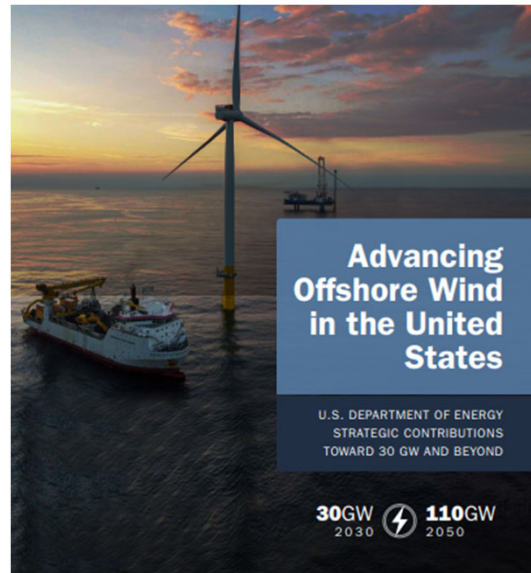




U.S. DEPARTMENT OF
ENERGY

DOE-Wide Offshore Wind Strategy

Joy Page
Wind Energy Technologies Office



OCEAN CLIMATE ACTION PLAN

A REPORT BY THE OCEAN POLICY COMMITTEE
MARCH 2023






- Provide 40% of the overall benefits of certain Federal investments, including climate change investments, to disadvantaged communities that have been historically marginalized, underserved, and overburdened by pollution;¹⁴
- Deploy 30 gigawatts (GW) of energy from offshore wind by 2030;¹⁵
- Deploy 15 GW of energy from floating offshore wind platforms by 2035;¹⁶
- Conserve at least 30% of U.S. lands and waters by 2030;¹⁷
- Identify opportunities for scaling up nature-based solutions to address climate change, strengthen communities, and support local economies;¹⁸ and
- Achieve, working with countries in the International Maritime Organization, zero greenhouse gas emissions from international shipping by no later than 2050.¹⁹

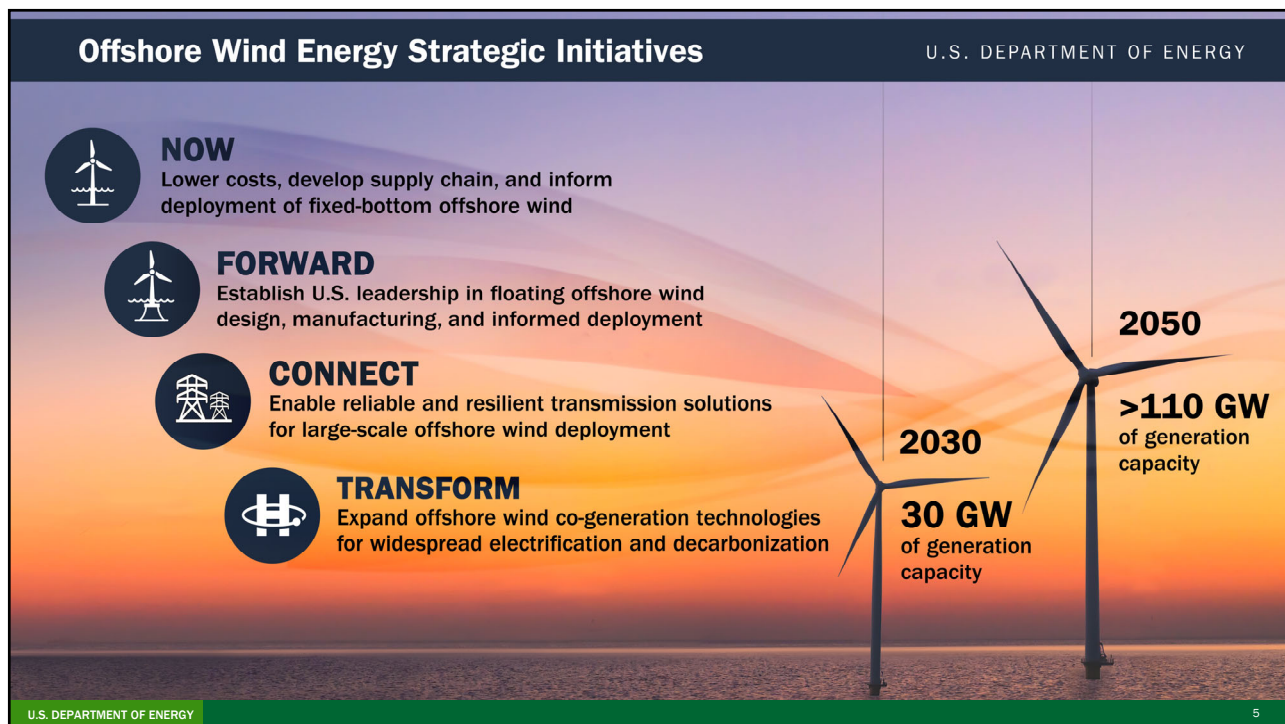
Setting Course for Accelerating Offshore Wind

