

Markets & Regulation - Wind in the energy transition

Diletta Zeni

Advisor – Energy & Climate Change

Our members make wind energy work

400+ MEMBERS

Wind turbine manufacturers

e.g.



GE Renewable Energy

SIEMENS Gamesa
RENEWABLE ENERGY

Vestas

Wind farm developers

e.g.



acciona
Energy

res
powering change



VATTENFALL

Power utilities

e.g.

e-on

edf
energies nouvelles

enel
Green Power

IBERDROLA
Renovables

Component manufacturers

e.g.

ABB

LM WIND
POWER

BASF
We create chemistry



Installation / logistics

e.g.

DHL
GLOBAL FORWARDING



Port of Amsterdam

Van Oord
Marine ingenuity

Financial & legal services

e.g.

Allianz

大成 DENTONS



Rabobank

Research institutes

e.g.

CATAPULT
Offshore Renewable Energy

Fraunhofer
IWES

TU Delft

DTU

+ NATIONAL WIND ASSOCIATIONS

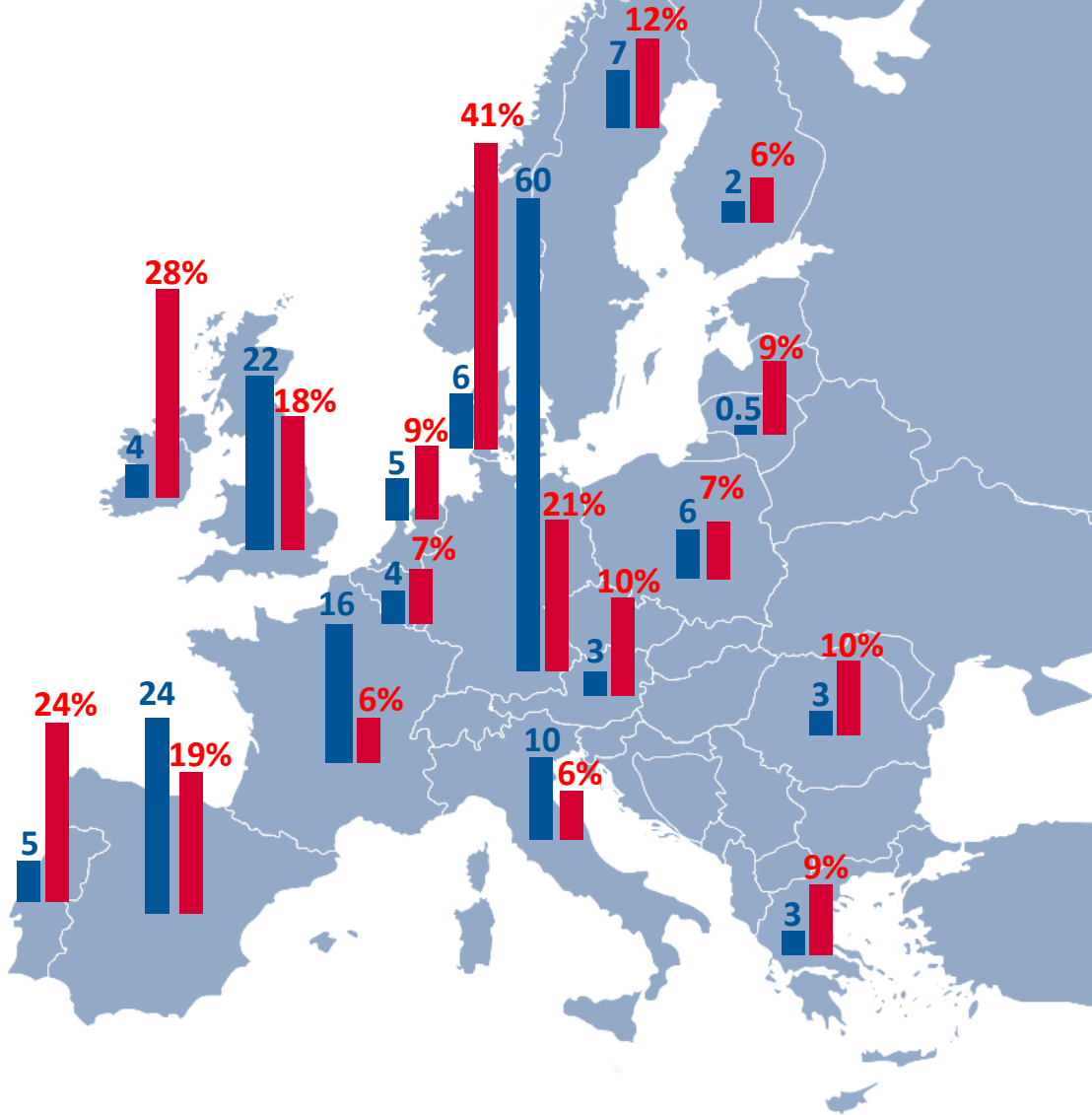
