

Wind Energy Training Invitation

GSAN international Wind Industry Training

„GSAN-iWIT2023“ at SRH in Berlin



8th to 15th September, 2023

on Zoom and offline at

SRH Berlin University of Applied Sciences

The certified attendance costs 370 EUR for professionals, students 220/280 EUR, incl. tax, group tickets available!



Join the Industry !!



Training Outcomes

- develop your understanding of wind energy use
- understand the aerodynamics of wind turbines as well as control strategies
- calculate the annual energy yield and choose the suitable, most economic wind turbine
- get first-hand market info
- do the matchmaking with the German and international industry



Incl. guided tour to wind energy tradeshow, excursions and cultural events

<https://husumwind.com>

<https://www.srh-berlin.de/en/short-courses/training-wind-energy/>

Optional: Hands-on wind turbine workshop.

Contact: training@gsan.solar, raab@pv-pa.com, www.gsan.solar

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3.5-day Training Program Details

Session 1: Global status of wind energy - benefits of wind energy

Session 2: Introduction to wind energy - physics behind the generation of wind and its occurrence - historical development of wind turbines - types of small and large wind turbines

Session 3: Wind resources measurement and assessment - atmospheric conditions, complex terrains, wind farm effects - site assessment (site selection, measurement equipment, types of meteorological masts, etc.) - energy yield calculation

Session 4: Aerodynamics of wind - the acting forces - basic blade designs and their influence on the aerodynamic performance

Session 5: Working principles and efficiency of wind turbines - wind energy and wind power - overall turbine efficiency

Session 6: Mechanical components - rotor - drive train - support structure

Session 7: Electrical system and control concepts - grid-connected and off-grid wind power - types of control strategies

Session 8: Planning, building and commissioning - phases of wind energy project development - energy yield assessment - grid-connection of wind turbines - financing and economic calculation

Incl. hands-on exercises (demonstration of small wind turbine, handling of multimeters, use of excel sheets and simulation software to calculate energy yield), excursions, cultural program, training hand-outs and insider tips, university certificate (4ECTS) and post-seminar guidance



We are cooperating with partaking wind companies and have 1:1 matchmaking sessions and site-visits.

Our SRH-accredited main trainer Mr. Abdulkarim Abdulrazek of University Oldenburg has 12 years of experience in international project and construction management, wind energy consulting and engineering, acted more than 6 years in wind energy research and has conducted wind tunnel experiments and installations in several countries like Germany, North Korea, Lebanon, Saudi Arabia, Morocco, Mongolia and Indonesia.

Furthermore Mr. Karim is specialized in the design and optimization of testing facilities for small wind turbines following the IEC 61400-2 standard, constructed wind measurement systems on meteorological masts and knows how to run QM systems.

Call the training coordinator, contact us also on WhatsApp: 0049-162-8002010 or send mail to raab@pv-pa.com

