Renewable Energy Grid Integration Week

5th E-Mobility Power System Integration Symposium 11th Solar & Storage Integration Workshop 20th Wind Integration Workshop

BACKGROUND INFORMATION

Germany 27 SEP - 01 OCT 2021

CONTACT

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Energynautics GmbH, Germany www.energynautics.com

www.mobilityintegrationsymposium.org www.solarintegrationworkshop.org www.windintegrationworkshop.org

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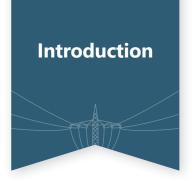
Renewable Energy Grid Integration Week

The Renewable Energy Grid Integration Week comprises three high-quality conferences on grid integration of renewable energies in one week and attracts participants from all over the world. The conference series takes place in a different location each year highlighting that region's particular grid integration issues in keynotes and presentations throughout the week.

The basic idea of this event series is to stimulate the interdisciplinary discussion between industry and academic participants on key issues in the area of large-scale integration of renewable energies into power systems. Thus, the conferences are designed to provide a platform for power system operators, transmission and distribution grid operators, wind turbine, solar inverter and charging station manufacturers, universities and research institutes, and consulting companies to exchange technical and economic developments. The presentations on research work, practical experience and ongoing as well as concluded projects are based on a Call for Papers and invited papers.

With several accompanying events such as the networking poster sessions for each of the events, the combined solar and wind networking dinner, study trips and tutorials, the renewable energy conference series provides not only a great learning experience but also the perfect opportunity for energy experts to network with their peers from all around the world.











How it all began

The Renewable Energy Grid Integration Week looks back to a year-long history. Back in 1999, two Ph.D. students at KTH - Royal Institute of Technology, Stockholm, Sweden, one of them Energynautics CEO Dr. Thomas Ackermann, spent hours discussing the integration of wind power into power systems and possible applications of HVDC technology for offshore wind farms.

These academic discussions led to the "International Workshop on Feasibility of HVDC Transmission Networks for Offshore Wind Farms" in 2000 and already included many experts from the wind industry.

This Workshop then developed into the annual "International Workshop on Large-Scale Integration of Wind Power into Power Systems as well as on Transmission Networks for Offshore Wind Power Plants" and is since 2011 conducted in conjunction with the Solar & Storage Integration Workshop. In 2017, the first E-Mobility Power System Integration Symposium joined these renowned conferences and together they form the Renewable Energy Grid Integration Week.



















Renewable Energy Grid Integration Week 2021

The Renewable Energy Grid Integration Week will start with the E-Mobility Power System Integration Symposium, followed by the Solar & Storage Integration Workshop and the Wind Integration Workshop.

symposium, followed by the solar & storage integration workshop and the wind integrati



Preliminary Timetable:



Monday

- E-Mobility Integration Symposium
- E-Mobility Poster Reception & Networking



Tuesday

- Solar & Storage Integration Workshop | Day 1
- Solar & Storage Poster Reception & Networking



Wednesday

- Solar & Storage Integration Workshop | Day 2
- Wind Integration Workshop | Day 1
- Solar & Wind Dinner



Thursday

- Wind Integration Workshop | Day 2
- Wind Poster Reception & Networking

Friday

• Wind Integration Workshop | Day 3

Date & Location:

27 September - 01 October 2021

The events of the RE Grid Integration Week will be held virtually.

If the situation in September allows for safe on-site events (pending the course of the pandemic), we will also offer the option to participate on location in Germany.

Expected participants:

>120 E-Mobility / >150 Solar / >250 Wind

For further details visit:

www.mobilityintegrationsymposium.org www.solarintegrationworkshop.org www.windintegrationworkshop.org

Development of the Wind Integration Workshop

20 years after its first edition, the Wind Integration Workshop has developed into one of the premier conferences in its field, providing an excellent platform for discussing the subject of grid integration of wind power into power systems.

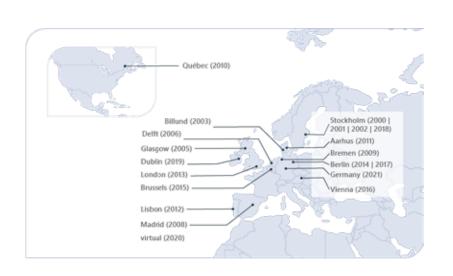
It has been organized by Energynautics and its CEO, Thomas Ackermann, since 2006.