14% of EU power is provided by wind

183 GW

14%

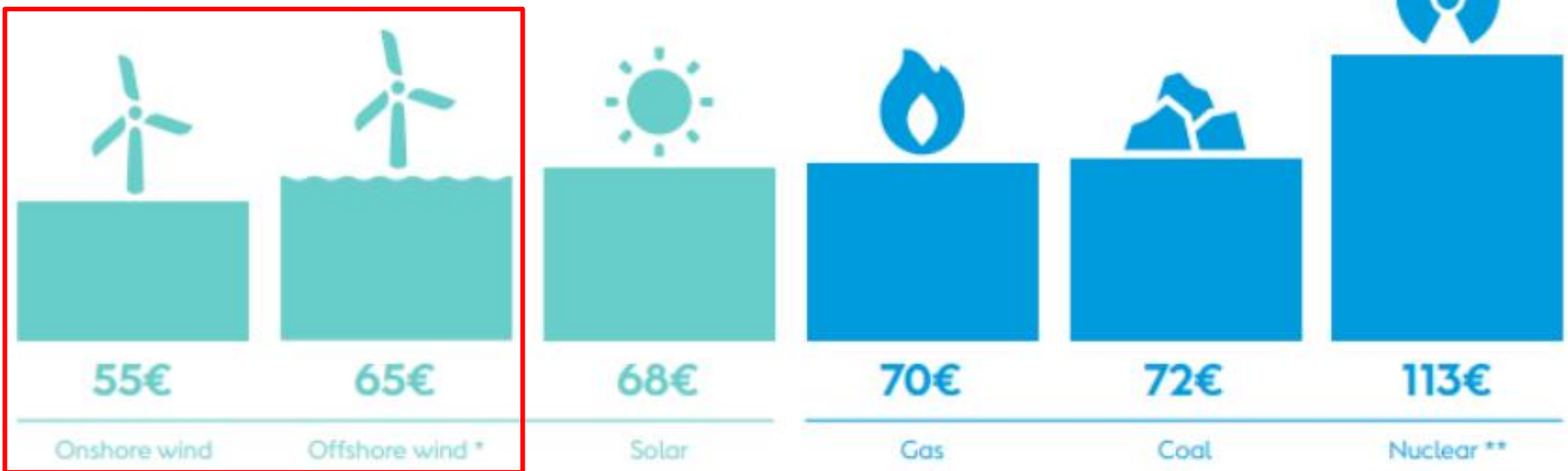
of 2018 EU power demand

● GW installed
● Penetration



Wind is cost-competitive

Levelised cost of electricity/MWh

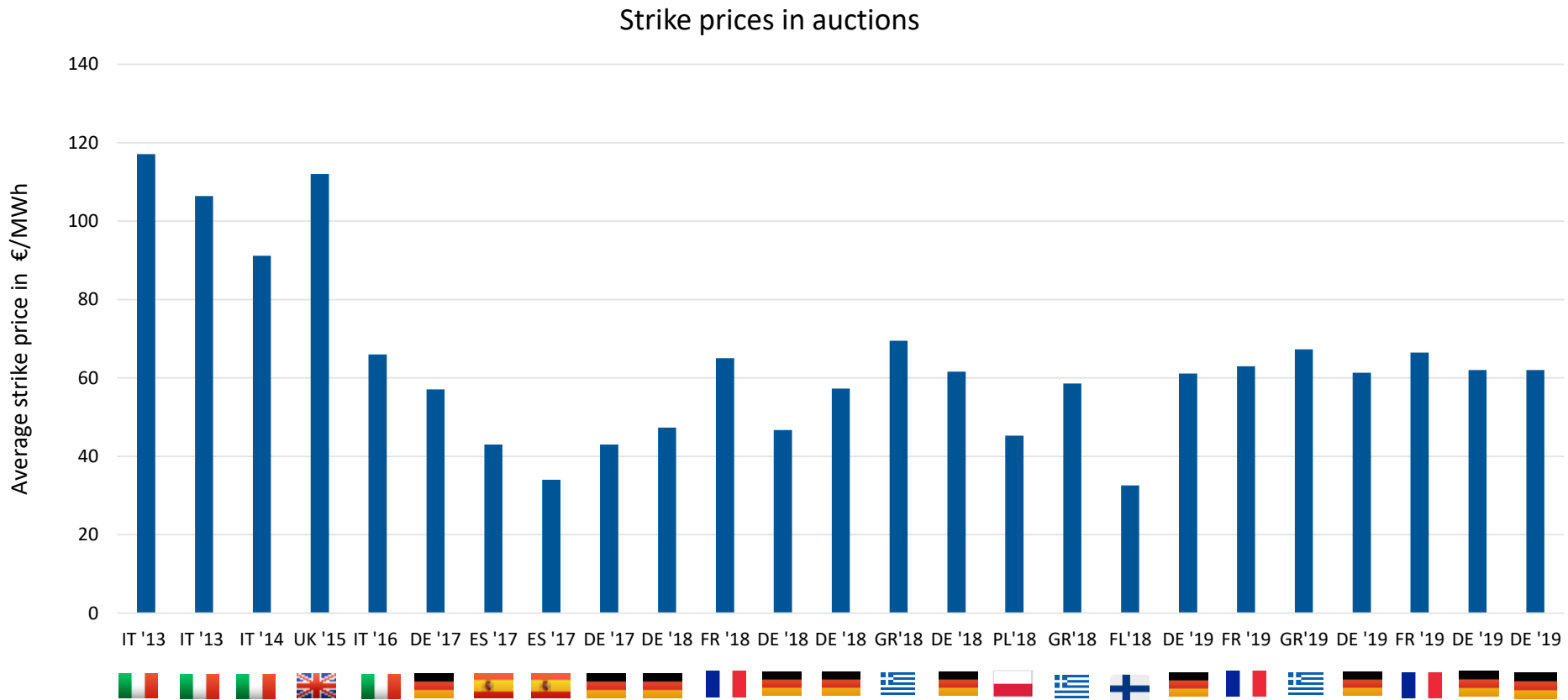


Source: Bloomberg New Finance (2016-prices), Year of FID.

Prices reflect North Western European market conditions, which express a global trend. Specific prices may vary across regions.

