OFFSHORE 2015 COPENHAGEN
ORGANISED BY EWEA
10-12 MARCH

# Wind Energy in the North Sea

## Regional Cooperation and MSP in the North Sea

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European Wind Energy Association (EWEA)

29th January 2015

# Around 600 members from almost 60 countries

- Manufacturers with a leading share of the global wind power market
- Component suppliers
- Research institutes
- National wind and renewable associations
- Developers
- Electricity providers
- Finance and insurance companies
- Consultants
- Contractors

# EWEA's leading members

EWEA
THE EUROPEAN WIND ENERGY ASSOCIATION

acciona Energía

ALSTOM

DONG energy

e·on Climate & Renewables

EDF energies nouvelles

edp renewables

Enel Green Power

ERG Renew

ENERCON ENERGY FOR THE WORLD

GE

IBERDROLA RENEWABLES

res power for good

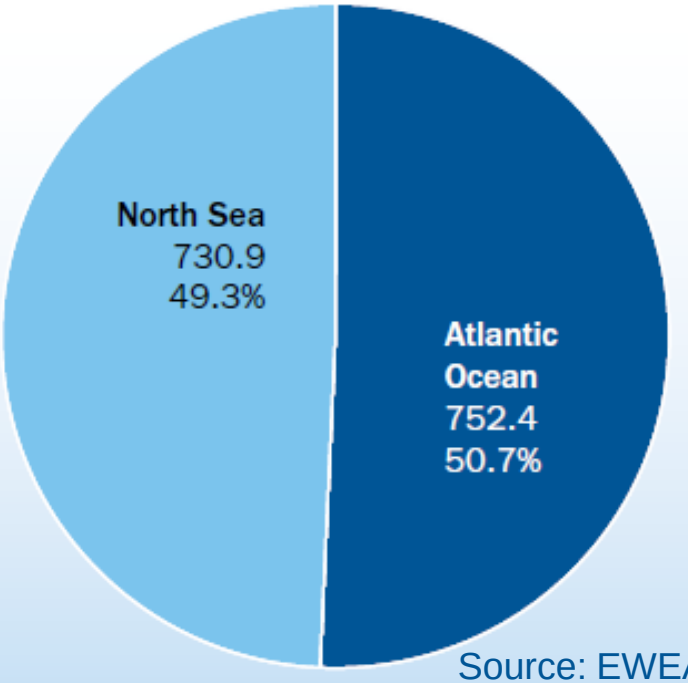
SIEMENS

VATTENFALL

Vestas Wind. It means the world to us.

# 2014 and the Offshore Wind industry in statistics:

- 1,483 MW of installed capacity in 2014
- 408 turbines installed and grid connected
- 4 offshore wind farms and 1 demonstrator fully commissioned
- All installations carried out in UK, Germany, and Belgium
- 2014 installations carried out within the Atlantic and North Seas



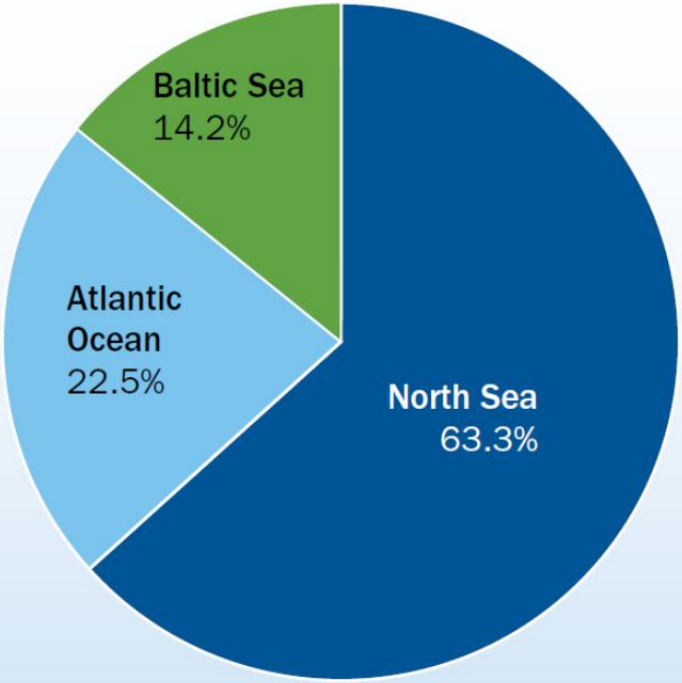

Source: EWEA, 2015

## The cumulative picture:

- 8,045 MW of installed offshore capacity in Europe
- 2,488 turbines installed and grid connected
- 74 offshore wind farms full