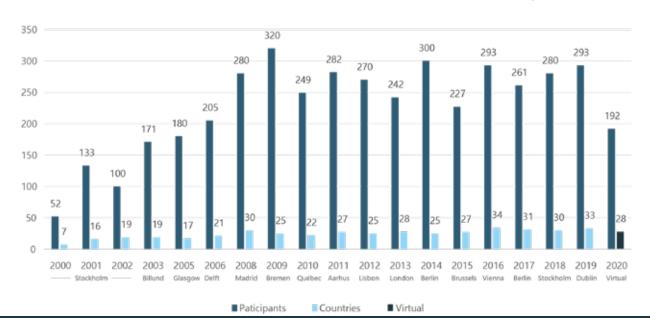
Having started with only 52 participants from 7 countries, the Wind Integration Workshops attracts nowadays between 230 and 300 participants each year from around 25 to 30 countries.





Participants and countries Wind Integration Workshop

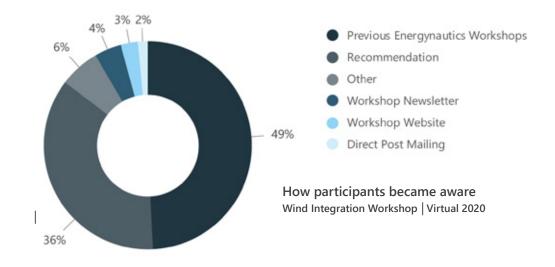




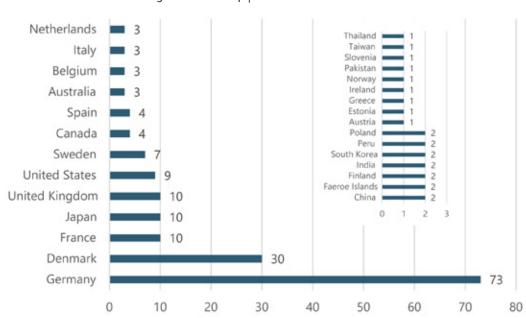
Virtual Wind Integration Workshop 2020

The following charts about our previous workshop show the origin of the participants regarding their country and the type of organization/company they work for.

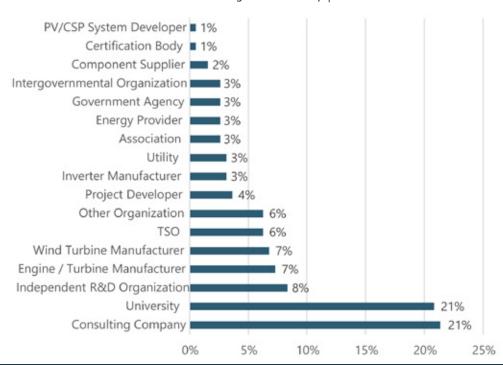
Moreover we present the type of awareness to specify how they have found the way to our event. We are happy that half of all wind participants have attended the workshop more than once and that many of our new attendees came by recommendation.



Participants by country Wind Integration Workshop | Virtual 2020



Participants based on organization Wind Integration Workshop | Virtual 2020



Topics and Advisory Committee

Wind

Main Topics of the Workshop

- Project Experience with Grid Integration of Wind Power Plants
- Grid Forming Aspects and Experience
- Power System Studies
- Distribution Grid Issues
- Transmission Grid/Power System Issues
- Power Quality Issues
- Grid Code Issues and Future Aspects
- Wind Power Modelling Issues
- Power System Balancing Issues

- Ancillary Services
- Forecasting
- Hybrid Power Systems
- Smart Grid/IT Innovations
- Energy Market and Regulatory Issues
- Decarbonization of Energy Sectors
- Al and Machine Learning for Grid Integration
- Sector Coupling Based on Wind Power incl. Hydrogen

International Advisory Committee for the Wind Integration Workshop

Besides giving general advice for content and topics of the workshop, and working as reviewers of submitted abstracts during the Call for Paper process, they are acting as multipliers for the workshop idea and date. All members receive the media package to support the workshop communication.

