'GREENNOVATION' MEETS SKILLS ANTICIPATION: POLICY LESSONS FOR MAKING THE GREEN TRANSITION HAPPEN

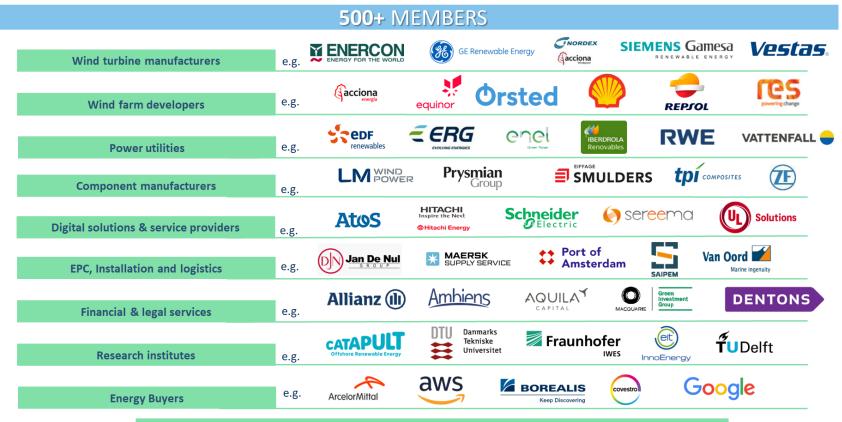
Iván Pineda



windeurope.org

June 2023

Our members make wind energy work



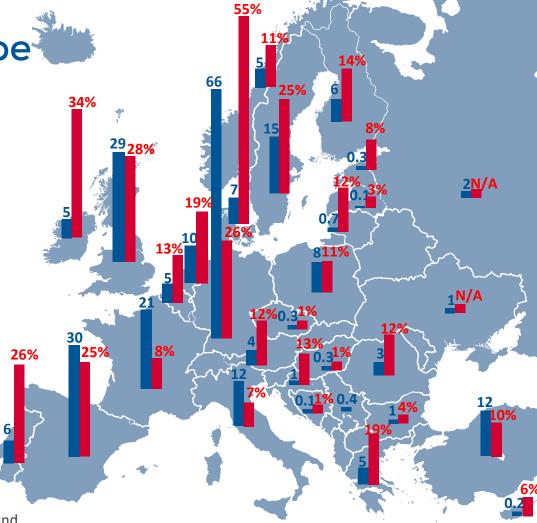
+ NATIONAL WIND ENERGY ASSOCIATIONS

Wind energy in Europe

255 GW

17% of Europe's electricity demand

EUROPE



GW installed

Wind share of electricity demand

Economic benefits of wind energy in Europe

f 1 new turbine

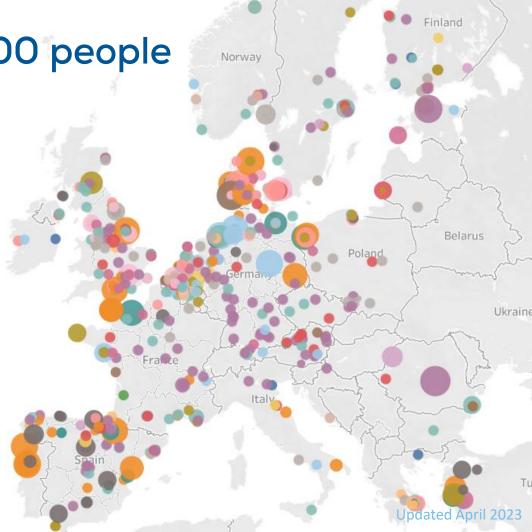
€42bn to Europe's GDP €13m to the economy

Wind '

