

Floating Wind Solutions

Floating Wind in the US

Kevin Banister, Chief Development Officer, Simply Blue Group & President, TotalEnergies SBE US



Organized by   Quest Offshore

AGENDA

- TotalEnergies SBE US: a U.S. pure-play floating offshore wind (FOW) JV
- The FOW opportunity
 - Drivers as opportunity
 - U.S. leadership in this new global industry
- Seizing the opportunity
 - State and federal actions
 - Industry

TotalEnergies SBE US: Our DNA

- **TotalEnergies is one of the world's largest energy companies** and has the ambition to install **100 GW of global renewable power generation by 2030** to become one of the world's top 5 in renewable energies
- TotalEnergies has the ambition to become a key player in bottom-fixed and one of the **world leaders in floating offshore wind**
- TotalEnergies has over **6 GW** of offshore wind in development around the globe, of which over **40% is floating offshore wind**
- The floating wind pipeline includes the **2.3 GW BadaEnergy** project in South Korea

- **Simply Blue Group (SBG)** is a blue economy developer based in Cork, Ireland with offices in the UK, Germany, and U.S.
- In the offshore wind space, SBG is a pure-play **floating offshore wind developer** and we are **substructure agnostic**
- SBG has over **3 GW of floating offshore wind projects in development** off the UK and Ireland
- Blue Gem Wind Portfolio - JV with TotalEnergies in Celtic Sea (400 MW+)
- Emerald and Western Star Floating Wind Portfolio – JV in Celtic Sea (2.3 GW)
- Salamander Project – JV in North Sea (200 MW)



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TotalEnergies SBE US: Our Partnership

- TotalEnergies SBE US combines **TotalEnergies'** expertise in large-scale offshore projects, **Simply Blue Group's** floating know-how, and a team of pioneers of the U.S. offshore wind industry, to unlock untapped deep-water opportunities on the east and west coasts that will provide renewable electricity to millions of U.S. homes
- TotalEnergies SBE US marks another step in Simply Blue Group's partnerships with TotalEnergies to mobilize the necessary expertise and investment to deploy floating offshore wind at utility scale worldwide
- Between Simply Blue Group and TotalEnergies, we have **nearly 6GW** of floating offshore wind projects under development globally



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TotalEnergies SBE US: Our Team



Kevin Banister
Chief Development Officer,
Simply Blue Group and JV
President

- 20 years in renewable energy
- For nearly 10 years, built a multi-GW pipeline of floating offshore wind projects as VP, Head of Development of Principle Power



Lauren Spence
Vice President, TotalEnergies
SBE US, Senior Business
Developer, TotalEnergies US

- Attorney with 15+ years experience in the energy sector
- Commercial asset management and M&A experience across development pipelines



Stephanie McClellan
Chief, Strategy and Policy

- 12 years in the US offshore wind industry
- Founder/Director of the Special Initiative for Offshore Wind (SLOW)
- Director of Strategic Initiatives for Atlantic Wind Connection



Alana Duerr
Director, U.S. Projects

- Part of offshore wind industry in US since 2013, with both public and private sector roles
- Most recently, Director of Offshore Wind North America at DNV
- Previously, Offshore Wind R&D Lead at U.S. Department of Energy



Karolina Pietrzak
Deputy Chief Development
Officer, Simply Blue Group
and JV Senior Advisor

- Nearly a decade of offshore wind experience in EU and US
- Led early-stage development activities and auction preparation for EnBW in U.S.
- Served as Owner's Engineer for CVOW project at Ramboll



