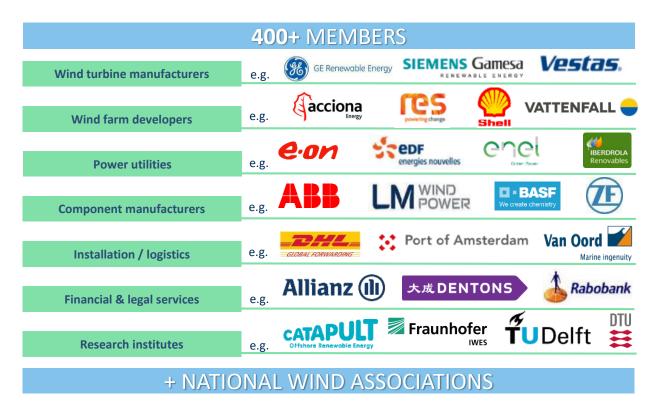
PORTS AT THE SERVICE OF THE WIND INDUSTRY

Mattia Cecchinato, Offshore and Sustainability Analyst



WindEurope: the European Wind Energy Association





Wind energy in Europe

189 GW

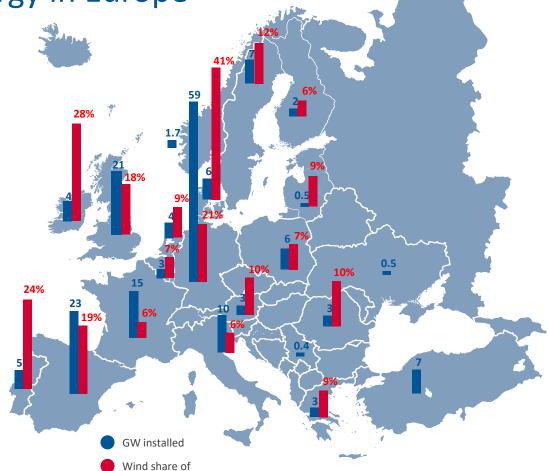
Of which:

18.5 GW

offshore

14%

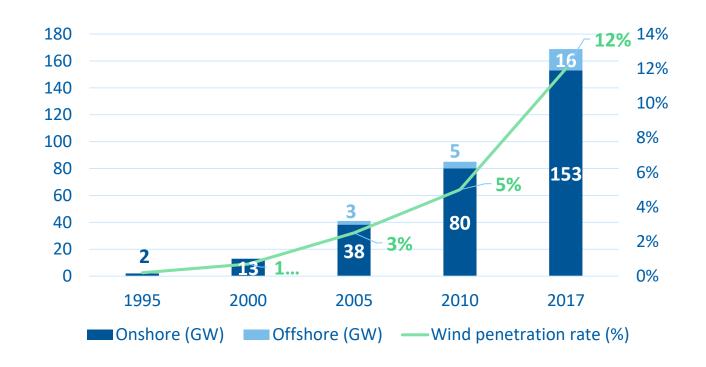
of 2018 EU power demand



demand



Growth of wind energy in Europe



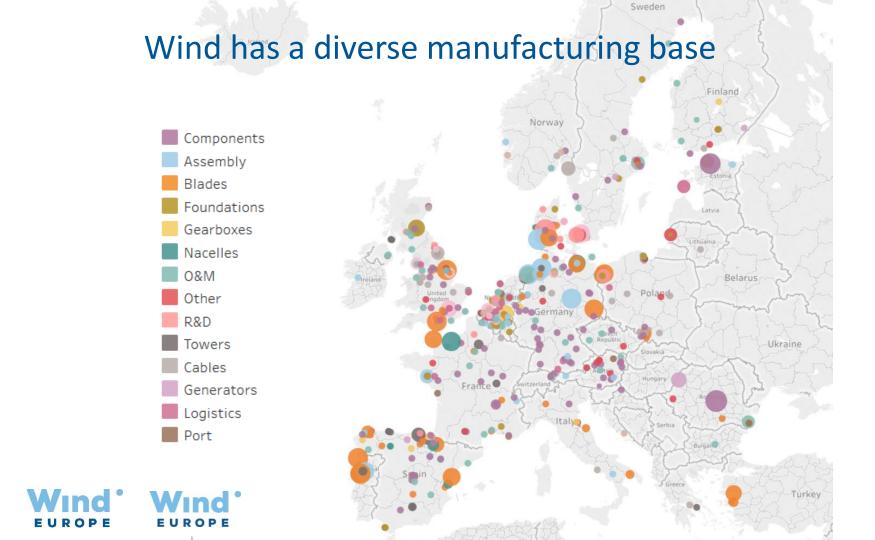


Contribution to EU economy

- 263,000 jobs
- €36bn GDP contribution
- €8bn exported
- €28bn invested
- €5bn fossil fuel savings p.a.

