



PROMOTioN

PROGRESS ON MESHED HVDC
OFFSHORE TRANSMISSION
NETWORKS



Overview of key technologies

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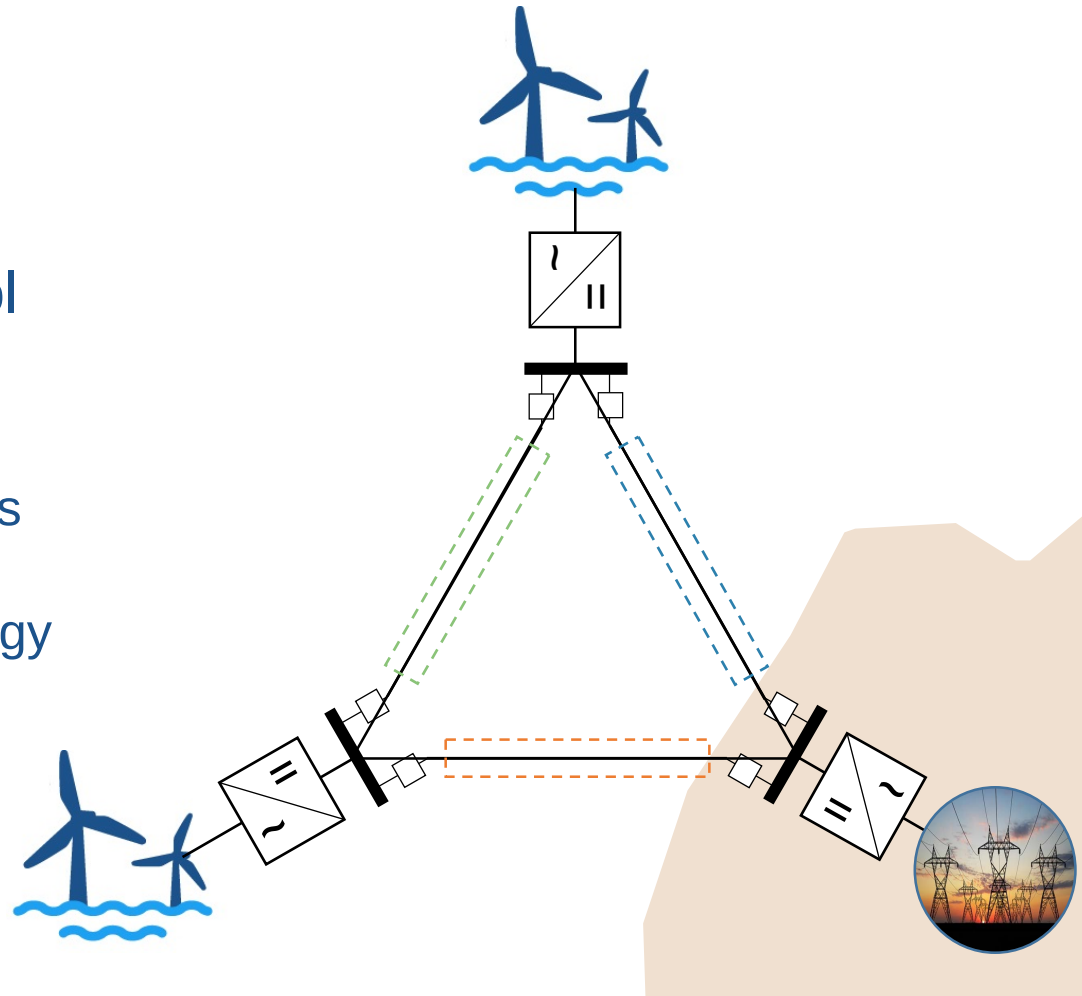


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Ingredients for a meshed offshore HVDC grid

- Topology
 - Adequacy and security
- Converters
 - AC grid compliant
 - Interoperable
- Grid & wind farm control
 - Ancillary services
 - Black start capability
 - Grid restoration
 - Interoperable hierarchies
- Protection system
 - Fault detection technology
 - Fault clearing strategy
- Nodes
 - HVDC GIS
 - HVDC circuit breakers



PROMOTioN research on meshed HVDC grid

	Topology	Converter & Grid Control	Wind Farm Control	Protection System	HVDC Circuit Breakers	HVDC GIS
Formulate requirements	WP1	WP2	WP3	WP4	WP4 WP5	WP15
Modelling	WP12	WP2	WP3	WP4	WP6	WP15
Technology specification	WP12	WP2	WP3	WP4	WP6	WP15
Validation methods	WP2	WP2	WP3	WP9	WP5	WP15
Interoperability	WP2	WP2	WP3	WP4	WP4	WP15
Demonstration		WP16	WP16	WP9	WP10	WP15
Technology roadmap	WP12	WP12	WP12	WP12	WP6	WP12
Standardisation	WP11	WP11	WP11	WP11	WP11	WP11



APPENDIX

DISCLAIMER & PARTNERS

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MAIL info@promotion-offshore.net WEB www.promotion-offshore.net

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PROJECT COORDINATOR

DNV GL Netherlands B.V.

Utrechtseweg 310, 6812 AR Arnhem, The Netherlands

Tel +31 26 3 56 9111

Web www.dnvgl.com/energy

CONTACT

PARTNERS

DNV GL Netherlands B.V., ABB AB, KU Leuven, KTH Royal Institute of Technology, EirGrid plc, SuperGrid Institute, Deutsche WindGuard GmbH, Mitsubishi Electric Europe B.V., Affärsverket Svenska kraftnät, Alstom Grid UK Ltd (Trading as GE Grid Solutions), University of Aberdeen, Réseau de Transport d'Électricité, Technische Universiteit Delft, Statoil ASA, TenneT TSO B.V., Stiftung OFFSHORE-WINDENERGIE, Siemens AG, Danmarks Tekniske Universitet, Rheinisch-Westfälische Technische Hochschule Aachen, Universitat Politècnica de València, SCiBreak AB, Forschungsgemeinschaft für Elektrische Anlagen und Stromwirtschaft e.V., Ørsted Wind Power A/S, The Carbon Trust, Tractebel Engineering S.A., European University Institute, Iberdrola Renovables Energía, S.A., European Association of the Electricity Transmission & Distribution Equipment and Services Industry, University of Strathclyde, ADWEN Offshore, S.L., Prysmian, Rijksuniversiteit Groningen, MHI Vestas Offshore Wind AS, Energinet.dk, Scottish Hydro Electric Transmission plc, SCiBreak AB