Peter Cogswell
Director of Governmental and
External Affairs – West

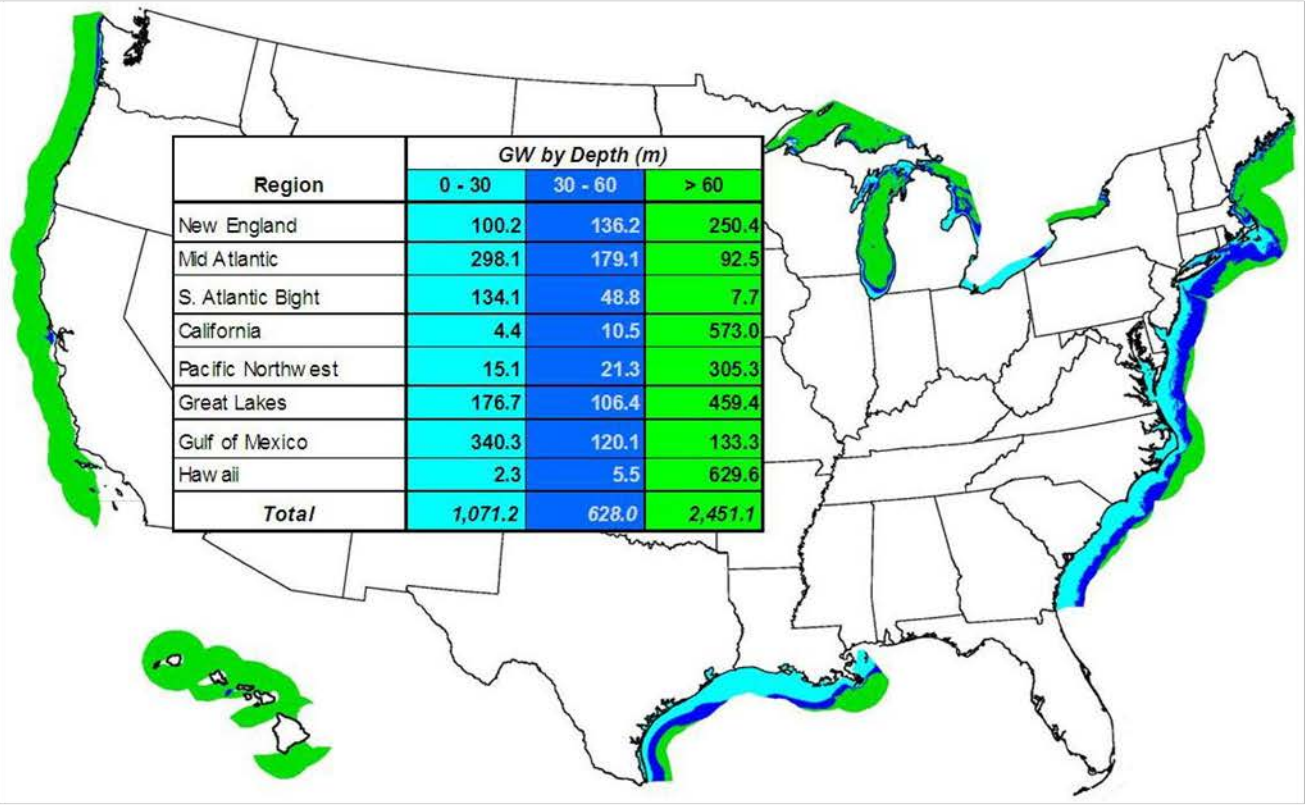
- 20+ years experience with Pacific Northwest energy policy
- Energy policy advisor and chief of staff to Oregon Governor Kulongoski
- Former Director of Intergovernmental Affairs at Bonneville Power Administration

US Floating Wind: A Resource of National Importance

Washington
100% non-emitting electric supply by 2045

Oregon
100% GHG reduction below baseline level by 2040

California
100% zero carbon electricity by 2045



Massachusetts
85% of 1990 GHG levels by 2050

New York
Zero emission electricity sector by 2040 and reduce economy wide emissions by 85% of 1990 levels by 2050

New Jersey
100% carbon neutral electricity generation by 2050; reduce GHG by 80% of 2006 levels