Thomas Ackermann | Energynautics, Germany Sigrid Bolik | ITPEnergised, United Kingdom

Peter W. Christensen | Atkins SNC-Lavalin, Denmark

Jaap de Boer | Energy Watch, Netherlands

Julian Eggleston | Australian Energy Market Commission, Australia

Ana Estanqueiro | LNEG, Portugal

Alain Forcione | IREQ Hydro Québec, Canada

Jens Fortmann | HTW Berlin – University of Applied Sciences, Germany

Daniel Fraile | WindEurope, Belgium

Michael Nørtoft Frydensbjerg | Vattenfall Vindkraft, Denmark

Paul Gardner | Paul Gardner Energy Consulting Ltd., United Kingdom

Gregor Giebel | Risø DTU, Denmark

Jutta Hanson | Technical University Darmstadt, Germany

Bri-Mathias Hodge | NREL, USA

Hannele Holttinen | recognis, Finland

Reza Iravani | University of Toronto, Canada

Tomas A. Kåberger | Chalmers University of Technology, Sweden

Jako Kilter | Tallinn University of Technology – TalTech, Estonia

Lars Landberg | DNV GL, USA

Debra Lew | ESIG, USA

Frank Martin | Siemens Gamesa, Denmark

Julia Matevosyan | ERCOT, USA

Nickie Menemenlis | Hydro Québec-IREQ, Canada

Rossano Musca | University of Palermo, Italy // Neplan, Switzerland

Lars Nordström | KTH – Royal Institute of Technolohgy, Sweden

Antje Orths | Energinet.dk, Denmark

Hassan Qazi | EirGrid, Ireland

Eckard Quitmann | Enercon, Germany

Nigel Schofield | University of Huddersfield, United Kingdom

Inga Skrypalle | Vestas Wind Systems, Denmark

J. Charles Smith | ESIG, USA

Lennart Söder | KTH – Royal Institute of Technology, Sweden

Poul Sørensen | DTU Wind Energy, Denmark

Derek Stenclik | Telos Energy, USA

Jian Sun | Rensselaer Polytechnic Institute, USA

Pieter Tielens | Engie Impact, Belgium

Adrian Timbus | ABB, Switzerland

Helge Urdal | Urdal Power Solutions, United Kingdom

Marta Val Escudero | EirGrid, Ireland

Patrick van de Rijt | TenneT TSO, Germany

Yoh Yasuda | Kyoto University, Japan

Solar & Storage Integration Workshop

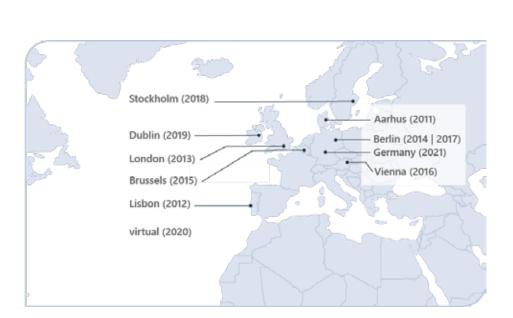
The increasing interest in solar integration issues motivated us to organize the first Solar & Storage Integration Workshop in Aarhus in 2011. Since the second edition, the number of participants on onsite events has always reached more than 100, and even 175 in Berlin (2014), 172 in Vienna (2016) and 171 in Stockholm (2018).

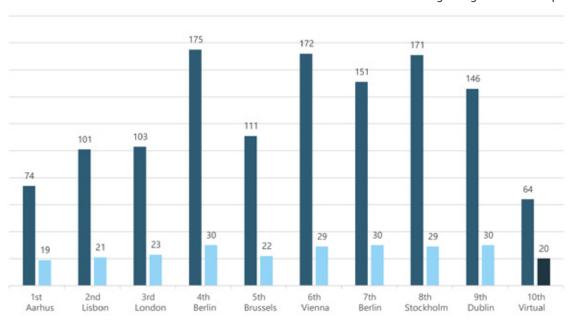
The 11th Solar & Storage Integration Workshop will be held in Germany with a duration of 1.5 days, following the 5th E-Mobility Power System Integration Symposium and preceding the 20th Wind Integration Workshop.





