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Offshore Wind Development in the US –
and Opportunities for the Gulf Coast

Presented by
Jim Lanard



Jim Lanard, CEO
Magellan Wind
Philadelphia, PA

JLanard@MagellanWind.com

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Growth of the Global Offshore Wind Industry

- 1991: First offshore wind (OSW) farm – 11 450 kW turbines (Denmark)
- 2000: First large-scale OSW farm – 20 2 MW turbines (Denmark)
- 2009: First full-scale floating turbine – one 2.3 MW turbine (Norway)
- 2016: First (**still only**) US OSW farm – five 6 MW turbines (RI)
- 2017: First multi-array floating wind farm – five 6 MW turbines (Scotland)
- 2018: 18.5 GW at 105 OSW farms in 11 European countries (4,543 turbines)
- 2023: 60 GW projected by GWEC
- 2040: 300 GW projected by IEA

Current prototype size rapidly increasing

- Turbine capacity: 11-14 MW
- Hub height: 125 to 140 m
- Blades: 100-107 m
- Rotor diameter: 193-220 m

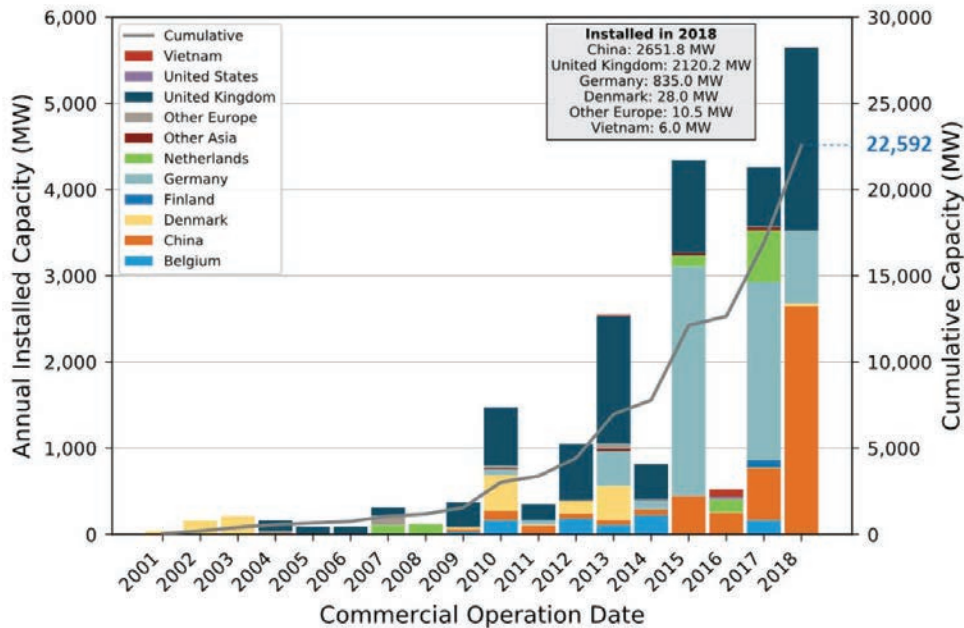


Credits: Block Island Wind Farm (Ørsted) and Hywind Scotland (Equinor)

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Global Offshore Wind Capacity to 2018: Annual Growth (left) and Cumulative (right)

