NC HVDC: wind industry view on the scope

Frans Van Hulle
Principal Technical Consultant for EWEA

ENTSO-E NC HV DC User Group MT Brussels 11 June 2013

Interest and concerns

Expressed by EWEA in first User Group Meeting

- Absence of requirements in view of large foreseen offshore deployment: risk of diversity and improper requirements copy pasted from onshore codes
- Complexity of DC issues versus time needed/available for proper DC code development
- Need for a well thought of code structure

How do PPM fit into the NC?

How will connection requirements for PPM be fitted among the HVDC into this Network Code?

- Scoping document indicates a copy-paste action from NC RfG
- account of comparative technical and economic benefits of PPM versus HV DC, and among technologies (HV DC VSC and LCC) ?
  - **We do not believe in straightforward application of technology neutrality of the NC** – it will lead to excessive costs and technology selection (exclusion) implications

Further clarifications / discussions needed

New diversity in requirements should be avoided

The description of the classification principle (exhaustive etc.) in the document **without giving guidance** how to apply these principles opens up to new diversity of requirements at the national level

- Aiming at **harmonized connection requirements** for PPM throughout Europe should be used as **a main principle**, in order to enable the wind industry to develop standardized solutions.

PPM on offshore AC island: dedicated requirements coordinated with HV DC

Requirements for DC connected offshore PPM to be based on

- detailed analysis of technical specificities and system needs
- **coordination of functionalities** to deliver the necessary capabilities between PPM and HV DC link in the relevant points of connection (onshore/offshore).
- Driving principle: most cost efficient solutions

Not acceptable: automatic copy paste from the NC RfG

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Thank you

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