commissioned

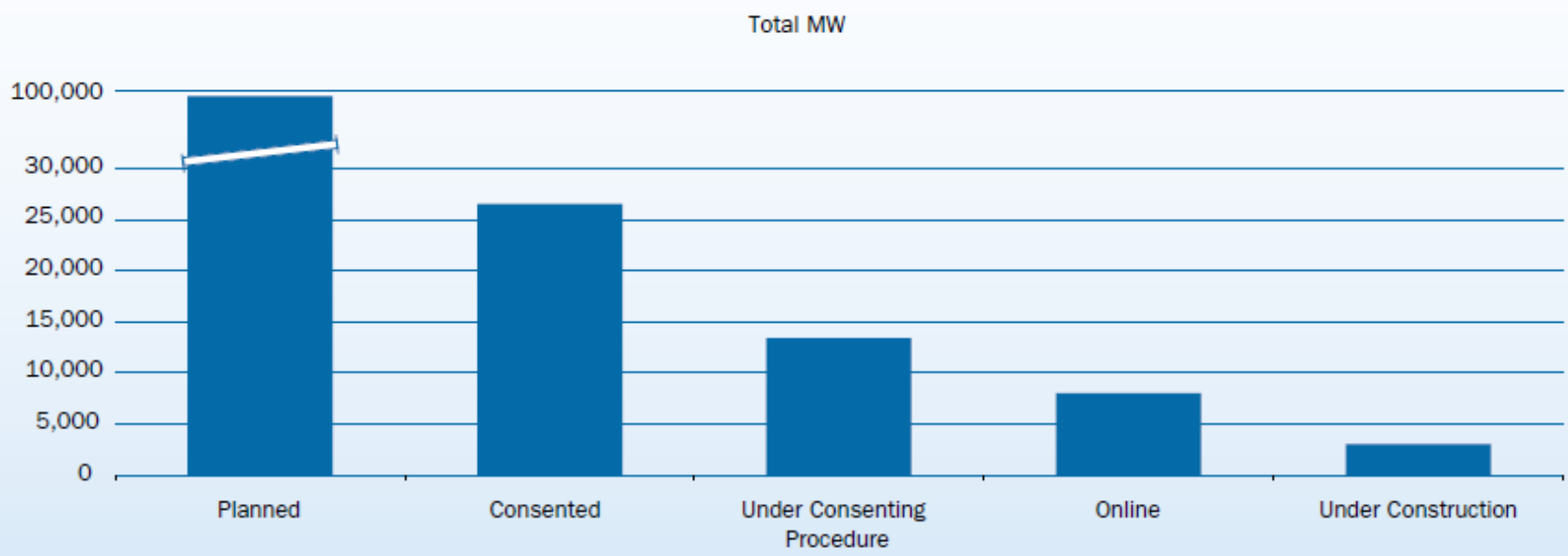
- Offshore developments in 11 Member States