Participants and countries Solar & Storage Integration Workshop





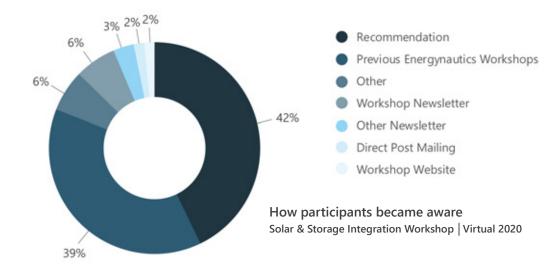
Countries

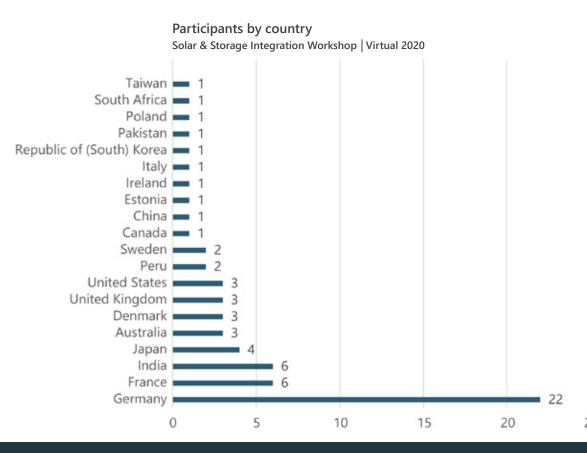
■ Paticipants

■ Virtual

Virtual Solar & Storage Integration Workshop 2020

Have a look at the following charts providing facts and figures on the participants of the previous Solar & Storage Integration Workshop.







https://solarintegrationworkshop.org/virtual2020/program/

Topics and Advisory Committee

Solar

Main Topics of the Workshop

- Project Experience with PV and Battery Grid Integration
- Grid Forming Aspects and Experience
- O Power System Studies
- Distribution Grid Issues
- ◆ Transmission Grid/Power System Issues
- Power Quality Issues
- Grid Code Issues and Future Aspects
- Solar Power and Battery Modelling Issues
- Power System Balancing Issues

- Ancillary Services with PV and Batteries
- Forecasting
- Hybrid Power Systems
- Smart Grid/IT Innovations
- Energy Market and Regulatory Issues
- Decarbonization of Energy Sectors
- Al and Machine Learning for Grid Integration
- Sector Coupling Based on PV incl. Hydrogen

International Advisory Committee for the Solar & Storage Integration Workshop

Besides giving general advice for content and topics of the workshop, and working as reviewers of submitted abstracts during the Call for Paper process, they are acting as multipliers for the workshop idea and date. All members receive the media package to support the workshop communication.

Thomas Ackermann | Energynautics, Germany

Sigrid Bolik | ITPEnergised, United Kingdom

Roland Bründlinger | AIT Austrian Institute of Technology, Austria

Julian Eggleston | Australian Energy Market Commission, Australia

Bernd Engel | SMA Solar Technology, Germany

Bernhard Ernst | Bernhard Ernst Energy Consulting, Germany

Andreas Falk | SMA Solar Technology, Germany

Bri-Mathias Hodge | NREL, USA

Tomas A. Kåberger | Chalmers University of Technology, Sweden

Lars Landberg | DNV GL, Denmark

Debra Lew | Debra Lew LLC, USA

Nickie Menemenlis | Hydro Québec-IREQ, Canada

Lise Nielson | Linie P, Denmark

Dezso Sera | Queensland University of Technology, Australia

J. Charles Smith | ESIG, USA

Lennart Söder | KTH – Royal Institute of Technology, Sweden

Emanuele Taibi | IRENA, Germany

Adrian Timbus | ABB, Switzerland

Julio Usaola | Charles III University of Madrid, Spain

Dirk Van Hertem | KU Leuven, BelgiumAdrian Timbus | ABB, Switzerland

Julio Usaola | Charles III University of Madrid, Spain

Dirk Van Hertem | KU Leuven, Belgium

E-Mobility Power System Integration Symposium

The purpose of the **E-Mobility Power System Integration Symposium** is to discuss the challenges that arise with increased power demand due to electric vehicle charging, and how they can be met by coordinating with renewable power production in the electrical system (hence the combination with the Solar & Wind Integration Workshop). The selection of topics also highlights the need for integrating the required electric vehicle charging infrastructure with the expansion of the distribution and transmission system.

The **Symposium** offers a prime opportunity to discuss the significant future impact of E-Mobility on power system design and operation. It aims to bring together experts on electric vehicles, charging infrastructure, power system operators, and stakeholders of the renewable energy industry as well as power system regulators and universities.