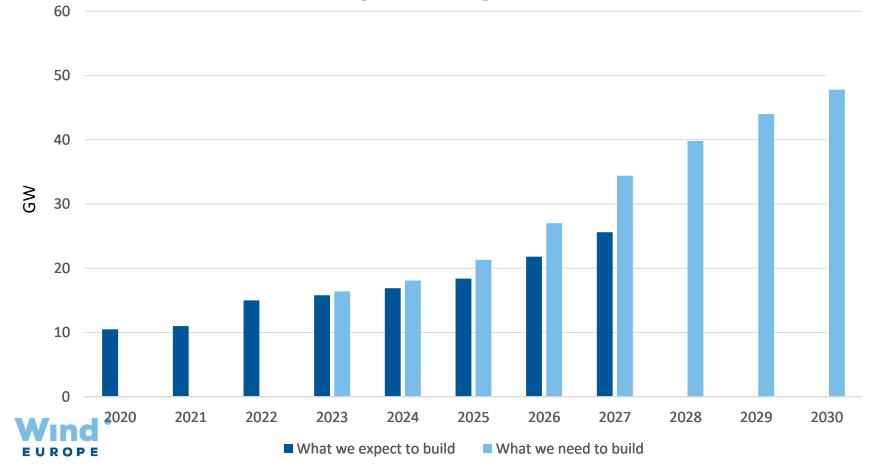
Wind employs 300,000 people



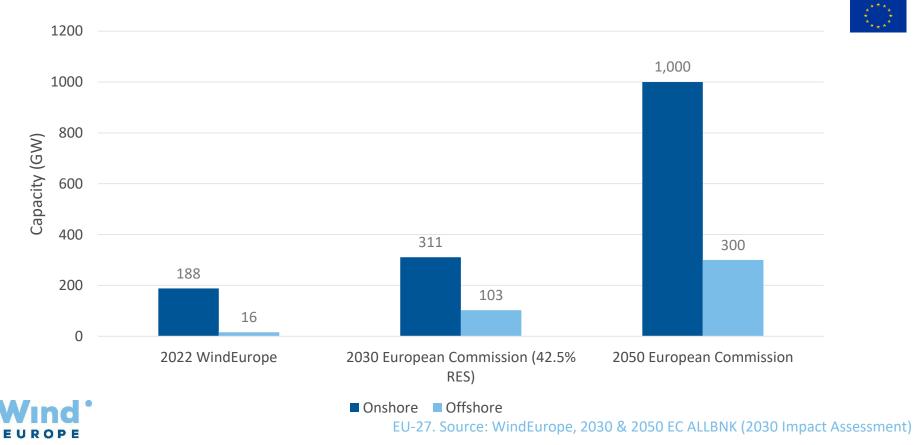
EUROPE



Europe isn't building enough wind



Huge increase in wind capacity coming



Jobs in factories: Rotor Blades

1,000 jobs



Siemens Gamesa facility for the Hornsea Project One UK © Siemens Gamesa Renewable Energy





Coood







Jobs in construction

Jobs in logistics

34.089 2024 - 2024

NEST NEST



£310m investment +1,000 jobs

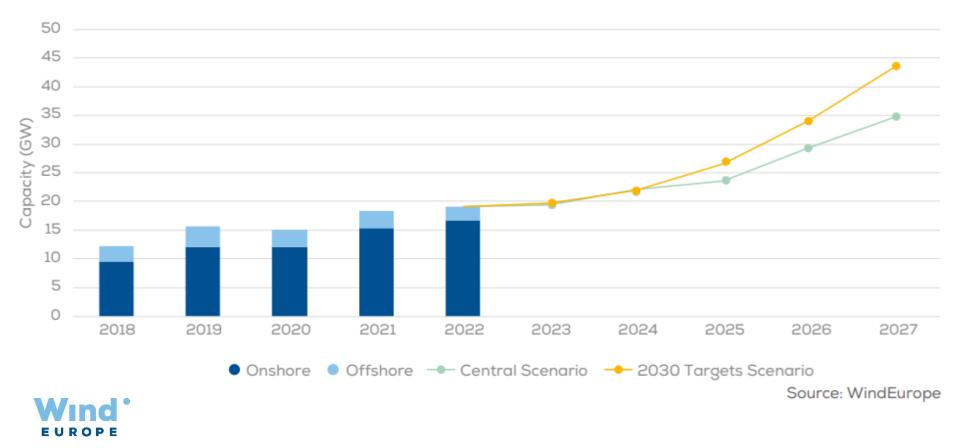


Hull, UK © Siemens Gamesa Renewable Energy

European supply chain

Wind Fécame EUROPE © EDF

Europe must step-up annual installations, fast.

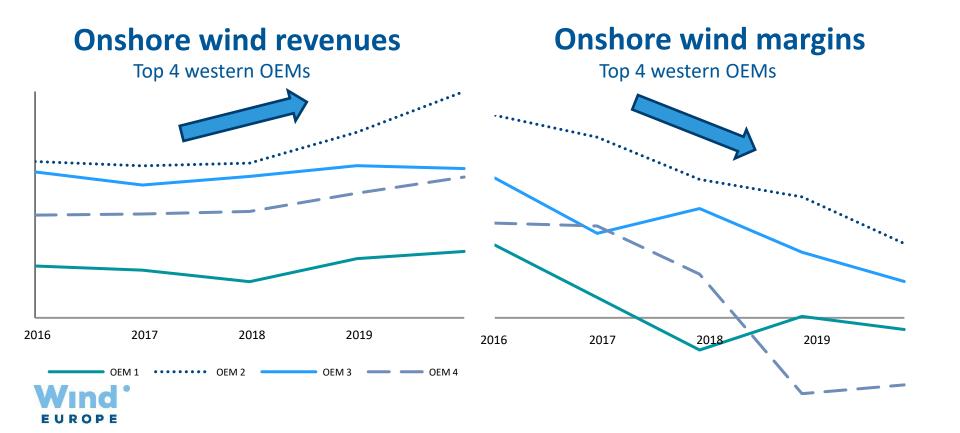


Permitting

	In Renewable Acceleration Areas	Outside Renewable Acceleration Areas
New projects	1y Offshore 2y	2y Offshore 3y
Repowering projects	6 months Offshore 1y	1y Offshore 2y