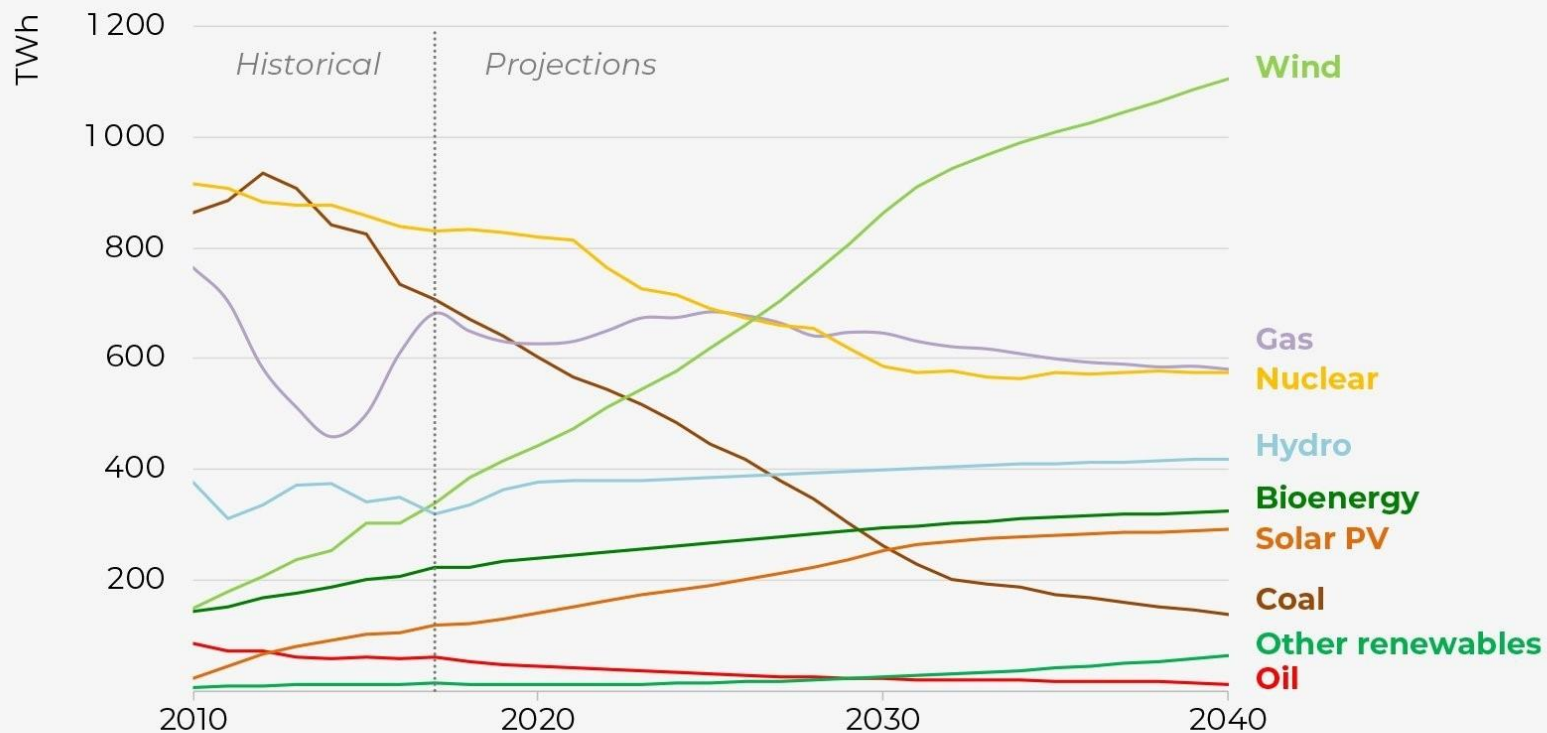
* Offshore: Hornsea 2, UK (cost including transmission) ** Nuclear: Hinkley Point, UK

