

Balansen mellom standardisering og kompleksitet i offshore vind prosjekter

Arve Rettedal, VP Renewables, Equinor
Oslo 21.09.2023



Delivering on our strategy

Optimised oil & gas portfolio

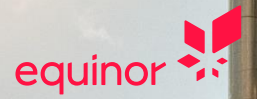


High value growth in renewables

3.6
GW
under Construction



New market opportunities in low carbon solutions



- Oil and gas - Carbon efficient production

- 2030: Renewables 12-16 GW capacity and potential to produce 35-60 TWh

First Power Dogger Bank

- LCS - 3-5 major hydrogen clusters by 2035

Net zero
by 2050

We base decisions on *years* – not news-cycles

← [Back to overview](#)

BREAKING: Germany Rakes In EUR 12.6 Billion Through ‘Dynamic Bidding’ Offshore Wind Auction

CONTRACTS & TENDERS

July 12, 2023, by Adnan Durakovic

Germany's first dynamic bidding process, covering four offshore wind zones with a combined capacity of 7 GW, has generated EUR 12.6 billion in proceeds, according to the Federal Network Agency.



TROR DET GÅR: Statsminister Jonas Gahr Støre mener det skal la seg gjøre å bygge ut nok ny kraft i Finnmark. Foto: Aurora Ytre VG

Støre om Melkøya-bråket: Satser alt på vindkraft

Statsminister Jonas Gahr Støre (Ap) lar seg ikke rokke av den massive kritikken mot Melkøya-prosjektet. Men han erkjenner at hans plan er helt avhengig av massiv utbygging av vindkraft – og at det er en risiko.

Energy | Environment | Sustainable Markets | Grid & Infrastructure | Exploration & Production

Equinor opens world's largest floating wind farm in Norway

By Nora Buli

August 23, 2023 6:35 PM GMT+2 · Updated 2 days ago



Energy | Fuel Oil

Siemens Energy cuts profit outlook on wind turbine woes

By Christoph Steitz and Inti Landauro

January 20, 2023 2:27 PM GMT+1 · Updated 7 months ago



Energy | Grid & Infrastructure | Exploration & Production | Wind | Clean Energy

Orsted quit German offshore wind auction on price concerns

By Nora Buli

July 13, 2023 5:02 PM GMT+2 · Updated a month ago

US Edition

Vestas Warns Wind Turbine Backlog Still Dragging on Earnings

- Company EBIT swings back to losses during second quarter
- CEO says Vestas is focused on return to full profitability

RENEWABLE ENERGY

bp, Equinor revisit US offshore wind projects power sale agreements

bp and partner Equinor are renegotiating the terms of power supply agreements linked to their giant wind developments off the US East Coast, according to bp CEO Bernard Looney.

Aug. 2, 2023

FLOATING WIND

What does it take?



