



Workshop "HVDC TOWARDS THE FUTURE"

ETSEIB. Escola Tècnica Superior d'Enginyeria Industrial de Barcelona,
Universitat Politècnica de Catalunya.
UPC BarcelonaTech, Avda. Diagonal 647, Barcelona
Aula Schneider, 2nd floor



The workshop will focus on the developments related to High Voltage DC Transmission for offshore wind power. The different concepts of modern wind power plants will be presented, including modular generators and power electronic converters. Advanced control approaches for wind power integration into the electrical grid will be also discussed.

Barcelona, Thursday 24th April 2014

9h00	Welcome and registration
9h15	Rationale for DC and offshore grids 1
9h15	Oriol Gomis – <i>Introduction.</i>
9h50	Eduardo Prieto – <i>Modular generators for offshore wind turbines.</i>
10h25	Kevin Schönleber – <i>DC collector array for offshore wind.</i>
11h00	Coffee Break
11h30	HVDC Converter Technologies
11h30	Abel Ferreira – <i>VSC -HVDC: state of the art.</i>
12h15	Joan Sau – <i>Current source converters for HVDC applications.</i>
12h45	Lunch
14h30	Technical Visit

Barcelona, Friday 25th April 2014

9h30	DC Grid Control
9h30	Agustí Egea – <i>Overview of DC grids control.</i>
10h30	Coffee Break
11h00	Muhammad Raza – <i>Network configuration and topologies for multi-terminal VSC HVDC transmission system.</i>
11h25	Zahra Solhjokhah – <i>Multi-Terminal HVDC transmission system supplying a passive load.</i>
11h50	Mònica Aragüés – <i>Droop control for loss minimization in HVDC multi-terminal transmission systems for large offshore wind farms.</i>
12h30	Lunch
14h00	CITCEA's Group
14h00	Daniel Montesinos – <i>CITCEA-UPC Group</i>
14h30	Daniel Heredero – <i>Control algorithms implementation for AC/DC micro-grid</i>
15h00	CITCEA's Visit
17h00	Closure

Organizing committee

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