



Training Objectives

- Deepen your understanding of wind energy utilization.
- Gain insight into wind turbine aerodynamics and control strategies.
- Obtain first-hand market information.
- Network with the German and international industry.

Includes a guided tour of the wind energy trade fair, excursions, and cultural events. www.husumwind.com



HUSUM WIND

September 14–17, 2027

Information, inspiration and networking around renewable energies

Optional: Hands-on workshop on wind turbines

The participation fee is €450 / €370 for professionals and €220 / €280 for students (incl. VAT); group tickets are available!

A 30% discount applies for online-only participation.

In cooperation with:



Any questions?

Please contact the course coordinator for further information:

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<https://www.srh-university.de/en/short-courses/solar-winter-school/e/>
www.gsan.solar

srh

Berlin University of Applied Sciences

GSAN international Wind Industry Training #7 Berlin, Hamburg, Husum GSAN-iWIT 2027

10 – 17 September 2027 | **Hybrid**



3.5 days Training Program Details

Session 1

Global status of wind energy - Benefits of wind energy

Session 2

Introduction to wind energy - Physics of wind formation and occurrence - Historical development of wind turbines - Types of small- and large-scale wind turbines

Session 3

Measurement and assessment of wind potential - Atmospheric conditions, complex terrain, wind farm impacts - Site assessment (site selection, measurement equipment, types of measurement masts, etc.) - Energy yield calculation

Session 4

Wind aerodynamics - The forces at play - Basic rotor blade designs and their impact on aerodynamic performance

Session 5

Operation and efficiency of wind turbines - Wind energy and wind power - Overall system 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, construction, and commissioning - Phases of wind turbine project development - Yield forecasting - Grid connection of wind turbines - Financing and economic viability analysis

Includes hands-on exercises (demonstration of a small wind turbine, use of multimeters, use of Excel spread sheets and simulation software to calculate energy yield), field trips, a cultural program, training materials and insider tips, a university certificate (4 ECTS), and post-seminar support.

We collaborate with participating wind energy companies and conduct one-on-one matchmaking meetings as well as site visits.

Become a Wind Energy Expert

Our **SRH**-accredited lead trainer, Mr. Abdulkarim Abdulrazek from the University of Oldenburg, has **20 years of experience** in international project and construction management, as well as in consulting and engineering within the wind energy sector. He has been active in wind energy research for **over 15 years** and has conducted wind tunnel tests and installations in various countries, including Germany, North Korea, Lebanon, Saudi Arabia, Morocco, Mongolia, and Indonesia.

Furthermore, Mr. Karim **specializes** in the design and optimization of testing facilities for small wind turbines in accordance with the **IEC 61400-2 standard**, has installed wind measurement systems on meteorological masts, and possesses experience in the operation of quality management systems.

