

# Delivering Europe's Green Deal

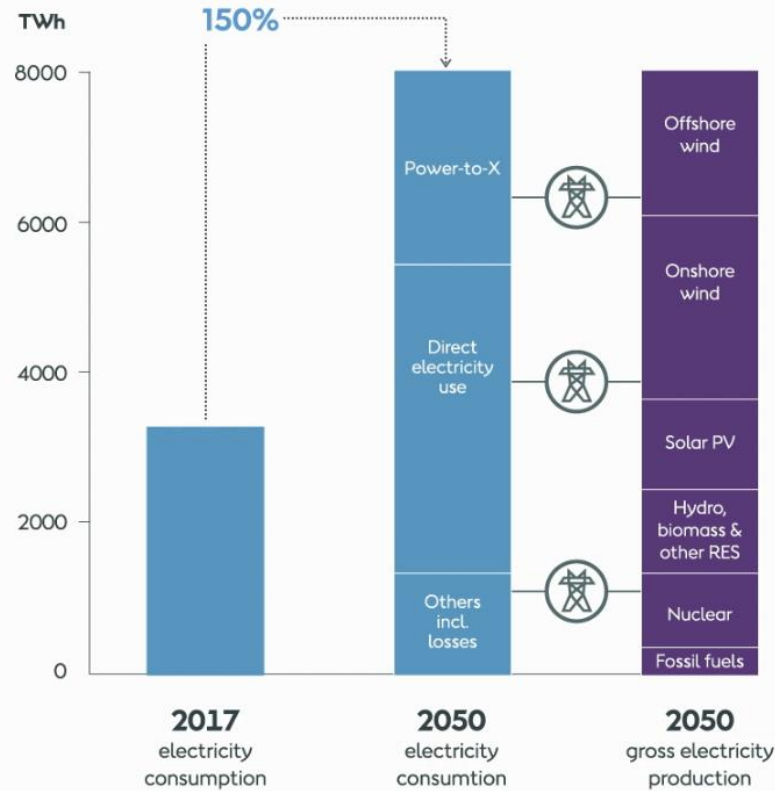


What it takes to develop  
450GW of offshore wind

Martin Neubert  
CEO  
Ørsted Offshore  
2019-11-27

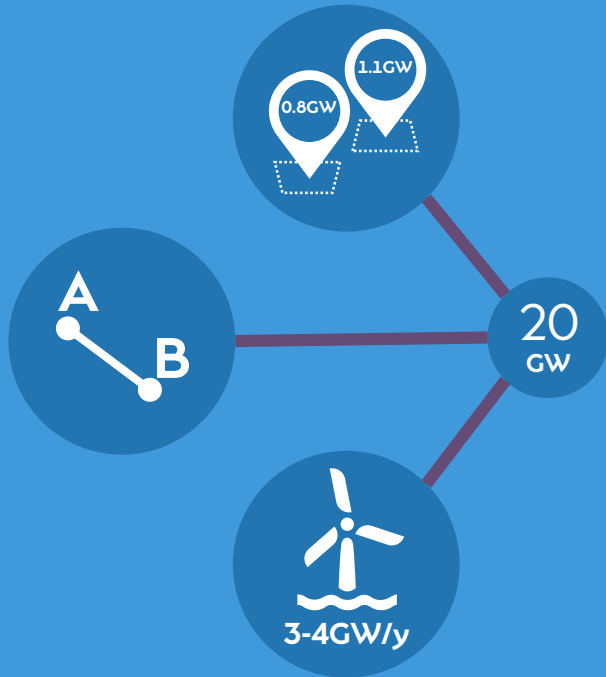
Ørsted

# Decarbonisation → electrification → 450GW

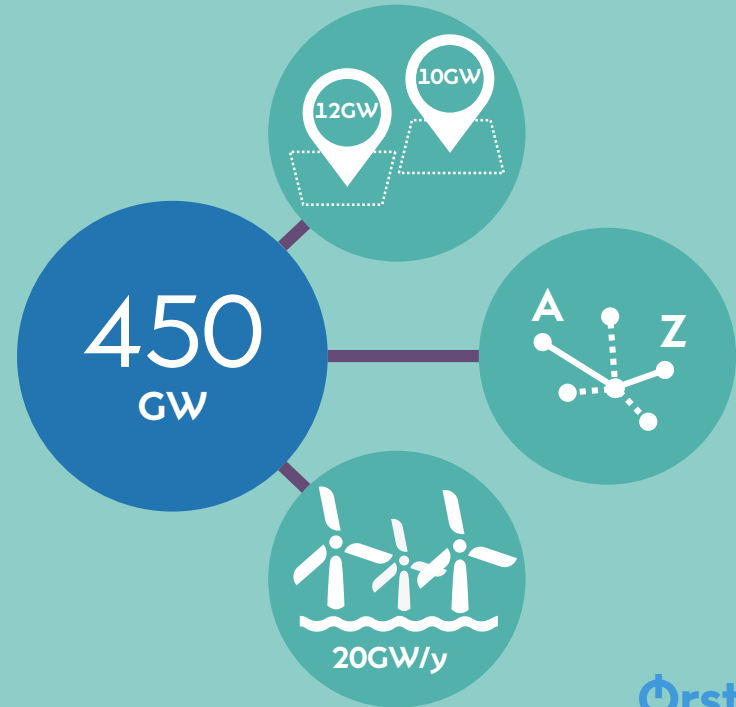


# Europe needs a new approach to offshore wind energy

Traditional approach

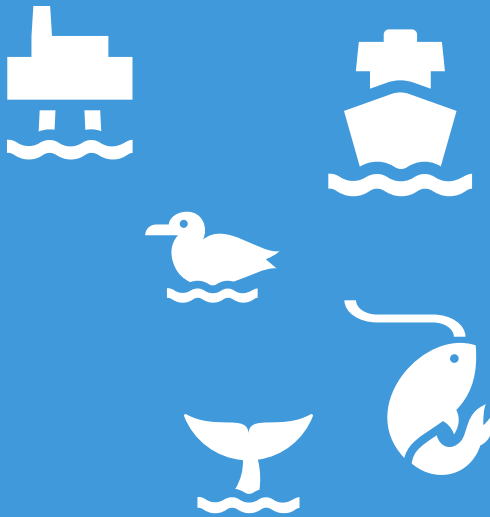


'Green Deal'-approach



# Finding the space for 450GW of offshore wind energy

Traditional approach



