



Fit in wind energy and green hydrogen

Beginner's seminar from September 03 - 05, 2024

Hotel: Atlantic Grand Hotel Bremen

Registration: www.wab.net/termine/veranstaltungen/

Day 1 – 3: Member 999,- € Non-member 1.299,- € Day 1 + 2: Member 790,- € Non-member 990,- € Day 3: Member 395,- € Non-member 495,- €

All prices plus 19% VAT.

Basic seminar "Fit in wind energy"

03. September, 09.00 – 17.00 Uhr

Speakers: Markus Nölke (WAB e.V.) and Jan Liersch (FGW e.V.) Max. 20 participants

PART 1:

"How to achieve energy from wind"

BLOCK I

Introduction to the use of wind energy

- Brief insight into the potential of wind energy for the energy supply
- Power from the wind and power conversion by a wind turbine (WTG)
- Wind regime at the location wind distribution, turbulence and site influences

BLOCK II

Market and technology of wind energy

- Technical concepts and designs of wind turbines -Gearbox or direct drive?
- State of the art in wind energy technology: offshore and onshore wind turbine
- Technology trends in wind energy utilization

PART 2:

"How to achieve money from wind"

BLOCK III

Planning and financing wind farms

- Yield analysis of wind turbines and wind farms
- Financing wind farm projects
- Political framework conditions

BLOCK IV

Industry aspects of the use of wind energy

- Operation and maintenance of wind farms
- Technical framework conditions for wind energy
- Grid connection and grid expansion

Advanced seminar "Offshore"

04. September, 09.00 - 17.00 Uhr

Speakers:

Markus Nölke (WAB e.V.), Dr. Bernd Horstmann (Summit Renewable Power GmbH) and Alexander Schneeweiß (EnBW Energie Baden-Württemberg AG) Max. 20 participants

PART 3:

"Entry into the offshore wind industry"

BLOCK V

Introduction to

- National and international offshore wind energy market
- Status of German offshore projects
- Energy policy

BLOCK VI

Development and financing

- Project development/approval procedure
- Grid connection
- Financing of offshore projects

BLOCK VII

Design, technology and installation

- Fixed and floating foundation
- Offshore wind turbines
- Offshore substation
- Cable systems
- Land station
- Ports and harbours
- Other works

BLOCK VIII

Scheduling, Costs, safety and environmental protection

- Time Scheduling
- 🜔 Costs
- Access systems
- Helicopters
- Safety and environmental protection

BLOCK IX

Operation and maintenance

- O&M tasks in offshore wind energy
- Infrastructure and logistics
- Special challenges



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Getting started with "green" hydrogen

05. September, 09.00 – 17.00 Uhr

Speakers: Markus Nölke (WAB e.V.) Alexander Zaczek (EnBW Energie Baden-Württemberg AG)

Max. 20 participants

PART 4: Getting started with "green" hydrogen

BLOCK X

Introduction - What is hydrogen and why hydrogen?

- Basic concepts
- Chemistry and physics of hydrogen
- Hydrogen then, now and in the future
- The hydrogen rainbow
- RENBO

BLOCK XI

Production, Transportation and storage

- Changing applications and production processes
- Electrolysis
- Transportation
- Import
- Storage

BLOCK XII

Hydrogen in the energy system

- Power generation
- Mobility and transportation
- Industry
- Heating
- Sector coupling
- Hydrogen demand forecasts

BLOCK XIII

The path to a green hydrogen future

- Political strategies and frameworks
- Research
- Funding and incentives
- First large-scale projects
- Infrastructure
- Hydrogen market



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