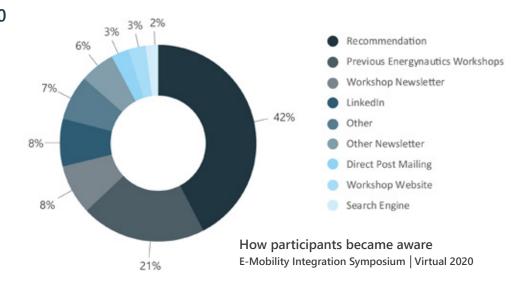


Participants and countries E-Mobility Integration Symposium | Virtual 2020

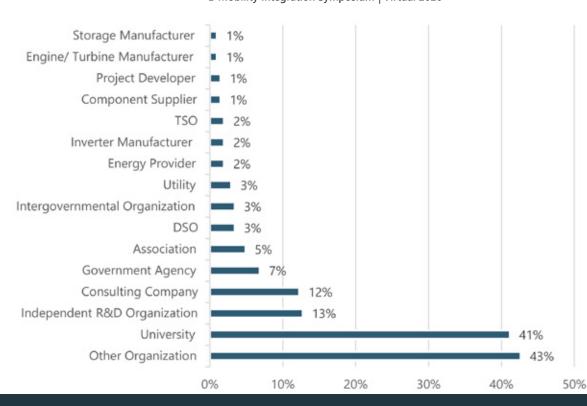


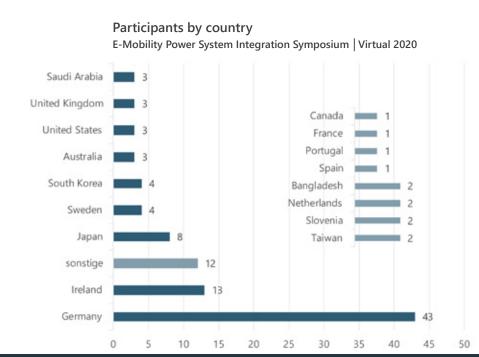
Virtual E-Mobility Power System Integration Symposium 2020

Learn about the 4th E-Mobility Power System Integration Symposium and its participants with the help of the following charts.



Participants based on organization E-Mobility Integration Symposium | Virtual 2020





https://mobilityintegrationsymposium.org/virtual2020/agenda/

Topics and Advisory Committee

E-Mobility

Main Topics of the Symposium

- Project Experience with EV Grid Integration
- Grid Forming Aspects and Experience
- Power System Aspects with high shares of EVs
- Distribution Grid Issues
- Market and Regulatory Aspects
- Charging Infrastructure Planning & Smart Charging
- High Power Charging
- Vehicle to Grid incl. Ancillary Service Participation
- Charging Methods + Standardization of Charging Modes / Communication

- Communication and Security Aspects
- Grid Integration Modelling Aspects
- Grid Code Issues and Future Aspects
- Decarbonization of Energy Sectors
- Electrification of Urban Mobility
- Mobility as a Service
- Al and Machine Learning for Grid Integration
- E-Mobility and Renewable Energy Integration

International Advisory Committee for the E-Mobility Power System Integration Symposium

Besides giving general advice for content and topics of the workshop, and working as reviewers of submitted abstracts during the Call for Paper process, they are acting as multipliers for the workshop idea and date. All members receive the media package to support the symposium communication.

Thomas Ackermann | Energynautics, Germany Jann Binder | Center for Solar Energy and Hydrogen Research (ZSW), Germany Sigrid Bolik | ITPEnergised, United Kingdom Johannes Brombach | eMIS, Germany Markus Dietmannsberger | Hamburger Hochbahn, Germany Bernd Engel | TU Braunschweig, Germany

Sonja Klingert | University of Mannheim, Germany

Tomas A. Kåberger | Chalmers University of Technology, Sweden Nickie Menemenlis | Hydro Québec – IREQ, Canada Lars Nordström | KTH – Royal Institute of Technology, Sweden Maria Perez Ortega | Gfi, Belgium Lennart Söder | KTH – Royal Institute of Technology, Sweden Emanuele Taibi | IRENA, Germany Bernhard Wille-Haussmann | Fraunhofer ISE, Germany

Involvement of TSOs



In the past, Transmission System Operators have:



held Keynote presentations



organized entire sessions



made several presentations in the course of the events



have organized study trips to project sites or their facilities



been part of the panel discussions at the end of the event

We are very open to **YOUR** preferred involvement in the conference. Just let us know in which way you would like to contribute.

