



5TH
**INTERNATIONAL
CONFERENCE ON SMALL
AND MEDIUM WIND
ENERGY**

27 - 29 APRIL 2021

ONLINE

NORDIC FOLKECENTER FOR RENEWABLE ENERGY
Kammersgaardsvej 16, Sdr. Ydby, 7760 Hurup Thy (DK)

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Introduction

Nordic Folkecenter for Renewable Energy, the Danish Test and Resource Centre for Small Wind Turbines, the Danish Association for Small and Medium Wind Turbines, in partnership with the World Wind Energy Association, are pleased to invite to the 5th International Conference on Small- and Medium Wind Energy, which will be held **online** from the 27th to the 29th of April 2021.

The event is the continuation of a series of four successful conferences which focused on small & medium wind and which reached hundreds of people around the world. The conferences were held in the period 2019-2020 and the proceedings can be found on www.folkecenterevents.net.

Given the good response obtained, it was decided to continue this conference series to make sure the small & medium wind community remains updated on the innovative solutions released and on the new market opportunities.

The 5th conference will focus on:

- Market Challenges & New Opportunities;
- Delivering electricity off-grid or to small local grids;
- Challenges and potentials of wind energy in the Arctic region;
- Incentives and other regulatory tools for increasing the renewable energy penetration in the society;
- Placement & Design of Small Wind Turbines;
- Education;
- New Technical Solutions;





The Conference

Program

Please, note that all hours are in CEST (Central European Summer Time)

Tuesday 27 April

09:00

Welcome

Jane Kruse, Director, Nordic Folkecenter for Renewable Energy, Denmark

09:15

Welcome

Morten Victor Petersen, Danish Association for Small and Medium Wind Turbines, Denmark

Session 1: Market Challenges & New Opportunities

09:25

Activities of the Energy Cluster Denmark

Hans A. Pedersen, Project Director, Energy Cluster Denmark

09:45

Update on WWEA Activities on Small Wind

Jean Daniel Pitteloud, Coordinator on the Small Wind Sector, WWEA, Germany

10:05

Danish requirements for grid connection and the application process for the positive list

Peter Egestad, Consulent, Dansk Energi, Denmark

10:30

Break

10:45

Hybrid Energy Towers or HET – power supply from renewable energies by means of small power stations which function off-grid and on-site 24/365

Joachim Sroka, Stahl- und Anlagenbau UG, Germany (translating: Judith Cierzynski)

11:20

Commercialization Challenges of a Small Ducted Wind Turbine

Ken Visser, Ducted Wind Turbines, Inc., US

11:45

A Grid Tie Option for Small Wind and off-grid AC Coupling

Quentin Gargan, M.D. Voltsys, Ireland

12:10

Lunch break

13:15

Small scale Plant Factories with Artificial Lighting and wind energy microgeneration: A multiple revenue stream approach

George Xydis, Associate Professor, Department of Business Development and Technology- Aarhus University



The Conference

13:40

Wind Energy - A power source for water production through desalination technology

Eftihia Tzen, Wind Energy Department, Center for Renewable Energy Sources & Savings, Greece

14:05

Discussion: Audience's experience on market challenges

14:30

Networking

Wednesday 28 April

Session 2: Delivering electricity off-grid or to small local grids

10:00

Flower Turbines: on- and off-grid charging solutions for small e-mobility

Roy Osinga, Director EU, Flower Wind Turbines

10:25

Lightweight & Portable Wind Power

Andreas Okholm, founder & CEO of KiteX, Denmark

10:50

Evaluation of small wind turbines for rural electrification: Case studies from extreme climatic conditions in Venezuela

Alejandro López González, Universitat Politècnica de Catalunya, Spain

11:15

Break

11:30

Measuring techniques when testing small wind turbines

Anker Mardal, Data Responsible, Nordic Folkecenter for Renewable Energy & Danish Test and Resource Center for Small Wind Turbines, Denmark

11:55

Holistic Design of Small-scale Stand-alone Wind Energy Conversion Systems Using Locally Manufactured Small Wind Turbines

Kostas Latoufis, Researcher, National Technical University of Athens, Greece

Session 3: Challenges and potentials of wind energy in the Arctic region

12:20

Road Map for Local Implementation of REN in Isolated Power Systems

Esben Larsen, Associate Professor, Department of Engineering Technology and Didactics Supply and Infrastructure, Danish Technical University, Denmark