US Department of Energy (DOE) Offshore Wind Strategy

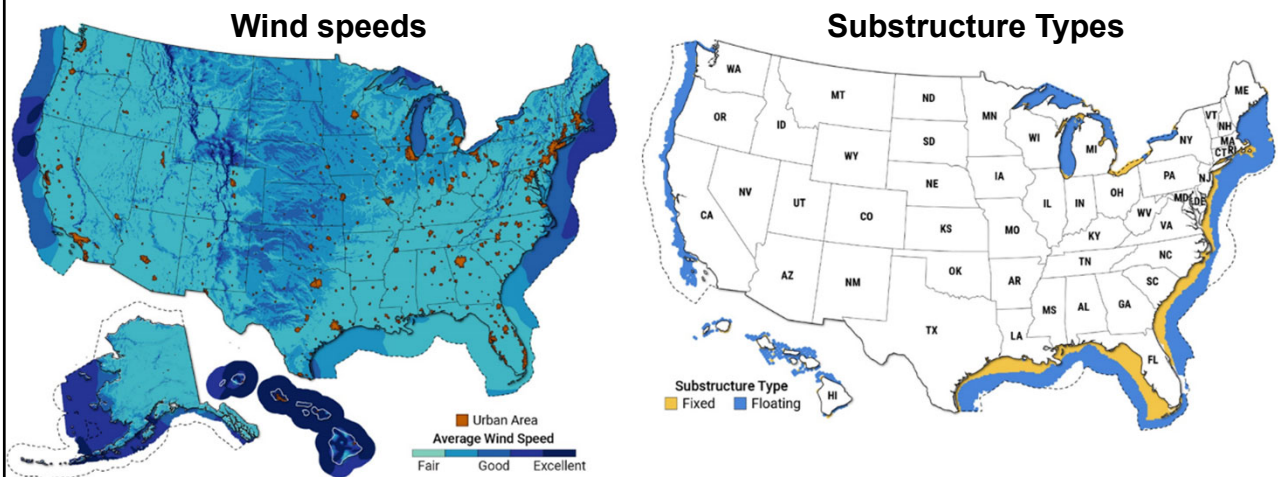
Charts DOE **transformative science and technology, demonstration, and deployment** actions to meet the target of 30 gigawatts (GW) of offshore wind by 2030 and set the nation on a path to 110 gigawatts (GW) and more by 2050.

