltd, FI (23) Ice Detection Guidelines for Wind Energy Applications by IEA Wind TCP Task19, Charles Godreau, Nergica, CA (33)
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13:50					
14:10					
14:30		Break, Poster session Moderator: N1's plans, N1_N1_, N1_Poster, EU (44) N2's plans, N2_N2_, N2_imposter, EU (45)	Summary THE END		
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15:20					
15:40					
16:00	Visit to Northvolt exhibition in Skellefteå	Exhibition break			
18:00	Back at the hotel				
19:00		Dinner			