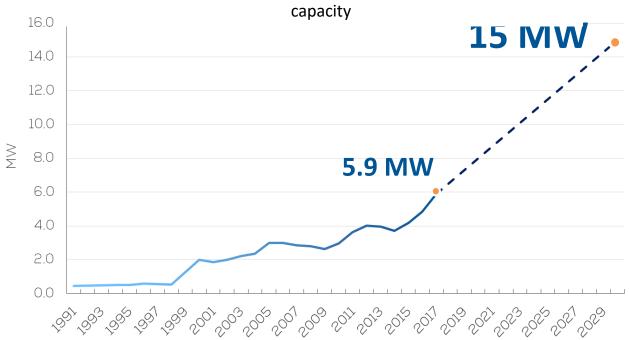






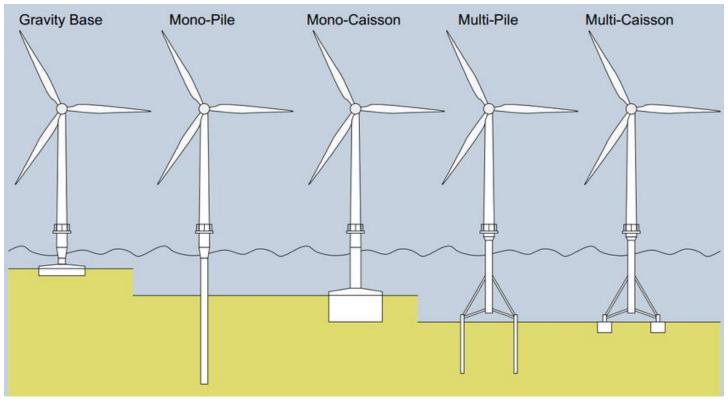
Offshore turbines are getting larger







Bottom fixed foundations







Offshore Wind Ports Platform

- 14 Ports in the platform;
- 4 meetings per year;
- Publication "A statement from the offshore wind ports" (2017);
- Internal report "Ports and port services for offshore wind in **2030**" (2018);
- Infographic launch in Hamburg 2018.









rebo













A VISION FOR EUROPEAN PORTS







2020 28 GW 6,000 turbines



2025 49 GW

播播

8.000 turbines

2030

70 GW 10,000 turbines



Source: WindEurope

PORTS SERVICES IN 2030

BY 2030, PORTS WILL NEED TO ANNUALLY SUPPORT:

O&M



70 GW 10,000 turbines

Installations



7 GW 460 turbines

Repowering



1 GW 70 turbines

Decommissioning



750 MW 600 turbines

Life Extension



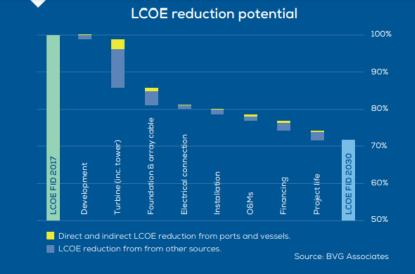
1.5 GW 500 turbines

PORTS' CONTRIBUTION TO LCOE REDUCTION

SAVINGS POTENTIAL FROM 2017 TO 2030

*5.3% 1.8% Direct
Total LCOE reduction 3.5% Indirect

*The 5.3% LCOE saving is equivalent to what would be achieved by a project CAPEX reduction of €185,000/MW of new wind farm capacity.



INVESTMENT REQUIREMENTS

INVESTMENTS IN PORT INFRASTRUCTURE DRIVE COST REDUCTION IN OFFSHORE WIND



Ports will use this money for upgrading, redesigning and adapting existing facilities combined with new infrastructure



These investments would save the equivalent **CAPEX** of **€5.5bn** for 30 GW of new offshore installations.

THANK YOU

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