Involvement of TSOs

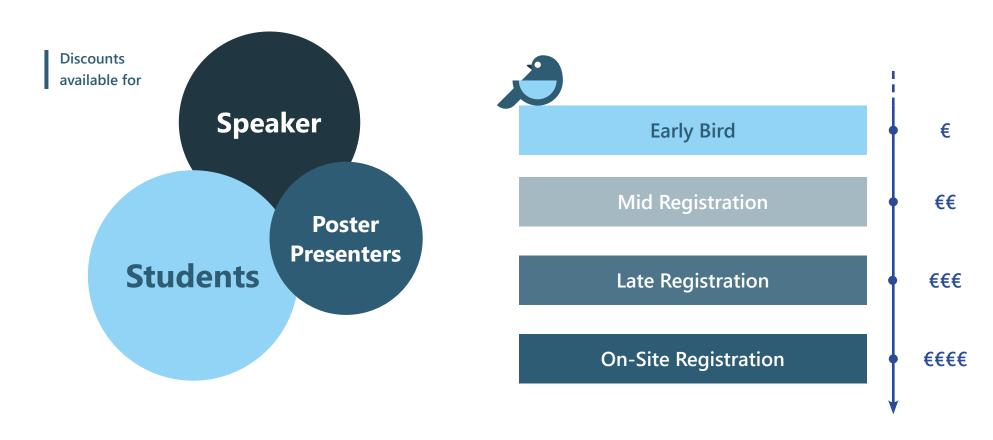
The following table provides an overview of the involvement of TSOs at past workshops:

Location, Year	Role of TSO	Number of Presentations by TSOs
Virtual 2020	-	11 i.e. Amprion, Elia, National Grid, Energinet, REE, Tennet TSO, Svenska kraftnät, ScottishPower Renewables, ERCOT, National Grid, RTE France
Dublin 2019	EirGrid/SONI: Sponsor, Presenters, Partner in Opening Session, Study Trip Organizer	22 i.e. EirGrid, SONI, National Grid, Amprion, REE, Energinet.dk, ERCOT
Stockholm 2018	-	28 i.e. Vattenfall, TenneT, Eirgrid, Ercot
Berlin 2017	Tennet: Sponsor, Presenters and Partner in Opening Session	21 i.e. REE, Energinet.dk, ERCOT, HEDNO
Vienna 2016	Austrian Power Grid: Sponsor, Presenters, Study Trip Organizer	17 i.e. Nationalgrid, Hydro Québec, TRE France
Brussels 2015	Elia Group/50Hertz: Sponsor and Study Trip Organizer	10 i.e. Amprion, ENTSO-E, Elia
Berlin 2014	50Hertz: Sponsor, Presenter in Opening Session	11 i.e. FinGrid, Vattenfall, Amprion, TenneT
London 2013	National Grid: Sponsor, Presenters, Partner in Opening Session and dedicated National-Grid session	12 i.e. UK Power Networks, Enel Italy
Lisbon 2012	REN: Supporter, Presenters and Partner in Opening Session	19 i.e. Statnett, ONS Brazil, TenneT
Aarhus 2011	Energinet.dk: Supporter, Co-organizer for Field Trip, Presenter and Partner in Opening Session, Special Energynet.dk day	21 i.e. REE, EirGrid, Terna Italy, Alstom Grid

Structure of Participation Fees

In order to win participants of every target group to form the inspiring mixture of speakers, poster presenters and regular visitors from different research sectors and institutions the participation fees are based on a mixed calculation to address the needs of every target group specifically: students, university staff, associations, N.G.O.s, public institutions, companies. Students may register for the highest discount as well as speakers and poster presenters. Regular participants are offered three different time schemes – early bird, regular registration, late registration. For last minute participants we also offer on-site registration.





Communicating the Workshops

Although a large portion of our participants from previous workshops are "repeaters" (40-50 %) or came by recommendation (25-30 %), we constantly strive for gaining new participants. Therefore, the workshop communication makes use of different communication channels:

Cooperations with Universities:

In order to maintain our goal of providing a platform not only for industry professionals but also for university members, we have cooperations with several local academic institutions. This will also give other participants the opportunity to learn more about results from ongoing research. For sponsors this is a great way to network with young professionals who have a strong academic background.

Websites:

The basis for all information regarding the symposium and the workshops are the event websites (see below): They compile information about the workshop's history, past programs, proceedings and the information about the current program, venue, and accommodation opportunities.

During the last **3 months** before the event the websites are viewed by:

	Unique visitors per month
www.mobilityintegrationsymposium.org	550 - 700
www.solarintegrationworkshop.org	600 - 850
www.windintegrationworkshop.org	900 - 1,200



Newsletters:

The main means of communication to disseminate the workshop are regular workshop newsletters. It contains the current basic information linking to the workshop website for more detailed information.