Source: EWEA, 2015

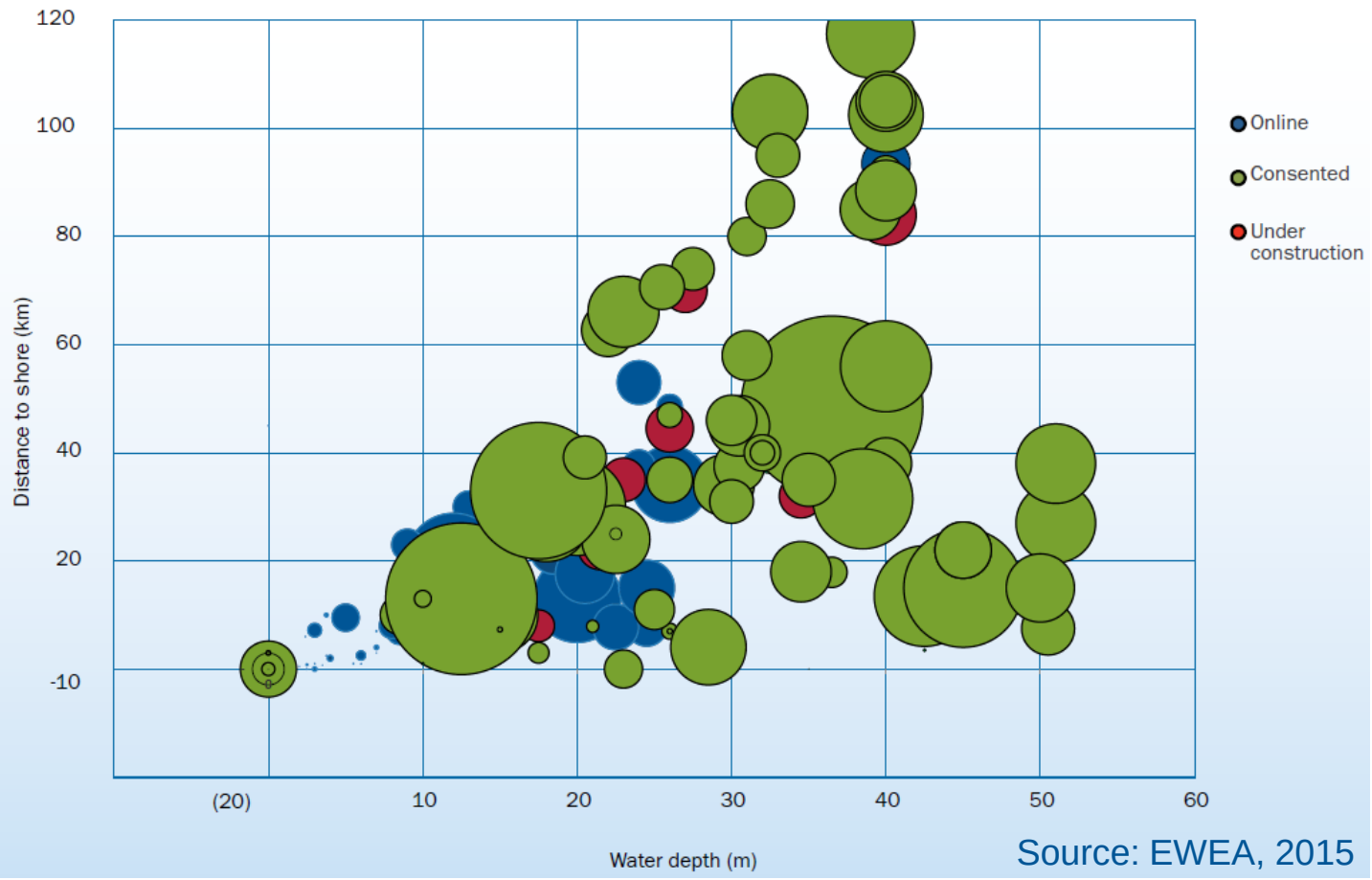
# The immediate future

- 12 offshore wind sites under construction, once connected they will add a further 2.9 GW, 84.8% of which will be in the North Sea (2.4 GW)
- 26.4 GW consented, 75% in the North Sea (19.8 GW)




Source: EWEA, 2015

# Distance to Shore and Water Depth:
## *Moving further and deeper offshore*




Source: EWEA, 2015

# The challenges of offshore wind

- Cost Reduction
  - Stable regulatory frameworks – Long-term vision
  - Tackle regulatory barriers (e.g. MSP, building codes, etc)
  - Standardisation
  - Technology innovation
- A regional offshore transmission approach
  - Who bears liability on connection delays?
- Knowledge management and collaboration
  - Marine data collected at MS level through EU funding should be public and re-usable. One-stop shop platform?
  - Synergies with other sea users

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# Thank you very much for your attention

www.ewea.org/offshore2015