



# **Comments on NE Regional Transmission Initiative RFI**

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**October 7, 2022**

# Three Basic Considerations

- 1) “...developing and building new transmission takes many years” - RFI page 2.
- 2) “...significant landside upgrades will be necessary to enable interconnection of additional offshore wind...” – MOWIP/RFI page 8.
- 3) “Identify potential POIs for renewable energy resources, including offshore wind.” – RFI page 5.

# 1) Building Transmission Takes a Long Time

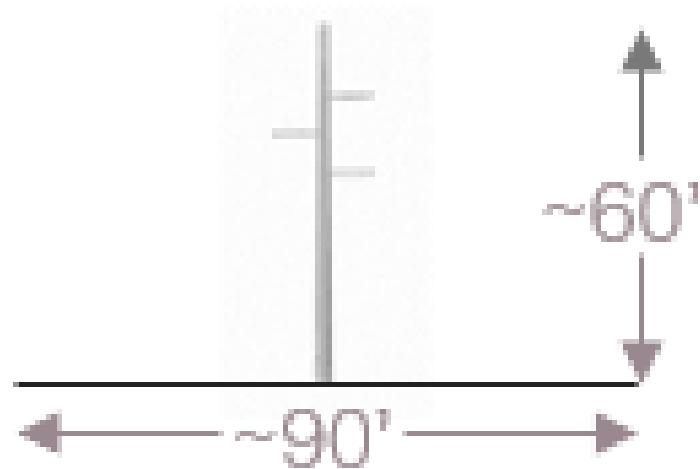
- **Gigawatts of offshore wind integration by the early 2030s.**
- **Take a long view on emerging technologies that will help with the integration.**
- **E.g., Cross-Sound Cable VSC HVDC system 2003.**

## 2) Landside upgrades are unavoidable

- **Siting will be a major challenge.**
- **Consider emerging technologies that make better use of existing rights of way.**
- **GETs, Carbon Core Conductors, Superconductors.**

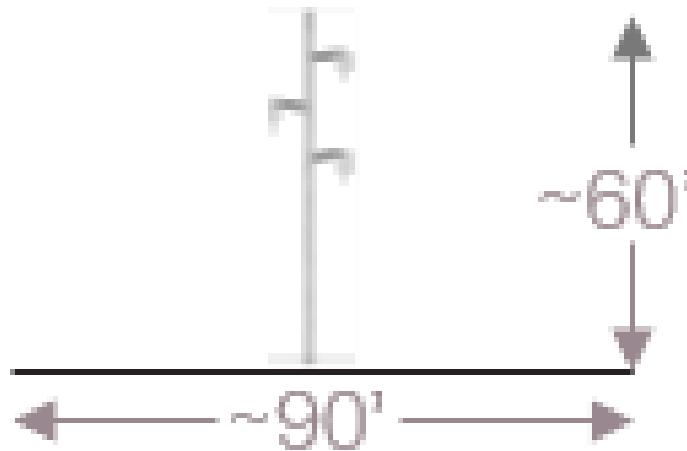
# VEIR Superconductors

Conventional 115 kV AC



180 MW

VEIR 115 kV AC



1,000 MW

### 3) Potential POIs Increase with New Technology

- The low hanging fruit of closed coal and nuclear plants are gone.
- ....so are the wide rights of way with 345kV lines that connected them to load.
- New technologies that access narrower corridors to move more capacity increases options and can reduce abutter conflicts.



# Summary

**Consider, support, and incorporate in  
your planning emerging technologies  
that will become available over the  
lifespan of your planning cycle.**



Thank you!



More Power, Less Tower.

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