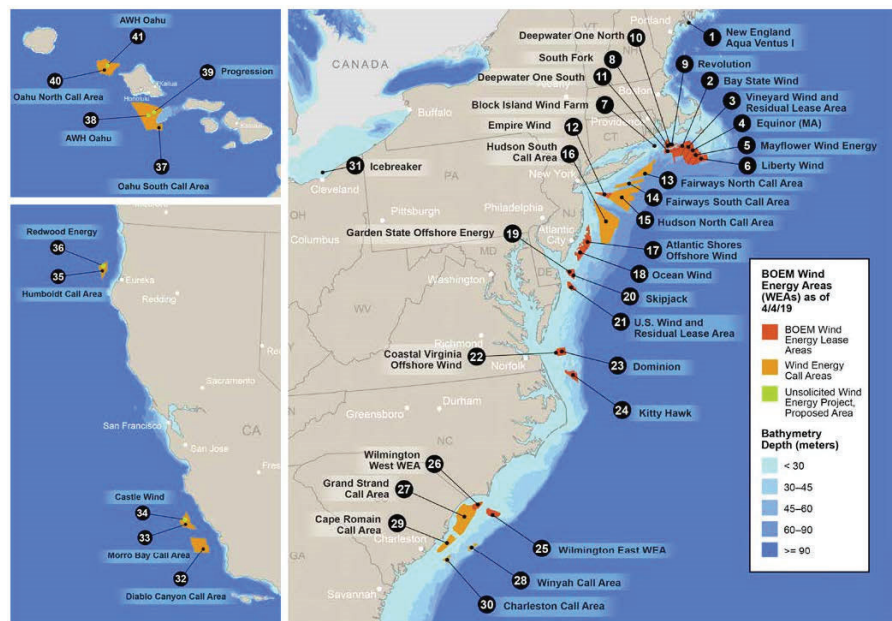


Source: US DOE 2018 Offshore Wind Technologies Market Report (Aug. 2019)

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US Wind Energy Lease Areas and Candidate Lease Areas



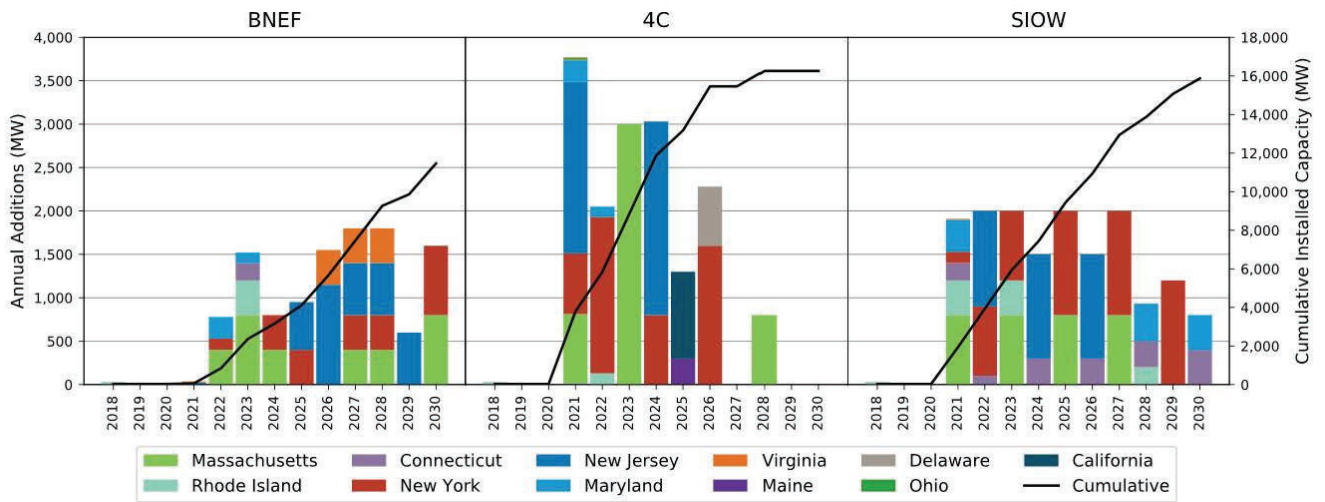
Source: US DOE 2018 Offshore Wind Technologies Market Report (Aug. 2019)

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Projected Additions to US Offshore Wind Capacity

Annually and Cumulatively – 2018-2030



Source: US DOE 2018 Offshore Wind Technologies Market Report (Aug. 2019)

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East Coast State Goals for OSW: 25,930 MW by 2035

| State | Goal (MW) | Year |
|---------------|-----------|------|
| Connecticut | 2,000 | 2030 |
| Maryland | 1,200 | 2030 |
| Massachusetts | 3,200 | 2035 |
| New Jersey | 7,500 | 2035 |
| New York | 9,000 | 2035 |
| Rhode Island | 430 | 2023 |
| Virginia | 2,600 | 2026 |



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