INTERNATIONAL HYBRID POWER PLANTS & SYSTEMS WORKSHOP



organized by energy**nautics**



Previously on the Hybrid Power Plants & Systems Workshop...

Azores, Portugal 2024



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9th International Hybrid Power Plants & Systems Workshop

After eight successful workshops in Hawaii (2013), Puerto Rico (2016), Tenerife (2018), Crete (2019), virtual (2021), Madeira (2022), Faroe Islands (2023) and Azores (2024) we would like to introduce you to the 9th International Hybrid Power Plants & Systems Workshop on the Åland Islands, Finland.

Purpose

The main objective of the workshop is to discuss the challenges that arise with the integration of high shares of renewables (wind, solar, hydro) into isolated power systems and micro-grids in combination with batteries/flywheels and conventional power generators.

Finding viable combinations of conventional and renewable energy is one key solution for the efficient and sustainable running of these types of power systems. International experts will convene for the 9th International Hybrid Power Plants & Systems Workshop to share their project experiences and to detect areas in need of improvement.

Background

One challenge of island grids and micro-grids is to maintain the balance between production and consumption. Diesel generators are still frequently used for this task. Due to the unavoidable dependence on fuel price and delivery options, and the environmental impact, alternatives are being sought. Wind and solar power are independent of imported fuels and environmentally friendly, and therefore the logical choice for island and micro-grids. However, these renewable energies are dependent on variable resource availability; hence their maximum production capacity is subject to natural fluctuations. It is therefore important to develop strategies for how to align production and consumption in the best possible way and to find the perfect combination of conventional and renewable energy.



Workshop

Focus of the Conference

The 9th International Hybrid Power Plants & Systems Workshop offers a prime opportunity to discuss the future of hybrid power systems and hybrid power plants. Participants will look at applications in a variety of locations and operating environments with a focus on system design, operating experience, business models, economics, and implementation issues.

• Regulators and NGOs

• Universities and research institutes

Workshop Target Groups

- System planners and designers
- Operators of small systems
- Project developers and consultants

Proposed Preferential Topics of the Workshop

Hybrid Power/Energy Systems (HESs)

- >>> Hybrid Power Systems Design Options (Island Power Systems)
- >> Hybrid Power System Technologies
- >>> Project Experience and Case Studies: Hybrid Power Systems
- >>> System Modelling and Simulation: Hybrid Power Systems
- >> Pico-/Mini-/Micro-Grid Systems Design
- >> Intelligent Control and Grid Stabilization
- >> Managing Variability and Uncertainty
- >>> Load Assessment Strategies
- >>> Standards and relevant Grid Codes for Hybrid Power Systems
- >>> Regulatory Challenges related to Hybrid Power Systems
- >> Protection Issues for Hybrid Power Systems
- >>> Design of Energy Management Systems for Hybrid Power Systems
- >>> Economic Evaluation of Hybrid Power Systems
- >> Ancillary Services in Hybrid Power Systems
- >> AI (Artificial Intelligence) and Hybrid Power Systems

Hybrid Power Plants (HPPs)

• Technology vendors of distributed variable generation & storage technology

- >>> Hybrid Power Plant Design Options (Combined Wind & Solar plus may be storage as a power plant connected to a grid)
- >>> Project Experience and Case Studies: Hybrid Power Plants
- >>> System Modelling and Simulation: Hybrid Power Plants
- >>> Storage Design and Sizing
- >>> Standards and relevant Grid Codes for Hybrid Power Plants
- >> Intelligent Control and Grid Stabilization
- >>> Resource Assessment and Forecasting
- >>> Managing Variability and Uncertainty
- >>> Remote Mining and Tourist Applications
- >>> AI (Artificial Intelligence) and Hybrid Power Plants

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Workshop Focus

Development of the International Hybrid Power Plants & Systems Workshop

Energynautics has been organizing the International Hybrid Power Plants & Systems Workshop since 2018. The Workshop has developed into an excellent platform for discussing the subject of grid integration of hybrid power into power systems as well as hybrid power plants.

Previous Workshops



* Data for the first and second Workshop not available due to change of organizer.