13:45

Energy resources and electricity generation in Arctic areas

Magnus de Witt, Ph.D. Candidate, Reykjavik University, Iceland

13:10

Lunch break



The Conference

13:50

Princess Elisabeth Antarctica - Zero emission research station

Henri Robert / Nighat Amin / Joseph Cheek, International Polar Foundation, Belgium

14:15

Wind opposition in the Arctic

Tonje Margrete Winsnes Johansen, Adviser Arctic- and Environmental Unit, Saami Council, Sápmi

14:40

The Faroe Islands on their way to 100% renewable energy

Bjarti Thomsen, Renewable energy advisor at Environment Agency, Faroe Islands

15:05

Discussion/Panel: Challenges & opportunities in the Arctic (TBC)

15:25

Break

Session 4: Incentives and other regulatory tools for increasing the renewable energy penetration in the society

15:40

Extreme Subsidies to Small Wind Farms in Northern Ireland: A Bureaucratic Oversight?

John Constable, Director, Renewable Energy Foundation, UK

16:05

Updates on the New Green Deal

Dörte Fouquet, Director, European Renewable Energy Federation, Belgium

Session 5: Placement & Design of Small Wind Turbines

16:30

Development of blade element modelling for small wind turbines

David Wood, Professor, University of Calgary, Canada

16:55

Sustainable Materials for Small Blades

Igor dos Santos Gomes, Doctorate Student, Federal University of Pará, Brazil

17:20

Technical assessment of small-scale wind power for residential use in Mexico: A Bayesian intelligence

Monica Borunda, CONACYT-INEEL, Mexico



The Conference

Thursday 29 April

Session 6: Education

Small Wind Turbine Engineering using IEC

11:25

Svend W. Enevoldsen, Ecology Management ApS, Denmark

Micro milli and mega grids and the role of small wind turbines in a grid

11:50

Frits Ogg, author, the Netherlands

Break

12:15

Session 7: New Technical Solutions

Recovering wind energy curtailments in island grids through water pump-driven demand response

12:30

Dimitris Zafirakis, University of West Attica, Greece

Energy Management System for a Smart Prosumer

12:55

Shraddha Shriram Maslekar & Levente Tamás Tóth, Aalborg University, Denmark

Designing next-generation small wind turbines with plant-based materials: Engineered timber towers and flax/hemp biocomposites blades

13:20

Darshil Shah, Assistant Professor, University of Cambridge, UK

13:45

Lunch break

14:45

Breakout room discussion (TBC)

15:35

Services offered by the Danish Test & Resource Center for Small Wind Turbines

Tonny Brink, CTO, Nordic Folkecenter for Renewable Energy & Test Site Manager, Danish Test and Resources Center for Small Wind Turbines, Denmark

16:00

Quantifying the Loads on Small Wind Turbine Blades

David Wood, Professor, University of Calgary, Canada

16:25

Wrap up of the conference

16:35

Networking



About Folkecenter

Nordic Folkecenter for Renewable Energy is a location known worldwide among energy experts. At the centre visitors are able to experience different renewable energy technologies and to have a complete overview on how could a transition towards a 100% renewable energy society occur.

The conference hall is located in SkibstedFjord, which is an example of innovative underground architecture. The building, with its 750 m² and its 140 places, is the ideal location for conferences on renewable energy topics, and enjoys a very pleasant indoor climate in every season.

To overcome the restrictions in place due to the Corona Virus crisis, Folkecenter has established a webinar room from where conferences and events can be broadcasted.

More information about Folkecenter can be found on:

<http://www.folkecenter.net/>





Practical Details

Fee and Registration

Participation to the event is **free of charge**, but registration is required. Please, note that due to the online form of the conference, **only people registered will be admitted**.

Instructions on how to join the conference will be sent out to participants.

Important Dates:

- 26 April 2021, 13:00 CEST: Deadline for registration (can be done [here](#)); participants registering after that time may still join, but it will probably be on the 28th
- 26 April 2021, 14:00 CEST: Instructions for joining are sent out to registered participants;
- 27 April 2021, 08:00 CEST: Participation link is sent out to registered participants. The conference room will be open at 08:45 CEST.
- 27 - 29 April 2021: Conference

Please, be aware that **the conference will be recorded**. By joining, you allow that pictures and videos (or portions of videos) can be shared on our channels. Recording is used for documentation, marketing and security reasons;

[Register now!](#)

For any question regarding the conference, please contact
Mr. Daniele Pagani, dp@folkecenter.dk, +45 9795 6600





