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DEVELOPMENT OF OFFSHORE WIND TRANSMISSION – LESSONS LEARNED

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REGULATORY CONSIDERATIONS

- *RTOs Generally Lack a Fully Defined Process for Implementing Public Policy Projects*
- *Timing of RTO Interconnection Review can Complicate Project Selection*
- *Challenging for Procuring Entity to Obtain Full Guarantee of Project Cost and Construction Schedule*
- *Federal Tax Incentives Currently not Available*
- *"Open Access / Free Rider" Concerns Remain*

PERMITTING AND CONSTRUCTION CONSIDERATIONS

- *BOEM ROW Grant Process not Fully Aligned with Procuring Entity Project Selection Process*
- *BOEM Grant / Review Processes can Amplify Project-on-Project Risk*
- *Use of HVDC Export Cables can Minimize Number of Shoreline Crossings and Facilitate Additional Onshore POIs*
- *Proactive and Creative Planning of Onshore Grid Upgrades can Minimize Environmental and Community Impacts*

TECHNOLOGY CONSIDERATIONS

- *Onshore Grid Upgrades may be More Important than Offshore System*
- *HVDC Technology not Interchangeable, which Creates Initial Design Selection Challenge*
- *HVDC Technology is Rapidly Evolving, which Limits Ability to "Future Proof" an Offshore Collector System*
- *New OSW Generation Projects may be ≥ 1.2 GW: Full Capacity of HVDC Export Cable Utilized, which may Obviate Need for Offshore System*

RECOMMENDATIONS

- *Integrate Long-Term Multi-Driver Planning into RTO RTEP Process*
- *Encourage Inter-RTO Coordination / Planning*
- *Streamline BOEM Process for Offshore Transmission Facilities*
- *Require "Mesh-Ready" OSW Generation Projects*
- *Proactively Identify and Develop Onshore POIs*

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