<https://www.energy.gov/sites/default/files/2023-03/advancing-offshore-wind-energy-highlights.pdf>

| Vision | A future in which offshore wind is a critical part of the nation's decarbonized energy sector and climate solution. A future in which offshore wind promotes: |
|---|--|
| Economic  | <ul style="list-style-type: none"> ▪ Cost-competitive generation and a high-value energy option ▪ Lasting, good paying, and meaningful employment ▪ The global export of components and services ▪ U.S. leadership in design, manufacturing, and deployment of floating offshore wind |
| Reliable  | <ul style="list-style-type: none"> ▪ Utility-scale power production in proximity to coastal load centers ▪ Resilient and reliable transmission infrastructure ▪ Carbon-free production of alternative fuels and energy storage systems |
| Sustainable, Just, & Timely  | <ul style="list-style-type: none"> ▪ Reductions in greenhouse gas emissions, air pollution, and water consumption ▪ Development that avoids, minimizes, and mitigates impacts on living marine resources and habitats ▪ Design for circular economy practices that use recyclable materials ▪ Financial and employment opportunities for communities ▪ Maximized ocean co-use that considers other economic and environmental needs, including fisheries and tribal equities ▪ Coordinated and efficient permitting and expanded leasing opportunities |



A 4-TW and High-Yield Resource Close to Coastal Load Centers






Data sources: NREL 2022 (left); Adapted from Beiter et al. 2017 (right)

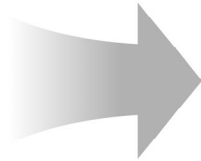
Floating Offshore Wind Shot Incorporates DOE Strategic Initiatives

The *Floating Offshore Wind Shot™* will drive U.S. leadership in floating offshore wind design, manufacturing, and deployment to decarbonize our economy and revitalize our coastal economies

U.S. Department of Energy
Offshore Wind Energy Strategic Initiatives



-  **FORWARD**
Floating offshore wind
-  **CONNECT**
Floating transmission
-  **TRANSFORM**
Floating co-generation



>70%
Cost Reduction



Achieved by
2035



BOEM also announced an associated deployment goal of 15GW floating offshore wind by 2035

SEPTEMBER 15, 2022

FACT SHEET: Biden-Harris Administration Announces New Actions to Expand U.S. Offshore Wind Energy



[BRIEFING ROOM](#) | [STATEMENTS AND RELEASES](#)

Departments of Energy, Interior, Commerce, and Transportation Launch Initiatives on Floating Offshore Wind to Deploy 15 GW, Power 5 Million Homes, and Lower Costs 70% by 2035

*70% cost reduction to \$45 per megawatt hour (MWh).

Key Needs for Floating Offshore Wind Development



Cost Reductions

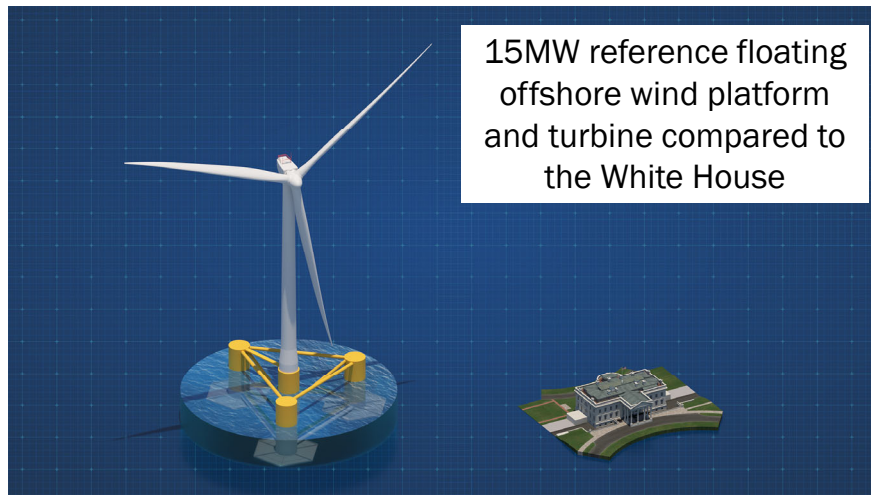
Expanded, Just, and Sustainable Deployment

Domestic Supply Chains, Including Ports

Transmission Development

Co-Generation Applications

Scale of Platforms



Source: NREL