Cost of onshore wind is decreasing

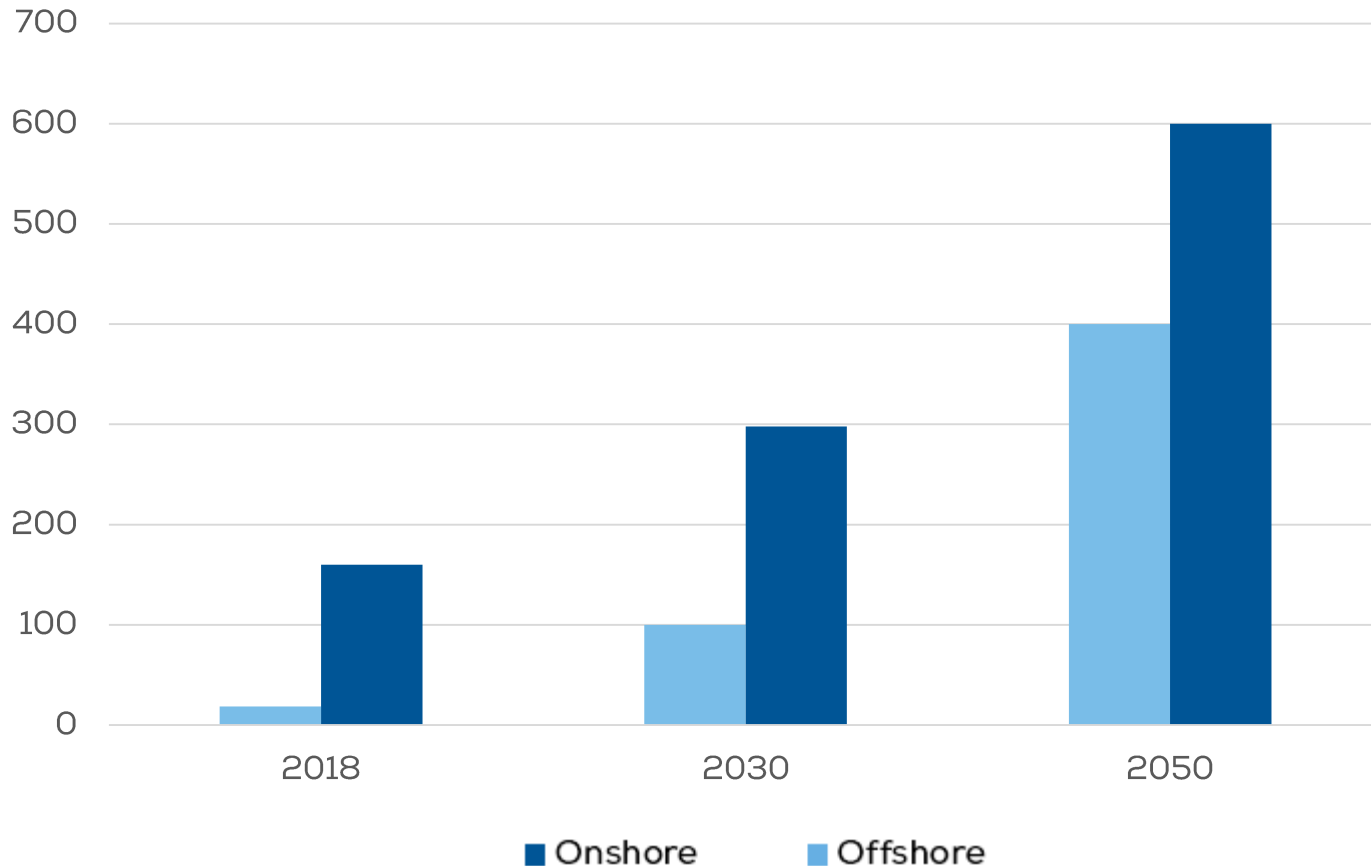


Wind the no. 1 power source in the EU by 2027

Electricity generation by source in the European Union in the NPS, 2010-2040
World Energy Outlook 2018



Onshore wind remains the bulk of Europe's wind capacity



New European Parliament and Commission - 2019-2024



Ursula von der Leyen lors de son discours devant le Parlement européen à Strasbourg le 16 juillet 2019 dpa Picture-Alliance/AFP