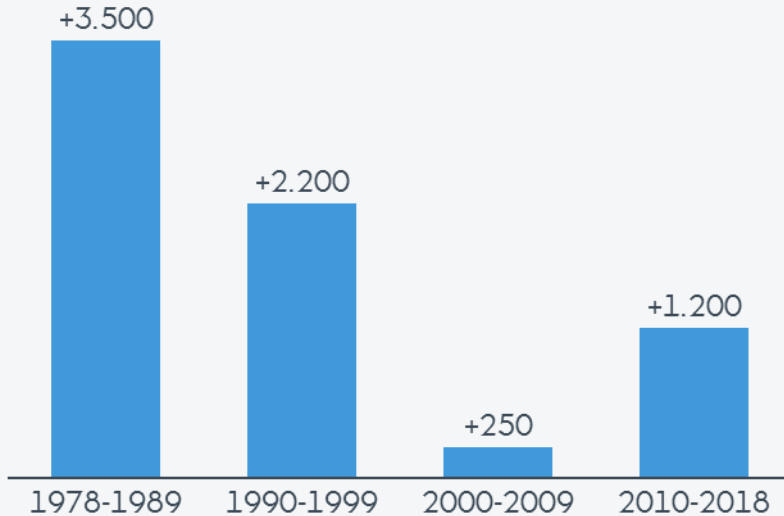
'Green Deal'-approach



# Need for more transmission

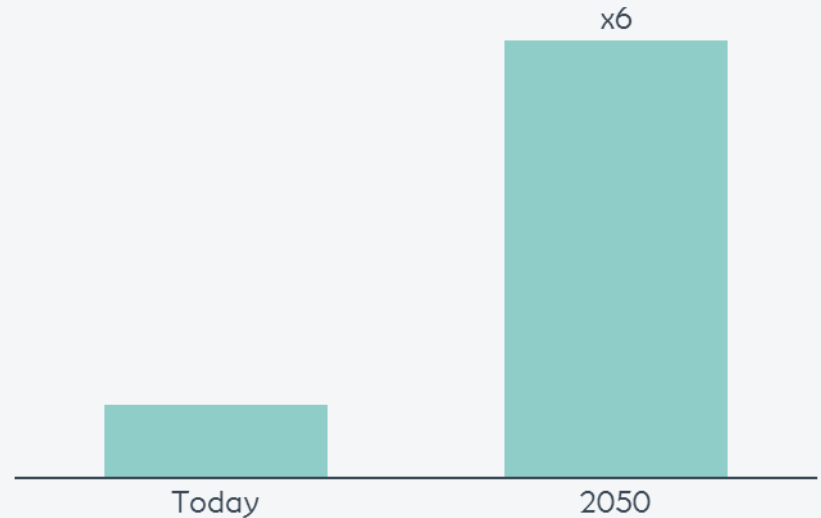
## ONSHORE

**Historical buildout of 220-400kV transmission**  
km per year<sup>1</sup>



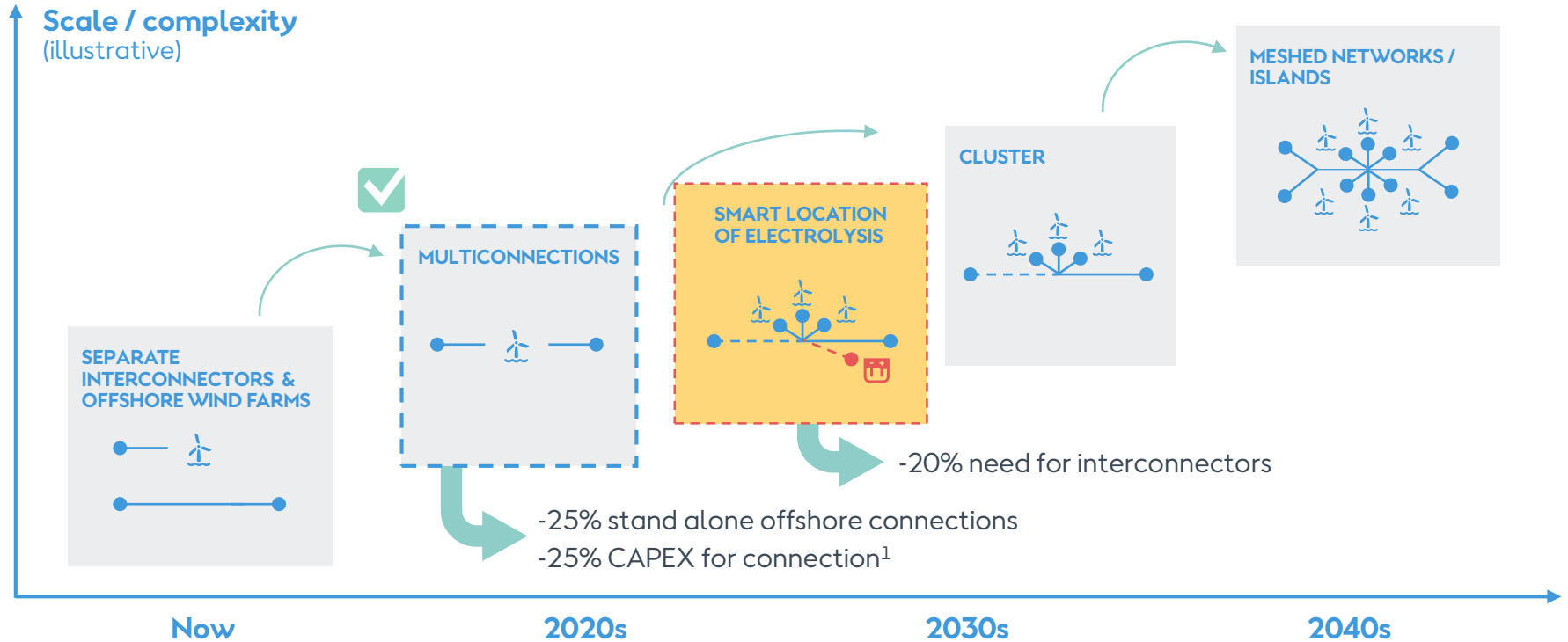
## OFFSHORE

**Need for 6x more capacity**  
Interconnectors




<sup>1</sup>: Source: ENTSOE, Power Statistics, Inventory of transmission 1975-2015 and 2014-2018, Nordel annual reports and own calculations. Countries incl.: AT, BE, CH, DE, ES, FR, IT, LU, PT, DK, FI, IS, NO and SE.

# Bringing the offshore wind energy to Europeans



# Bornholm as the world's first energy island

 **Rønne Banke**  
Designated Danish  
Windfarm area  
First tender ~1GW

 **Rønne Banke**  
Designated Danish  
Windfarm area  
Later tenders ~1GW  
each

— Interconnector in  
first tender

-- Potential new  
interconnectors

Illustrative

 Orsted

## Scaling up the industry ... We are ready



1991: Vindeby (5MW)



2019: Hornsea 1 (1218MW)



**Let's create a  
world that  
runs entirely on  
green energy**

