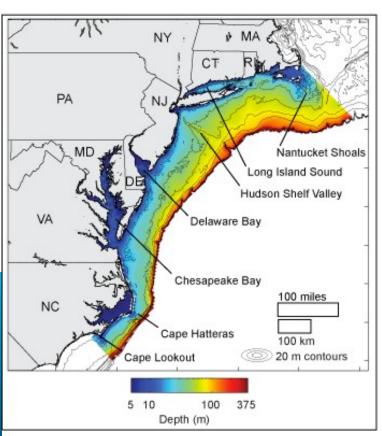
Offshore Wind Policy Considerations in Industry and Port Development

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Estimated policy impacts > 29 years Starting in 2020?



2 years of construction

25 years of operation

Policy Elements =
Technology +
Science +
Stakeholder
Involvement
Economics + Costs

Slide adapted from Offshore Wind Energy Class. University of DE

2 years of decommissioning

Stakeholder Engagement

Opportunities & Conundrums

Link between Government Policies & Business Decisions

- State RPSs & competitive RFPs are major steps forward
- > RI Ocean Special Area Management Plan (SAMP) success story
- > BOEM --- State task forces, NEPA & permit processes for leases
 - Building the scientific knowledge base
- > DOE --- Technology R&D & demonstrations

❖ Port Development Requirements:

- ❖ CAPEX for infrastructure needs = Business decisions, lease fees
- Models? New Bedford, Esbjerg, Bremerhaven
- Where are the Atlantic open waterfront sites?
 - > Laydown areas, proximity, draft, bridges
- Complications: contaminated soils, dredging, competing interests of ports, environmental justice

Is offshore market on the same path as

land-based wind industry?

- Imported EU technology for decades
- Inconsistent fed/state climate policies
- High hurdles without top-down (federal) policies & in-state RPS goals
- Connect the dots with broader regional perspectives
- Need champions & regional leaders:
 - Realizing economic benefits
 - Applying technology innovations
 - Training maritime workforce
 - Addressing community concerns



https://www.energy.gov/eere/wind/downloads/ 2016-offshore-wind-technologies-market-report