

Maryland Offshore Wind Grant Programs – FY 2018

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Agenda

- Overview of US Industry Developments
- Overview of Maryland Projects
- OSW Business Development Grant Program
- OSW Workforce Development Grant Program
- Similar State Programs
- Questions and Answers

Block Island Wind Farm

The first offshore wind farm in the United States consists of five GE-Haliade 150-6MW turbines off Block Island, Rhode Island.



OSW Lease Areas

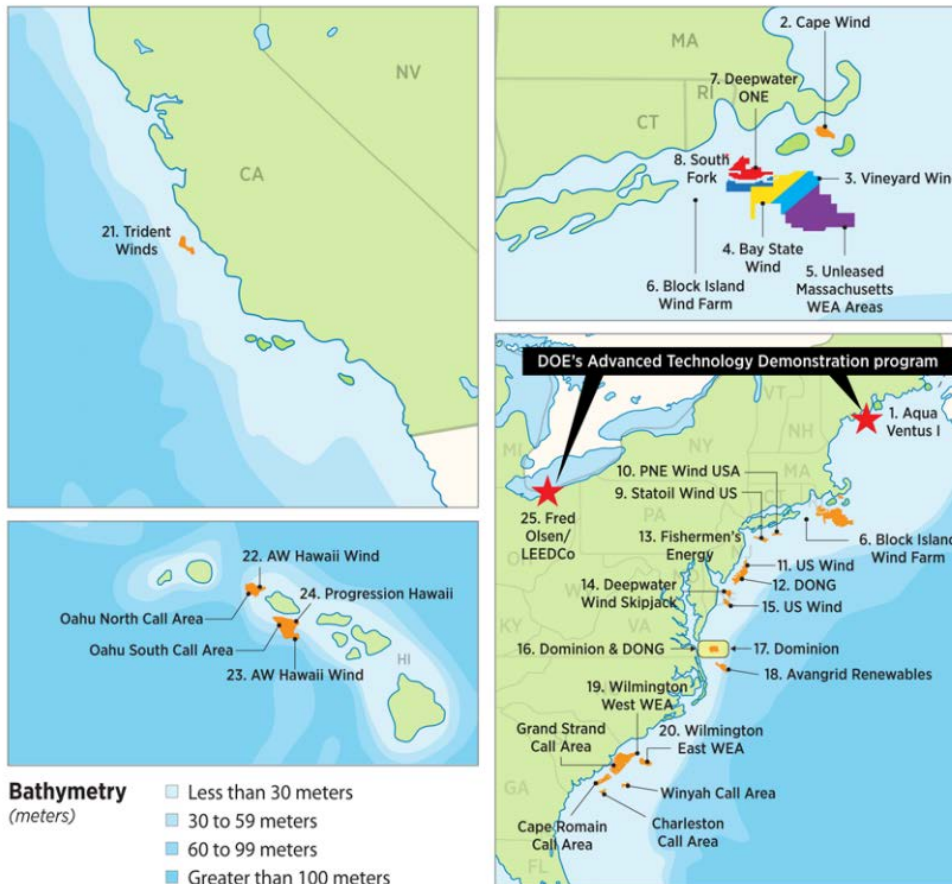


Figure ES-1. U.S. offshore wind projects

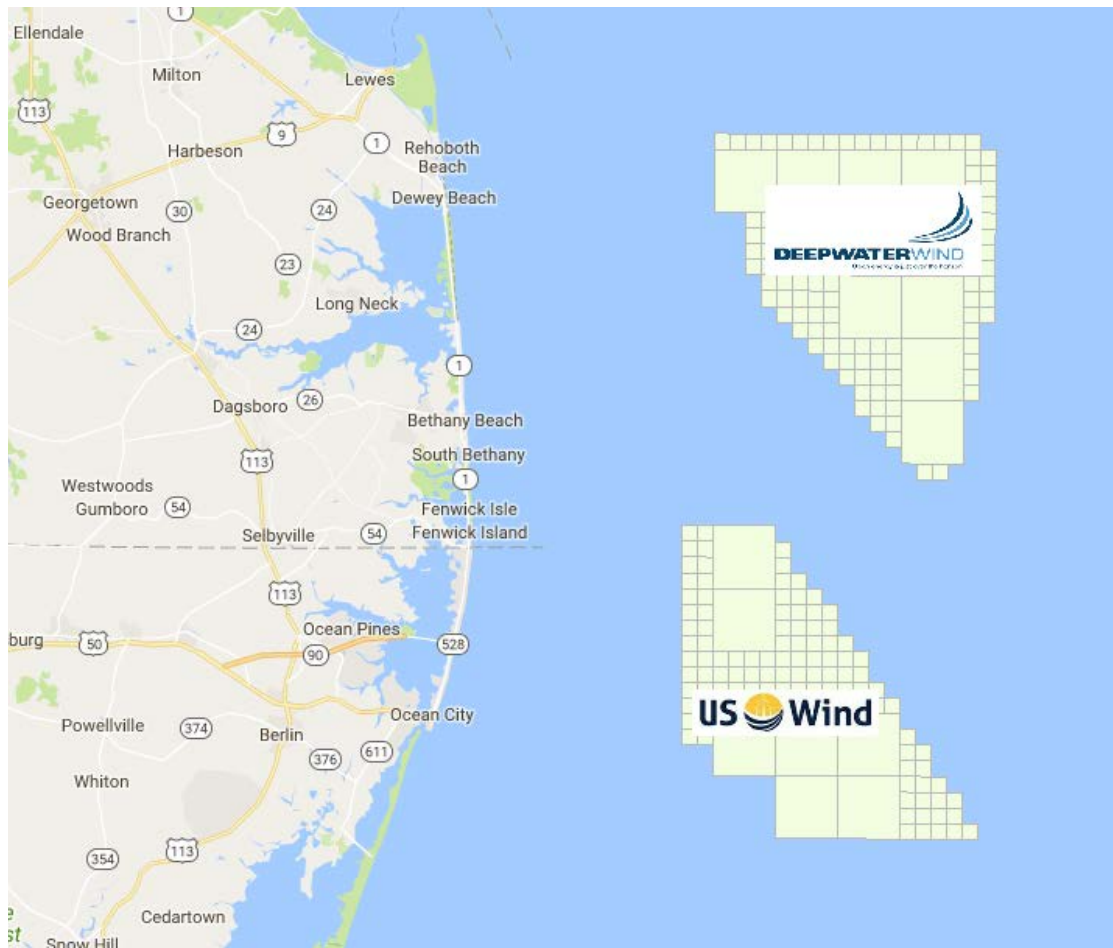
Source: NREL

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Delmarva Lease Areas



Maryland Projects

Skipjack (Deepwater Wind)

- 120 MW
- Fifteen 8 MW turbines
- 19 miles from MD
- \$720 million cost estimate
- Connects to Ocean City, Maryland
- Scheduled for November 2022 completion

US Wind

- 248 MW
- Forty-one 6 MW turbines or Sixty-two 4 MW turbines
- 17 miles from MD
- \$1.4 Billion cost estimate
- Connects to Indian River, Delaware
- Scheduled for January 2020 completion

Approval Conditions

Skipjack (Deepwater Wind)

- Must spend 34% of total costs in Maryland
- \$25 million for steel fabrication facility
- \$13.2 million for port infrastructure upgrades
- \$6 million to the OSWBDF
- 913 dev/construction jobs
- 484 O&M jobs
- Minority participation

US Wind

- Must spend 19% of total costs in Maryland
- \$51 million for steel fabrication facility
- \$26.4 million for port infrastructure upgrades
