

U.S. Department of Energy Offshore Wind Energy Program

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This presentation reviews the status of the global offshore wind industry; the activities of the Department of Energy's (DOE) Wind Energy Technologies Office (WETO) in support of that industry in the United States; and illustrates how the design and fabrication of offshore wind support structures have evolved from the oil and gas industry.

Globally approximately 4,000 large offshore wind turbines have been installed, with a total capacity of approximately 13,000 Megawatts (MW). In 2016 alone, investment total approximately \$24 billion. About 230,000 MW are under development.

In the U.S. there is one operating offshore wind farm but an active pipeline of 15,000 MW under development with strong support from many coastal state governments and international investors.

DOE has facilitated establishment of the offshore wind industry in the U.S. to strengthen domestic manufacturing, regional economic growth, and long term energy infrastructure security. DOE has supported technology innovation and demonstration to lower the cost of energy; facilitated environmental assessment and site characterization; issued the National Offshore Wind Strategy jointly with the Bureau of Ocean Energy Management (BOEM); and acted as an objective source of information for industry use through data analyses and published reports.