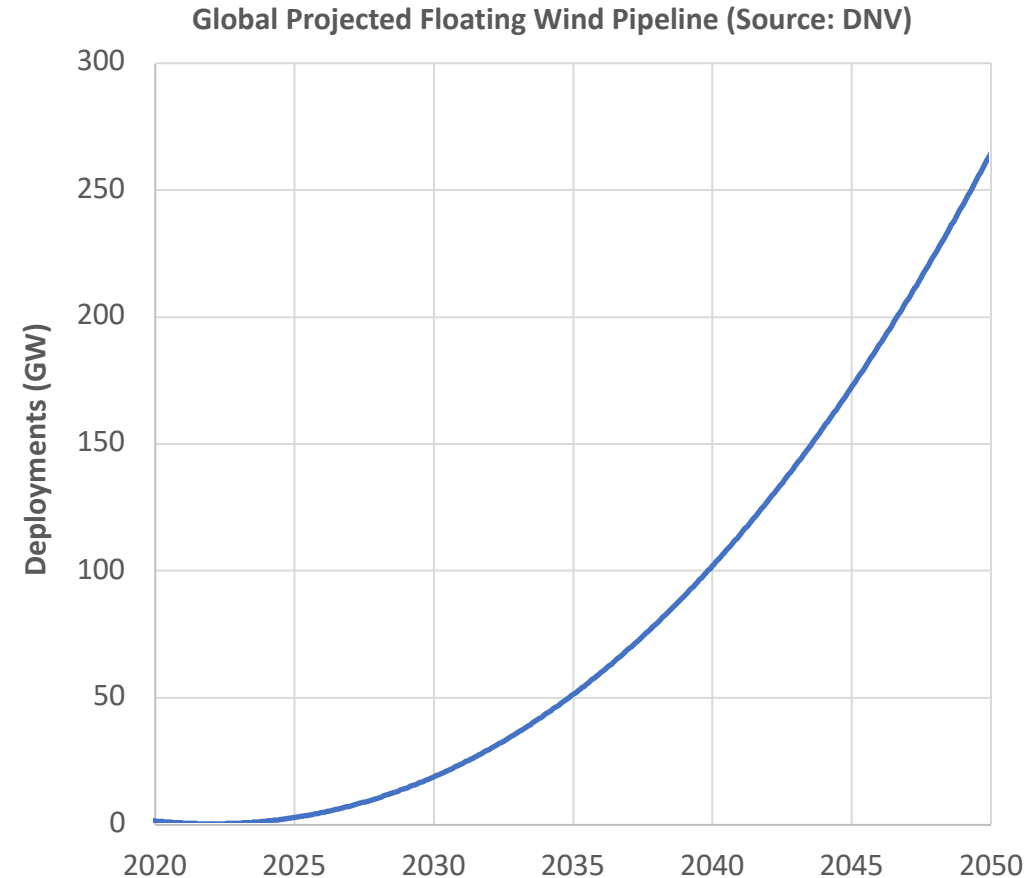


35 GW of Floating Wind by 2040

State	Goal status	Source
Massachusetts	<ul style="list-style-type: none">“... must be deployed at scale (15-20 GW ... installed) in the Commonwealth over the next 30 years”Commonwealth has called for commercial leasing in the southern Gulf of Maine	https://www.mass.gov/doc/ma-2050-decarbonization-roadmap/download
New York	<ul style="list-style-type: none">“... around 20 GW of offshore wind”Announced Master Plan 2.0 -- <i>Deepwater</i>	https://climate.ny.gov/Our-Climature-Act/Draft-Scoping-Plan
California	<ul style="list-style-type: none">Megawatt targets for 2030 and 2045 due by June 1, 2022CAISO has included in the range of 10GW of offshore wind in its 20-year forecast and planning for California's transmission needs	https://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill_id=202120220AB525
Oregon	<ul style="list-style-type: none">Studying benefits and challenges of integration of up to 3 GW by 2030	https://www.oregon.gov/energy/energy-oregon/Pages/fosw.aspx

Seizing the Opportunity: Whole of Government Approach

- The race is on for the global floating wind supply chain
- BOEM can provide the critical foundation for the scale and certainty through leasing large lease tracts (3-5 GW WEA's)
- DOI/DOE "Floating Wind Vision" and NOWRDC investments that place U.S. industrial leadership opportunities at center of federal investments
- Manufacturing tax incentives, port investments that look to a floating future



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Supply Chain: Focus on Oregon

- Study released **today** finds that the Port of Coos Bay meets key criteria to enable deployment of gigawatts (GW) of floating offshore wind power in Oregon and elsewhere on the U.S. West Coast.
- With targeted investments, it will have all the capabilities and space it needs to be a major hub including:
 - Turbine manufacturing & Foundation fabrication
 - Staging for assembly & Mounting turbines
 - Load out & deployment
 - Operations and maintenance.
- The planned channel widening will also allow for substructures to be towed in and out of the port.
- The investments to build an offshore wind integration facility at Coos Bay – capable of assembling large 10-20 megawatt floating wind turbines – are estimated at \$475 million, which would include a new wharf, upland preparation, storage facilities, and local dredging.



Rendering of example turbine integration facility in Port of Coos Bay
Coos Bay Offshore Wind Port Infrastructure Study, Mott MacDonald, 2022

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