Social Media:

Different aspects of the workshops are communicated on several social media platforms (and their groups) such as:

LinkedIn https://www.linkedin.com/groups/4813626/

Twitter https://twitter.com/REGridIntegrWS

Online & Print Media:

The workshop date is listed on several renewable energy event lists and calendars on- and offline. Furthermore, advertisements get published regularly to promote the workshop.

Leaflets:

Paper leaflets/flyers are produced for distribution among interested institutions and participants.

Direct Mailing:

Previous workshop participants will receive information about the Call for Papers and later on about the program via mail.





Quality Control & Feedback

The participants of every workshop receive the opportunity to give their feedback after the event answering a number of questions regarding the quality of the workshop program, venue, location and organization.

The workshop team evaluates the answers thoroughly and initiates changes wherever applicable. Many new ideas are making its way to us this way.

Selected answers from previous participants:

The Wind Integration Workshop is important for me because...

I got an overview about the Getting an overview of the key grid integration topics under discussion between different points of view and a wind industry and TSOs. feeling what is common sense. I get to see the latest research topics, and industry views/presentations It facilitates open discussion with all Exposure to the latest thinking and key stakeholders involved in the work on cutting edge topics. Highly qualified speakers wind integration process. I learned a lot, as always! and audience Practical issues meet with research and To do once a year a step out of the box. the gap between industry and academia is smaller than in other events.



Workshop

Quality

Your Benefits as Sponsor

Being sponsor of one or several events of the Renewable Energy Grid Integration Week not only raises awareness for your company among participants but also gives you the following two main advantages:



Meet your future employees & partners



Capacity Building for your team



- Find highly qualified students & professionals among participants
 - Network with potential candidates
 - Display your job announcements in our conference material
 - Meet potential partners for new projects

- $\bullet\,$ Train your employees on specific topics about the integration of RE
 - Share & receive fresh ideas about current issues
- Find solutions for your ongoing projects in industry & academia
 - Have serious discussions with worldwide experts

Sponsoring Packages and Add-ons explained

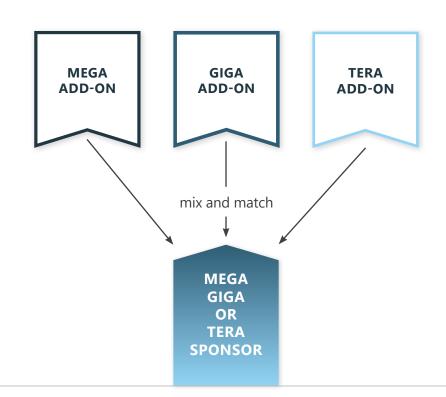
Virtual Conferences Sponsoring Packages (Basic Packages)

Book your preferred Virtual Conference Sponsoring Package (Basic Package) and become a MEGA, GIGA or TERA Sponsor for the Virtual Event of your choice.

MEGA GIGA OR TERA SPONSOR

On-site Add-ons (Optional Package Upgrades)

In case on-site events in September are possible (pending the course of the pandemic), we will offer you the option to add an on-site upgrade to your booking of the Virtual Conference Sponsorship Package. The upgrade is **optional** and you may choose either the MEGA, GIGA or TERA add-on. Add-ons will only be invoiced after the actual implementation of the on-site event. **Add-ons are only bookable as an upgrade to a Virtual Conference Sponsorship Package, not stand-alone.**



Virtual Conferences Sponsoring Packages (Basic Packages)

- Your company logo on conference website, newsletters, digital proceedings (incl. link to your website) and sponsor overview slides during the conference
- Your ad in digital proceedings
- Dedicated social media post announcing you as a conference sponsor
- 1 free participant for the virtual conference

Sponsorship Contribution	E-Mobility:	Solar & Storage:	Wind:
	€ 1,500.00	€ 1,500.00	€ 3,000.00



All Mega Sponsor Benefits

- + Your dedicated company slide before two selected sessions
- + Content box in one newsletter issue
- + 1 additional free participant (total=2) for the virtual conference

Sponsorship Contribution	E-Mobility:	Solar & Storage:	Wind:
	€ 3,250.00	€ 3,250.00	€ 5,000.00