Sponsorship

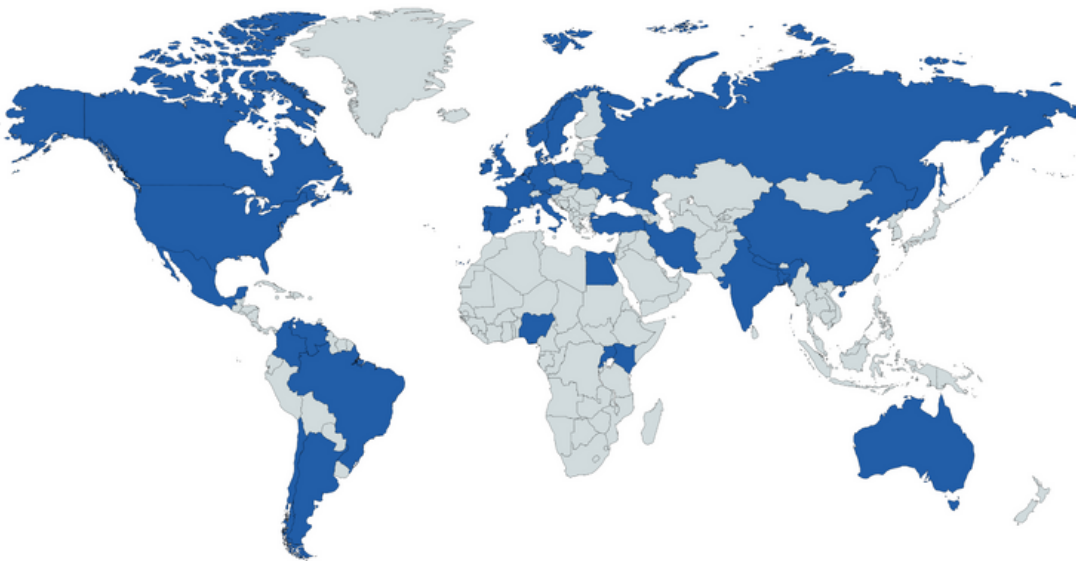
We strongly believe that knowledge should be as accessible as possible, which is why we want to keep the participation to this event free of charge. At the same time, we would like to keep the quality of the conference high, which is why your support is crucial.

By supporting us you will have the chance to reach a very wide audience all over the world, which could potentially result in new customers and new market opportunities.

During 2020, with the 3rd and 4th editions of the conference, we managed to reach about 300 people from 36 different countries...a very good base for you to start looking at new markets!

We have developed some sponsorship packages, which we hope will match your needs. You can find them on the following page.

Audience in 2020



300
participants

35+ countries
represented

95000 people
reached

For you: High Visibility New Market Opportunities



Sponsorship

Sponsorship Packages

	Diamond	Gold	Silver	Bronze	Basic+	Basic
Logo with link on the conference website	✓	✓	✓	✓	✓	✓
Logo with link on the conference program	✓	✓	✓	✓	✓	✓
Logo at the beginning of the recorded material (published on Folkecenter's YouTube channel)	✓	✓	✓	✓	✓	✓
Acknowledgment on social media	✓	✓	✓	✓	✗	✗
Acknowledgment during the conference	✓	✓	✓	✓	✗	✗
Brief company description on the website	✓	✓	✓	✓	✓	✗
Dedicated section with company description in the program	✓	✓	✓	✓	✗	✗
Video (30 sec) before the event and during the breaks*				✓	✗	✗
Video (1 min) before the event and during the breaks*			✓	✗	✗	✗
Video (2 min) before the event and during the breaks*		✓	✗	✗	✗	✗
Video (3-5 min) before the event and during the breaks*	✓	✗	✗	✗	✗	✗
Placement of physical advertising material (flyers, brochures) in Folkecenter**	✓	✓	✓	✗	✗	✗
Banner/roll up/logo visualization in the physical conference room	✓	✓	✗	✗	✗	✗
Video (15-30 sec) inserted in the presentation recording (will appear on every video)	✓	✗	✗	✗	✗	✗
Price (€)	5 000	3 000	2 000	1 000	500	200
Price (DKK)	37 250	22 500	15 000	7 500	3 750	1 500

If you are interested in sponsoring the event, please contact

Mr. Daniele Pagani, dp@folkecenter.dk

You can also support us as **private person** and, if you wish, your name will appear among the supporters. Please, do not hesitate to contact us if you are interested in this option

Nordic Folkecenter for Renewable Energy

Working for a world running on 100% renewables since 1983



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