Review Previous Workshops

Previous Workshops

Faroe Islands, 2023



Madeira, Portugal 2022



Crete, Greece 2019



8th International Hybrid Power Plants & Systems Workshop 2024 Azores, Portugal

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

Regardless of whether the workshops have taken place on-site or virtually, the mix of participant types is a unique advantage for networking and exchange as it does not only appeal to academic participants.

Workshop Participants 2024





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:



Workshop Quality



Watch the aftermovie from Faroe Islands Workshop!



Advisory Committee of the International Hybrid Power Plants & Systems Workshop

The Workshop Advisory Committee currently consists of 32 members. 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 paper/digital leaflets and support the workshop communication.

- Thomas Ackermann | Energynautics, Germany
- Sigrid Bolik | Siemens PTI, United Kingdom
- Benjamin Braun | Fluence Energy, Germany
- Julien Callec | Rte, France
- Peter W. Christensen | SWECO, Denmark
- Kaushik Das | Technical University of Denmark DTU, Denmark
- Jaap de Boer | Energy Watch, Netherlands
- Siebe de Kort | BayWa r.e. Global, Germany
- Ana Estanqueiro | LNEG, Portugal
- Alain Forcione | Hydro Québec/IREQ, Canada
- Jens Fortmann | HTW Berlin, Germany
- Anne Sophie Freunek | BayWa r.e. Global, Germany
- Michael Nørtoft Frydensbjerg | Vattenfall Renewables, Denmark
- Gregor Giebel | DTU, Denmark
- Jutta Hanson | Technical University of Darmstadt, Germany
- Hannele Holttinen | recognis, Finland
- Peter Lilienthal | University of Colorado & Alaska Microgrid Group, USA
- Frank Martin | European Energy, Denmark

- Julija Matevosyan | ESIG, USA
- Nickie Menemenlis | Hydro Québec/IREQ, Canada
- Mahesh Morjaria | Terabase Energy, USA
- Terji Nielsen | SEV, Faroe Islands
- Lise Nielson | Linie P, Denmark
- João A. Peças Lopes | FEUP University of Porto, Portugal
- Gonzalo Piernavieja Izquierdo | Instituto Tecnológico de Canarias, Spain
- Eckard Quitmann | ENERCON, Germany
- Lucija Rakočević | Energynautics, Germany
- Nigel Schofield | University of Huddersfield, United Kingdom
- Lennart Söder | KTH Royal Institute of Technology, Sweden
- Jian Sun | Rensselaer Polytechnic Institute, USA
- Nuno Taveira | ENERCON, Germany
- Pieter Tielens | Engie Impact, Belgium
- Helge Urdal | United Kingdom
- Arjan Winters | Energy Solutions, Netherlands
- Yoh Yasuda | Kyoto University, Japan



The 9th International Hybrid Power Plants & Systems Workshop

- 03 04 June 2025
- Alandica Congress Center on the Åland Islands, Finland
- Expected number of participants: 110 +

Preliminary Timetable 2025

Agenda			
Day 1			
09:00 - 17:30	Keynote Session & Parallel Sessions		
All Day:	Poster Session during Breaks (TBC)		
Evening:	Networking Event		
Day 2			
09:00 - 16:00	Parallel Sessions & Closing Session		
All Day:	Poster Session during Breaks (TBC)		
	Agenda Day 1 09:00 - 17:30 All Day: Evening: Day 2 09:00 - 16:00 All Day:		



Study Trip

A Study Trip to power system facilities on the island is planned for Thursday, 05 June 2025.



About the Organizer

The International Hybrid Power Plants & Systems Workshop has been organized by Energynautics, Germany since 2018. It is a partner event of the renowned Wind & Solar Integration Workshop, E-Mobility Power System Integration Symposium and Hydrogen Power System Integration Symposium organized annually by Energynautics as well.

As an expert in isolated power systems with a high share of renewable energies, Energynautics brings extensive knowledge and project experience to the table.