- \$6 million to the OSWBDF
- 1,298 dev/construction jobs
- 2,282 O&M jobs
- Minority participation

OSW Business Development Program

- \$600,000 Budget
- AOI 1 – Market Entry Assistance (\$200,000)
- AOI 2 – Capital Expenditures and Facilities Upgrades (\$400,000)
- Competitive Program
- Open to emerging business, including minority owned emerging business



Emerging Business

- Maryland Offshore Wind Energy Act of 2013 defines an “Emerging Business” as:
 - A business that is at least 51% owned and controlled by an individual or individuals...
 - Who are certified to have a personal net worth that does not exceed \$6,500,000 as adjusted each year for inflation

Minority Owned



- Maryland Offshore Wind Energy Act of 2013 defines a “Minority” as:
 - An individual who is a member of any of the groups listed in § 14–301(J)(1)(I) of the State Finance and Procurement Article

AOI 1 – Market Entry



- Grant funds are to defray costs required for bidding on a specific, identified business opportunity in the global offshore wind supply chain
- Grant funds are intended for administrative costs
- Travel is permissible if shown necessary
- Grant awards will cover 100 percent of specified administrative expenses up to \$25,000

AOI 2 - CAPEX



- Grant funds can be used to offset facilities and/or capital equipment acquisition costs
- Applicants must provide a cost share of at least 50 percent for AOI 2
- Applicants who were awarded a grant through AOI 1 in a previous fiscal year may apply for AOI 2