Transparency and effectiveness
in regulatory regimes

Scale to reduce cost

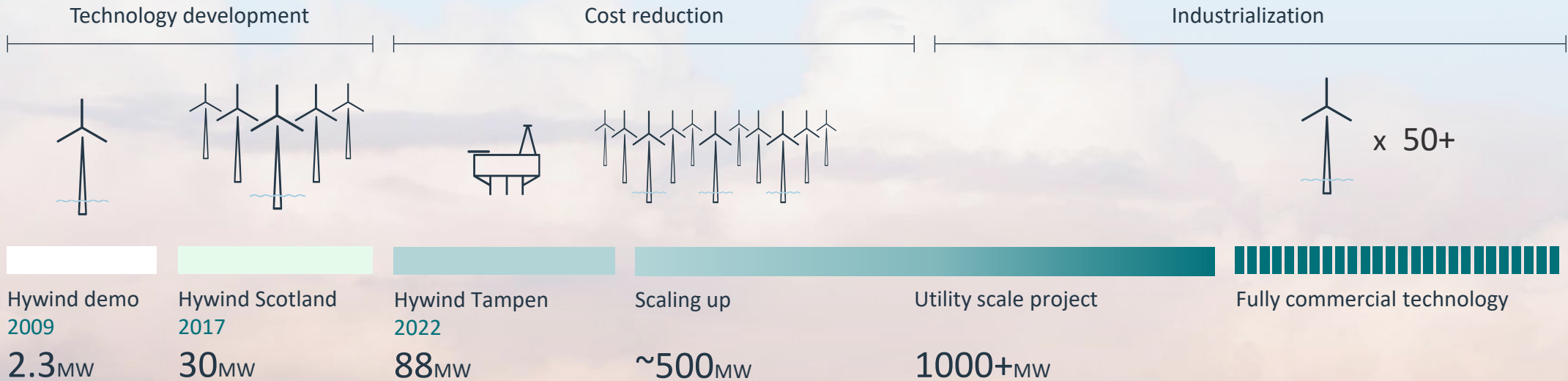
Continue technology
development

Understanding environmental
effects and facilitating for
coexistence



FLOATING OFFSHORE WIND

Floating wind is becoming a competitive source of energy



The renewable industry poses new challenges for a winning project delivery model



More local

Need to deliver on local customer/market needs, significant front-loading expected



More commercial risks

power markets, consenting, offtake contracts, project financing – less technical risks

Competitiveness = effective, improving and shaping project development engine



Different supplier approach

product innovation, local supply chain, capacity constraints



More similarities across projects

“global factory approach”, scale and repetition

TECHNOLOGY

Leveraging five decades of oil and gas experience



Safety our first priority



Large complex projects and supplier relations



Financial strength & risk management



Leverage local presence & corporate capabilities



Marine operations & maintenance



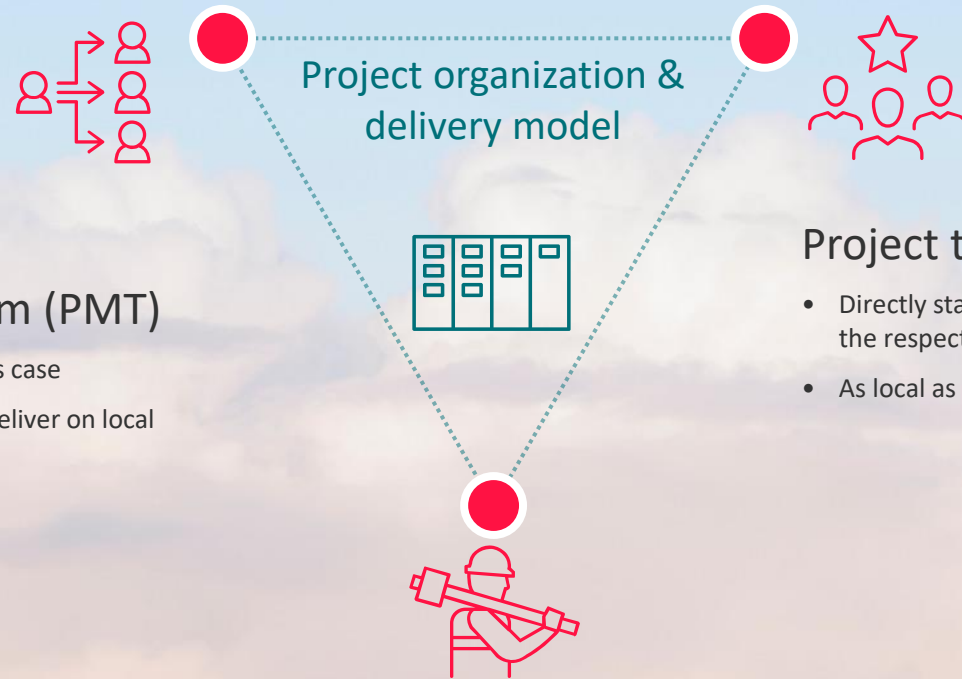
Technology & innovation



Project organizations will look similar as before, but will get stronger support with standardised EPCD deliveries

Project management team (PMT)

- Accountable for the integrated business case
- Ambition for full PMT in the region to deliver on local customer needs



Project organization & delivery model

Project team members

- Directly staffed to the project, reporting on tasks into the respective PMT roles
- As local as possible, dependent on the individual role

EPCD deliveries

- Global EPCD resources (e.g. product lines) delivering towards the project team
- Standardised products and approaches as starting point, adjustment to specific project needs

Questions?



Balansen mellom standardisering og kompleksitet i offshore vind prosjekter

Arve Rettedal, VP Renewables, Equinor
Oslo 21.09.2023