Supply chain is struggling



Net-zero Industry Act

Support manufacturing in Europe

- Auctions rewarding European content
- Promote Skills needed in Net-Zero Technologies

Speed and simplicity

Re-skilling

RenewAcad-Romania

Working with schools

LET THE WIND BLOW

6 0 1 Nalgosia Bartosik. Philippa Nutrall Jones. Zam Tadeh



ISTRATIONS BY CHANTAL

Co-existence with environment and society

Generating and saving energy together for the benefit of all.

Co-existence with environment and society



218.7 MW



OPERATING BETWEEN 1998-2017

GREECE

- 62 direct permanent locally-based jobs;
- €16.5 million in total benefit from operation;
- €27.7 million total benefit from the special 3% turnover tax; and
- €44.4 million total benefit from construction.



ALL THE WIND FARMS IN SOUTH EVIA ISLAND



Thinks.

Wind E UR OP E

windeurope.org

WindEurope, Rue Belliard 40 1040 Brussels, Belgium

European wind energy generation in 2022

17% of EU + UK electricity demand



225 GW onshore wind capacity 14% onshore wind of EU + UK electricity demand 24% average onshore wind capacity factor*

489 TW/h

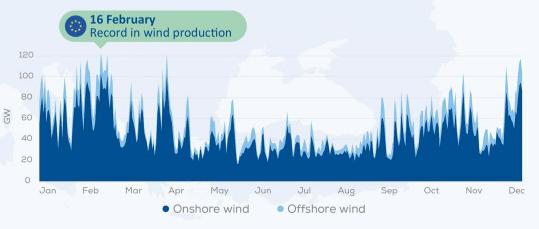
EU + UK wind energy generation



30 GW offshore wind capacity **3%** offshore wind of EU + UK electricity demand **36%** average offshore wind capacity factor*



26%

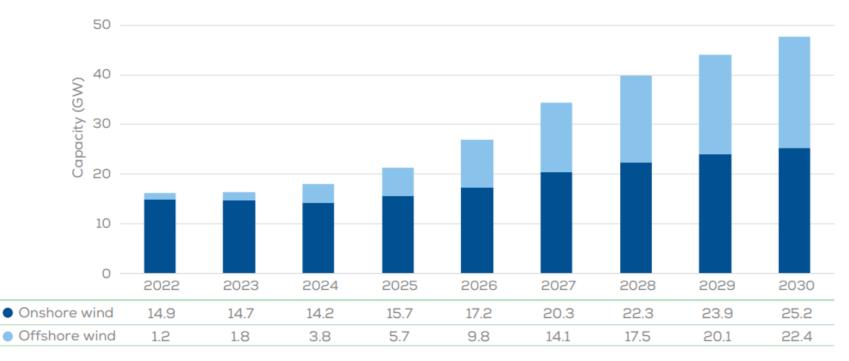


*Capacity factors of entire fleet including old turbines

Build out of wind energy in the EU

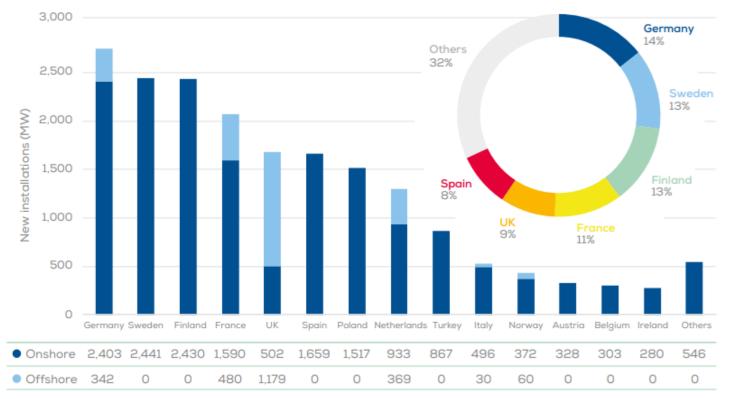
EUROPE

EU - RePowerEU Scenario



Source: WindEurope

Wind energy installations per country



Wind '

Source: WindEurope

ECONOMY AND JOBS

