



Avangrid Renewables

Offshore Wind Business Overview

May 2022

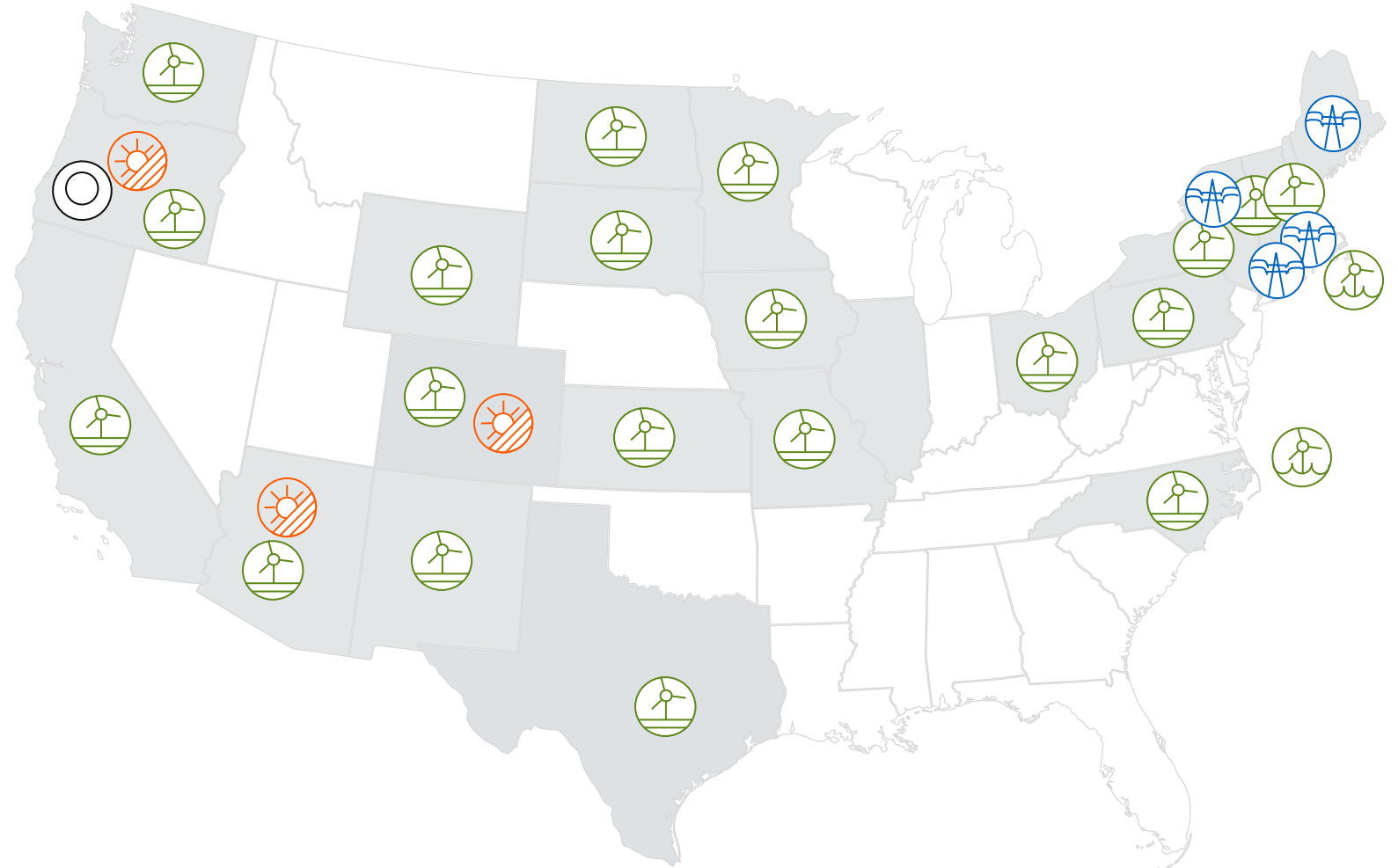


3rd Largest Wind Operator in the US

 **8 GW**
Wind & Solar in Operation

 **5 GW**
Offshore wind lease capacity

 **800+ Employees**
in the US



 Wind

 Solar

 Thermal

 Networks

US Offshore Wind Project Interconnection Status

ISO New England

1 Vineyard Wind 1 (800 MW)

- Connecting to Barnstable, MA
- Under construction
- Expected In-Service Date – 2024
- Will supply power to 400,000 homes in Massachusetts



2 Park City Wind (804 MW)

- Connecting to West Barnstable, MA
- In Pre-Construction Design and Engineering phase
- Expected In-Service Date – end of 2025/26
- Will supply power to 400,000 homes in Connecticut

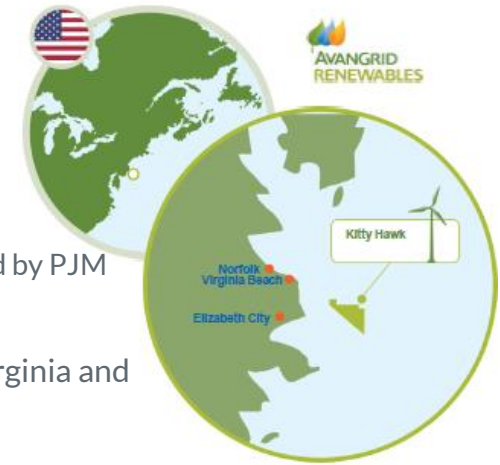
3 Commonwealth Wind (1232 MW)

- Connecting to West Barnstable, MA
- In System Impact Study phase
- Expected In-Service Date – 2027
- Will supply power to 750,000 homes in Massachusetts

PJM and Carolinas

4 Kitty Hawk Wind (2400 MW)

- Connecting to Virginia and North Carolina
- In PJM Facilities Study phase
 - Interconnection timeline likely delayed by PJM queue reforms
- Expected In-Service Date – TBD
- Will supply power to 700,000 homes in Virginia and North Carolina



Interconnection and Transmission Challenges

Challenges

- Long interconnection study timelines
- Single generator pays approach
- Rising upgrade costs for new interconnections

Needed Enhancements

- Efficient cost allocation methodology – primary beneficiaries pay approach
- Long-term transmission assessments to meet future needs based on resource mix, state and federal goals and regulations
- Future generations of OSW projects require a different approach
 - For example, Mesh network model approach
- Identify upgrades that have regional benefits beyond accommodating OSW, including reliability and economic benefits and share costs accordingly
- Effective implementation of FERC NOPR RM21-17-000