Industries Impacted



- Design & Engineering
- Siting
- Surveys
- Environmental
- Permitting
- Manufacturing
- Construction
- Transportation
- Ports
- Storage
- Maritime
- Operations & Maintenance
- Electrical
- Computer Systems
- Cybersecurity
- Administration
- Legal
- Tax

OSW Workforce Development Program

- Program Budget - \$400,000
- Program Type – Competitive
- Eligibility:
 - Emerging business, including minority owned emerging business,
 - Non-profits
 - Governmental Organizations



Program Overview



- Provide funding for a new workforce training center or an existing training center expanding into the offshore wind industry
- Must provide education of a technical skill(s) and safety standards for construction, installation, and operations & maintenance of an offshore wind energy project
- Priority for training centers for skilled trades required for the **manufacturing/construction** of an offshore wind energy project

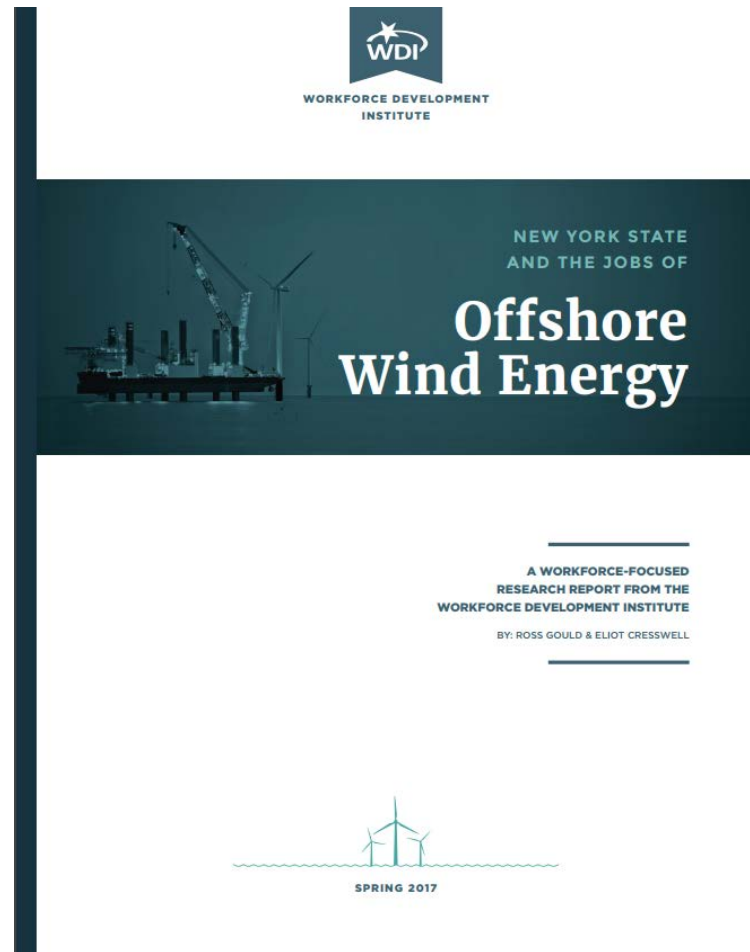
Technical Skills

- Carpentry
- Composites/advanced materials
- Data analysis
- Diving
- Energy resource management
- Experience with power plant, renewable energy, and electrical grid projects
- Experience with wind power plants, land-based or offshore
- Hydraulics
- Logistics
- Machining
- Proficiency with office productivity software
- Rigging and material handling
- Understanding of electromechanical systems
- Welding