Priorities - The European Green Deal

- Enshrine 2050 climate neutrality goal in **European Climate Law**
- **2030 GHG reduction target** up to at least 50%
- Extend the **ETS**
- Set up a new **Just Transition Fund**
- **Blue economy** contributes to decarbonisation
- **EU tax policies** deliver on climate ambition
- Set up **long-term strategy for EU's industrial future**
- A new **EU Climate Pact** installs climate culture in Europe

The EU agrees on 32% renewable target by 2030 after all-night negotiations



Seán Kelly MEP ✓

@SeanKellyMEP



It's 4 in the morning & what's more the dawning & we are happy as deal done on #RED11 . Pleasure to work with such great people @EU_Commission @Europarl_EN @EUCouncil Thanks all @pepeblancoEP @JerzyBuzek @BasEickhout @ClaudeTurmes @tamburrano @MAC_europa

♥ 131 03:21 - 14 Jun 2018

💬 49 people are talking about this



National Energy & Climate Plans



PROJET
de

PLAN NAT
INTEG
ENERGIE-
de
FRA

Janv

ΕΘΝΙΚΟΣ ΕΝΕΡΓΕΙΑΚΟΣ



ΕΘΝΙΚΟ ΣΧΕ

PROPOSTA DI PIANO
NAZIONALE INTEGRATO
PER L'ENERGIA E IL CLIMA

Ministero dello Sviluppo Economico

Ministero dell'Ambiente e della Tutela del Territorio e del Mare

Ministero delle Infrastrutture e dei Trasporti



РЕПУБЛИКА БЪЛГАРИЯ
Министерство на енергетиката

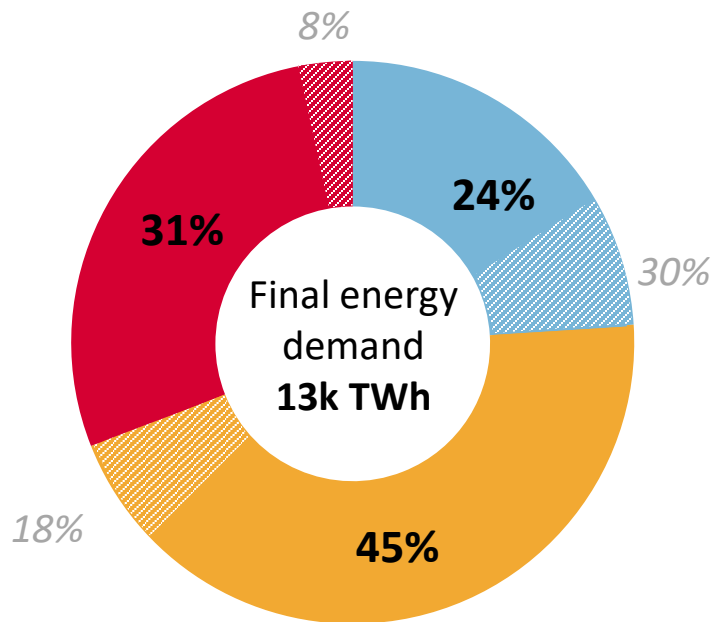
ПРОЕКТ НА ИНТЕГРИРАН ПЛАН В
ОБЛАСТТА НА ЕΝΕΡΓΕΤΙΚΑΤΑ И ΚΛΙΜΑΤΑ
НА РЕПУБЛИКА БЪЛГАРИЯ