Island	Client	Grid Code	Grid Study	Microgrid Development	Demand Site Management
Guyana	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)		x		
Indonesia	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)	x	х		
Dominican Republic	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)		x	x	
Bahamas	United Nations Industrial Development Organization (UNIDO) & Inter-American Development Bank (IDB)		x		
Bahamas	Grand Bahama Power Company	х	x		
Trinidad & Tobago	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)		x		
Galápagos Islands	Inter-American Development Bank (IDB)		x		
Barbados	Barbados Light & Power Company (BLPC)	x			
Republic of Seychelles	World Bank & the Government of the Seychelles		x		
Sint Maarten	World Bank, National Recovery Program Bureau (NRPB) & Gemeenschappelijk Elektriciteitsbedrijf Bovenwindse Eilanden (GEBE)		x		
Lampedusa & Cyprus	Funded by: Bundesministerium für Wirtschaft und Klimaschutz der Bundesrepublik Deutschland (BMWK)				х

Workshop Organizer

Your Benefits as Sponsor

Being sponsor of the International Hybrid Power Plants & Systems Workshop not only raises awareness for your company among participants but also gives you the following two main advantages:

> MEET YOUR FUTURE EMPLOYEES & PARTNERS





PROFESSIONAL

- 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

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

Your Sponsoring Package

GIGA SPONSOR

- Your company logo on conference website, newsletters, digital papers (incl. link to your website) and sponsor overview slides during the conference
- » Your ad in digital papers
- » Your company information in the digital delegate bag (max. 10 MB)
- » Dedicated social media post announcing you as a conference sponsor
- » Your company logo on on-site banners and screens, printed flyers, printed conference agenda and NEW: conference app
- » **One** free participant for the conference
- » **One** free dinner ticket
- » NEW: Appointment Tool for all Participants of the Sponsor

P€2,900.00



- Your company logo on conference website, newsletters, digital papers (incl. link to your website) and sponsor overview slides during the conference
- » Your ad in digital papers
- Your company information in the digital delegate bag (max. 10 MB)
- » Your dedicated company slide before two selected sessions
- » Dedicated social media post announcing you as a conference sponsor

- » Content box in one newsletter issue
- » Your company logo on on-site banners and screens, printed flyers, printed conference agenda and NEW: conference app
- » Your corporate roll-up banner in coffee break area
- » **Two** free participants for the conference
- » Two free dinner tickets
- » NEW: Appointment Tool for all Participants of the Sponsor



» Your company logo on conference website, newsletters, digital papers (incl. link to your website) and sponsor overview slides during the conference

- » Your ad in digital papers
- » Your company information in the digital delegate bag (max. 10 MB)
- » Your dedicated company slide before two selected sessions
- » Your company video before a selected session/lunch break (max 30 s/5 min)
- » Your company logo on on-site banners and screens, printed flyers, printed conference agenda and NEW: conference app

- » Display banner in the coffee break area (size and format to be discussed)
- » **Corporate roundtable** in coffee break area for technical discussions, networking during breaks and poster sessions
- » One special additional logo arrangement
- » Three free participants for the conference
- » Three free dinner tickets
- » NEW: Appointment Tool for all Participants of the Sponsor

₽ € 8,900.00

Embedding your Logotype

Here are some examples from the International Hybrid Power Plants & Systems Workshop on where your logotype could be positioned.





Tabletop Display



Newsletter

Website

Capacity Building

Many sponsors use the workshop as a training programme for their employees. Take advantage of this unique opportunity to send a larger group to the events of the International Hybrid Power Plants & Systems Workshop at a discount price. We are happy to respond flexibly to your wishes - usually our sponsors prefer one of the following approaches:

Capacity Building

FIXED BUDGET



FIXED NUMBER OF EMPLOYEES



You have a fixed training budget? Let us know your desired price and we will make you an offer that allows as many of your staff as possible to participate in the workshop. You already have an idea of how many employees you want to send? Then we will be happy to make you a cost-effective offer for your group.

Sponsors & Ambassadors of previous International Hybrid Power Plants & Systems Workshops

organized by Energynautics



Sponsors & Ambassadors of previous Partner Workshops

organized by Energynautics



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PARTNER



STRATEGIC PARTNER

