



Offshore wind connections systems and technology



OBJECTIVE

- Discover what main current offshore trends are in the market.
- Understand the technology behind offshore wind installations, including the structure of wind farms and the requirements from the power grids.
- Define the HVDC and HVAC technologies and their main aspects.
- Deep dive in the types of compensation equipment needed in offshore installations, including FACTS and other systems.
- Get to know what grid codes are and the specific compliance requirements offshore wind farms should comply with.
- Understand what system studies are needed for wind farm projects at different stages.



AUDIENCE

Engineers or technicians interested in offshore wind technologies.



CONTENT

General introduction to offshore wind

- High level introduction to offshore wind business
- Current trends globally and locally

Technology available and current trends

- Wind turbine technology
- Structure of the wind farms
- Requirements from the grids

HVDC/HVDC light and HVAC technology for the interconnection

- Basic principles and system aspects
- Configurations
- Interconnection feasibility (HVAC vs HVDC)

FACTS and other compensation equipment

- General understanding of the devices (FACTS, STATCOM, SVC shunt reactors, filters, etc.)
- Main application in offshore wind

Grid code compliance – trends and challenges

- Compliance assessment and analysis
- Current regulation in different markets

System studies expected during different project stages

- Understanding on what studies is required during each project stages:
 - Strategic plan development
 - Roll out/conceptual design
 - Operation and maintenance

LIVE ONLINE TRAINING

Duration: 20 hours

More information and registration here:

<https://bit.ly/HitachiGridAcademy>