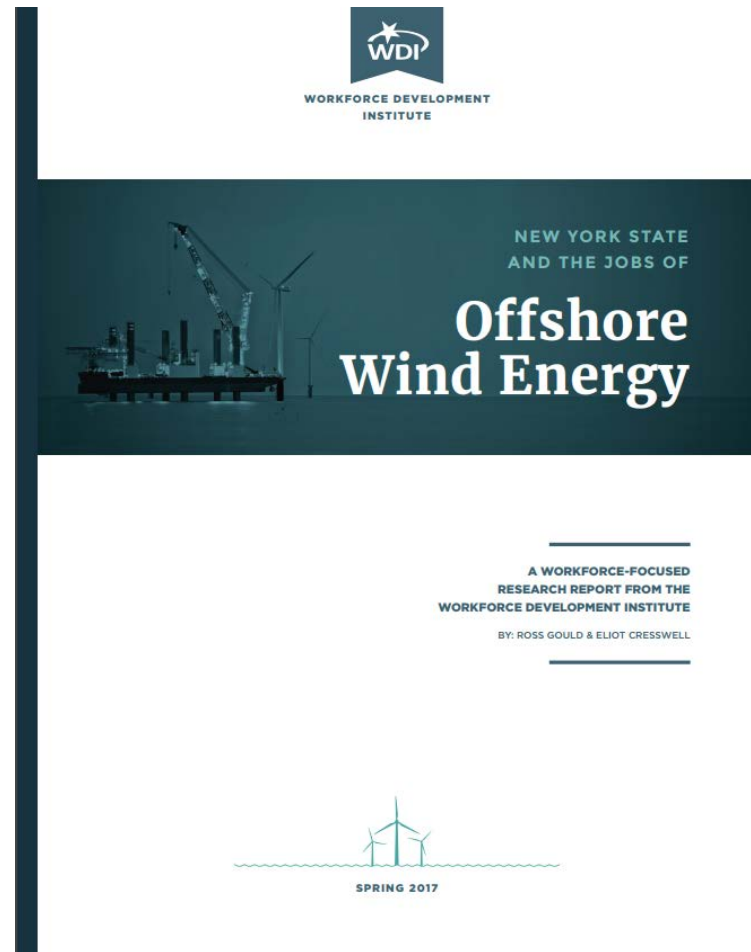
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Safety & Offshore Skills

- Advanced Rescue
- Experience with vessel fleet coordination
- Familiarity with offshore safety standards and USCG protocols
- Fire Awareness/Fire fighting
- First Aid
- Marine Safety Training
- Regional Compliance/OSHA 10
- Saturation Diving
- Sea Survival
- Strong understanding of safety and health standards
- Weather prediction/meteorology



Program Documents



- OSW Business Development Grant Program
 - Application
 - Funding Opportunity Announcement
 - (MUST READ)
 - <http://energy.maryland.gov/Pages/Info/renewable/offshorewindbusinessdevelopment.aspx>
- OSW Workforce Development Grant Program
 - Application
 - Funding Opportunity Announcement
 - (MUST READ)
 - <http://energy.maryland.gov/Pages/Info/renewable/offshorewindworkforce.aspx>

Application Checklist



- A completed, signed, and dated application form
- A project narrative
- A Certificate of Status from the Maryland State Department of Assessments and Taxation
- Additional documentation demonstrating the business is an emerging business
- A financial pro-forma
- All UL listing(s) and/or any other nationally recognized testing laboratory certification(s) for equipment
- Site map of proposed location(s)
- Letter(s) of Commitment from project partner or lending institution
- Letter(s) of Support from all other project partners
- Letter(s) of Commitment from local businesses pledging to hire trainee graduates **(WORFORCE PROGRAM ONLY)**



Submission

Please Submit Application Packages by
12:00 pm (Noon), Friday, September 1, 2017 to:

wind.me@maryland.gov (Adobe PDF Format)

OR

Maryland Energy Administration
Attn: Wind Program
1800 Washington Boulevard, Suite 755
Baltimore, MD 21230

**APPLICATIONS WILL NOT BE ACCEPTED AFTER
12:00 PM (NOON), FRIDAY, SEPTEMBER 1, 2017**



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Program Timelines

- **April 2017** - Fiscal Year 2018 programs announced
- **September 1, 2017** - Applications due by 12:00 pm to wind.mea@maryland.gov
- **October 2017** - Applicants deemed eligible for further consideration may be invited for in-person presentations
- **December 2017** - Target for grant award announcements
- **February 2018** - Target date for having grant agreements signed (projects begin)

Other State Programs

- Maryland Department of Commerce
 - Programs for businesses
 - <http://commerce.maryland.gov>



- Maryland Technology Development Corporation (TEDCO)

- Programs for start-ups and innovative technology
- <http://tedco.md/>



Other State Programs

- Department of Labor, Licensing, and Regulation (DLLR)
 - Programs for employment and workforce development
 - <http://www.dllr.state.md.us>



Maryland EARN



- Employment Advancement Right Now
 - Website - <http://www.dlr.state.md.us/earn/>
- In January, 2017 Governor Hogan announced his Environmental Agenda
 - “The first of these initiatives is a \$3 million targeted investment in Maryland’s EARN Program to train 1,500 workers for jobs in the solar, wind, hydroelectric, and other green industries. This proposal would be Maryland’s first significant investment in workforce training for green jobs.”

Questions? Bueller?



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