Visibility on renewable auctions

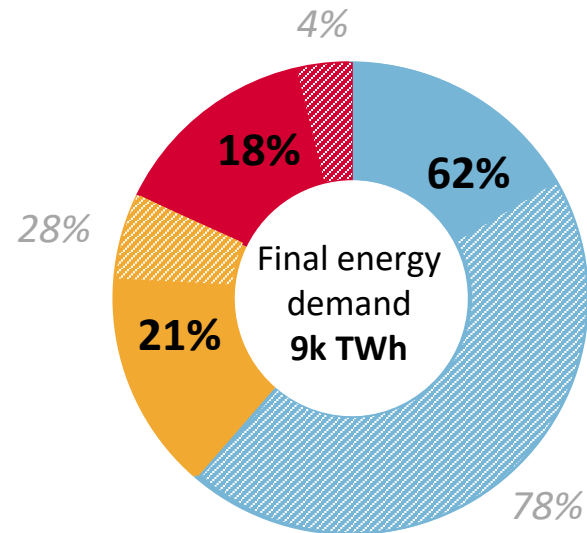


Accelerate RES-based electrification

2018



2050



■ Power ■ Heat ■ Transport

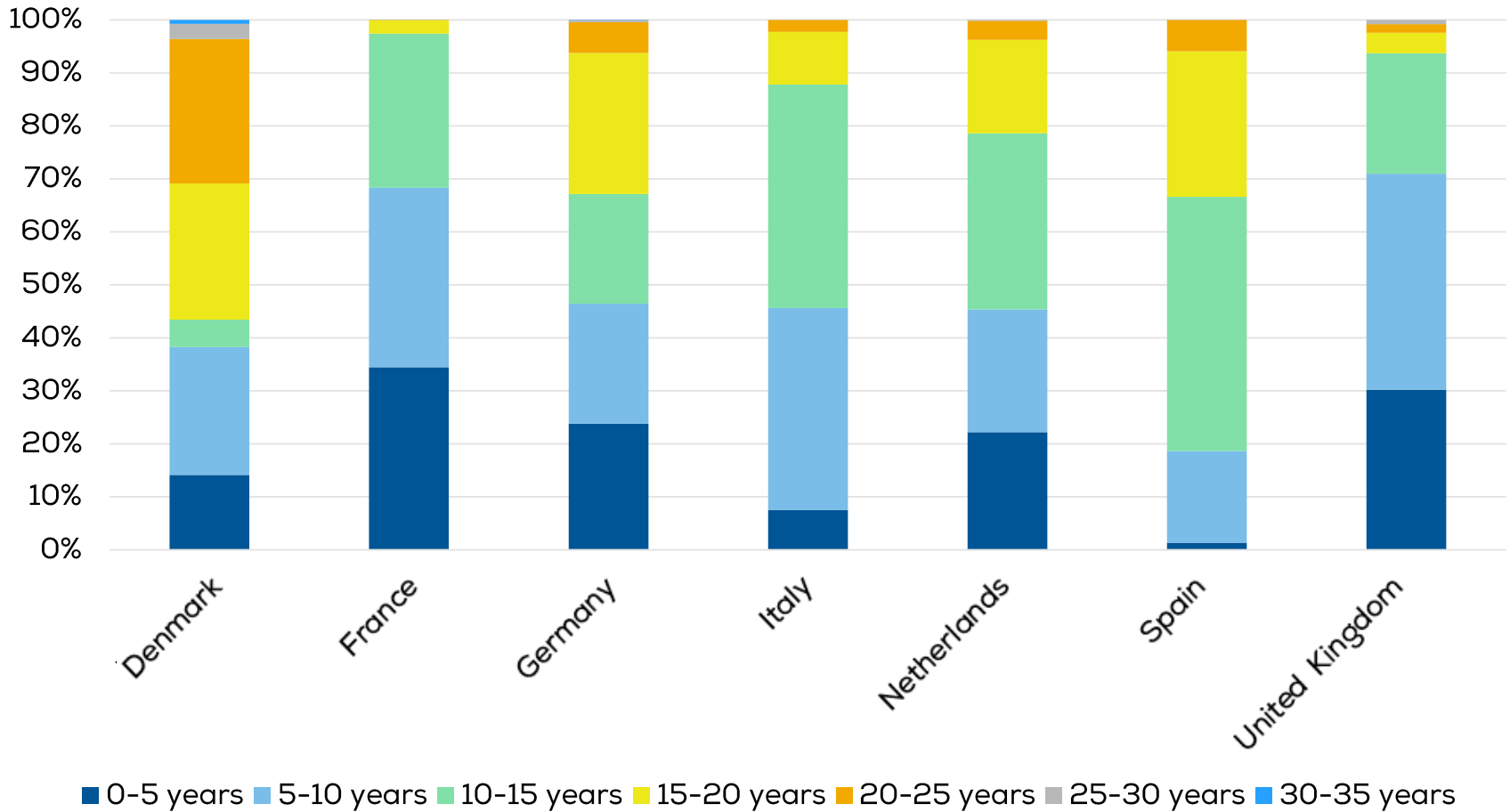
▨ Share of renewables in the sector

Grids and System Integration



Extend and Repower

Ageing onshore fleet in Europe



Get the permitting right



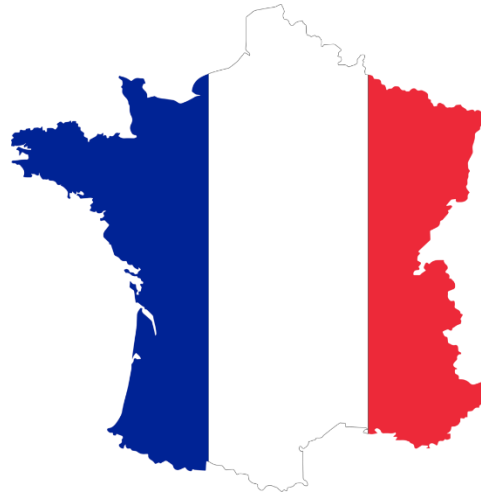
Do people want wind?



A majority of people living close to wind farms are happy with them



75%



80%



86%

The growth of onshore turbines



Engage communities



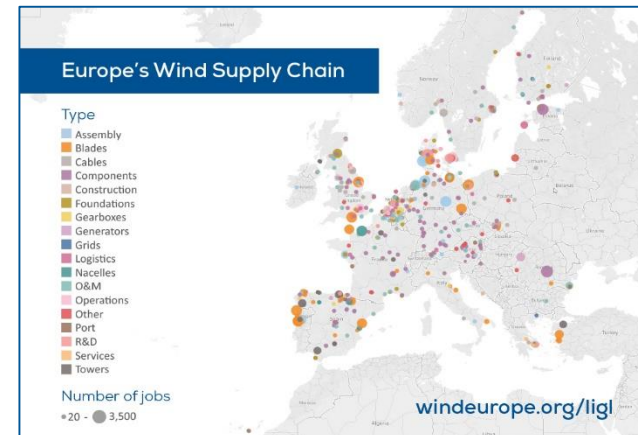
Our 5 priorities for the new EU Institutions

- Ambition on decarbonisation
- Smart approach to electricity & gas
- Money for Infrastructure
- Research & Innovation
- A renewables industrial policy

Wind
EUROPE

5 priorities for the new European institutions

- **Ambition on decarbonisation.** Net-zero carbon by 2050 delivered through the 2030 National Energy and Climate Plans.
- **A smart approach to electricity and gas.** The electricity share in Europe's energy has to rise to at least 60%. Electricity is the cost-effective way to decarbonise heating, transport and much of industry. Hydrogen from renewable power will also play a role.
- **Money for infrastructure.** InvestEU, the Structural and other Funds must channel investments in grids, storage, EV charging and other infrastructure, e.g. ports for offshore wind.
- **Research and innovation.** Horizon Europe should prioritise renewables and continued innovation in technologies where Europe leads, like onshore wind.
- **A renewables industrial policy.** Wind employs more than 300,000 people in Europe and exports €8bn high-tech equipment outside the EU. Free trade is central to competitiveness.



THANK YOU

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Wind[•]
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