All Giga Sponsor Benefits

- + Your company video before a selected session/selected breaks (max 30 s/5 min)
- + Host a discussion during the evening networking event
- + Dedicated social media post announcing your activities during the conference
- + 1 additional free participant (total=3) for the virtual conference

	€ 4,250.00	€ 4,250.00	€ 6,500.00
Sponsorship Contribution	E-Mobility:	Solar & Storage:	Wind:

TERA SPONSOR

SPONSORING OPTIONS

On-site Add-ons (Optional Package Upgrades)

- + Your company logo on on-site banners and screens, printed flyers, printed conference agenda
- + Your company leaflets in delegate bags
- + 1 free participant for the on-site conference (in addition to the free ticket for the virtual conference)
- + 1 free dinner ticket (dinner event subject to approval by the local health department)

MEGA ADD-ON

Additional Sponsorship Contribution

E-Mobility, Solar & Storage and Wind:

€ 1,000.00

All on-site Mega Sponsor benefits

- + Inserts of your choice in delegate bags
- + Your corporate roll-up banner in coffee break area
- + 1 additional free participant (total=2) for the on-site conference (in addition to the free ticket(s) for the virtual conference)
- + 1 additional free dinner ticket (total=2) (dinner event subject to approval by the local health department)

Additional Sponsorship Contribution

E-Mobility and Solar & Storage:

vvii iu.

€ 1,250.00

€ 2,000.00

All on-site Giga Sponsor benefits

- + Upgrade your roll-up banner to a display banner in the coffee break area (size and format to be discussed)
- + One special additional logo arrangement (see page 25 for all options)
- + Corporate roundtable in coffee break area for technical discussions, networking during breaks and poster sessions
- + 1 additional free participant (total=3) for the on-site conference (in addition to the free ticket(s) for the virtual conference)
- + 1 additional free dinner ticket (total=3) (dinner event subject to approval by the local health department)

Additional Sponsorship Contribution

E-Mobility and Solar & Storage:

€ 1,750.00

€ 3,000.00

GIGA ADD-ON

TERA ADD-ON

Special logo arrangement for on-site Tera Add-on

Increase the visibility of your company at the conferences and choose one of the following arrangement within your on-site Tera Sponsor Add-on. Further options can be booked for an additional charge. Please contact us for a quote.

+	Option 1	Dinner Sponsor: Your logo on displays during Workshop Dinner (dinner event subject to approval by the local health department)
+	Option 2	Coffee Break Sponsor: Your logo on coffee table displays
+	Option 3	Workshop guide ad in conference guide
+	Option 4	Distribution of labelled pads & pens

BE TERA SPONSOR TO SEPTIOCIO

All conference sponsoring packages and add-ons do not include tutorial, study trip or dinner tickets unless explicitly included in the benefits list.





Sponsoring Discount

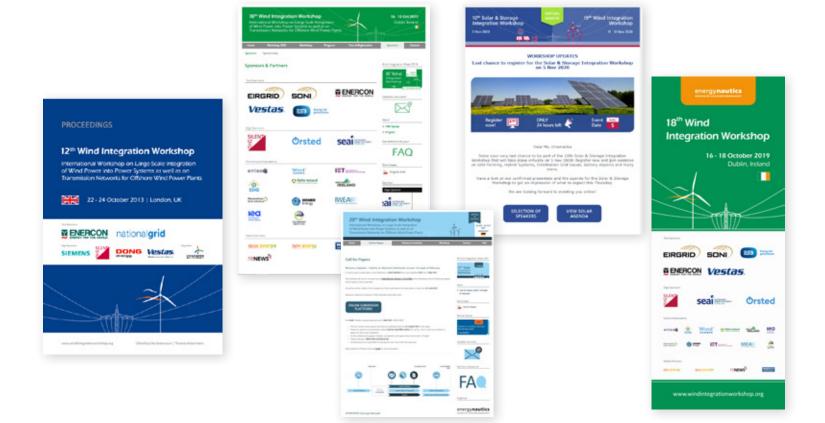
Sponsoring two Conferences will result in a **10**% **discount** in the total sponsoring fee for both workshops.

A 12% discount will be given for sponsoring all three events.



Embedding your Logotype

See here some examples from previous workshops on where your logotype could be positioned.



Examples from left to right:

Proceedings Cover
Website "Sponsors"
Website "Call for Papers"
Newsletter
Rollup

Sponsors of previous Workshops



















































Ambassadors of previous Workshops































































See you in Germany

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