

An ocean of opportunities

Offshore Wind in Norwegian Waters

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Three key points:

What have we learned so far ?

What is Equinor doing ?

What do we need to do together ?





Huge & complex projects built to last for more than 3 decades

		- ESIAS
Planning is critical	Complex execution	Advanced logistics & operations
 3-5 years of preparations Critical to collect quality data Requires close cooperation Capital intensive 	 Huge contracts and multiple interfaces Complex marine operations Technology risk is still key 	 HSE is fundamental for success Will need to operate for 30 years High availability is needed A 24-hour operation



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Offshore wind is an industrial opportunity

- Increased demand for power from offshore wind in both Norway and Europe
- Norwegian industry is well positioned, further development required and possible
- Target of 30 GW by 2040 in Norway
- Offshore wind in Norway has highest priority for Equinor



Our short term ambitions



Hywind Tampen – floating



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Trollvind – floating

- Electrify the region
- Bridge Tampen and Utsira Nord
- Start industrialization

Utsira Nord – floating

- Continue to develop Norwegian leadership in floating
- Increased scale and further cost reductions
- Strengthen power situation at the West Coast



Sørlige Nordsjø II – bottom fixed

- Key contributor to the North Sea as an energy hub
- For developers with experience from large offshore wind HVDC projects
- 50-70 m water depth technological and industrial development needed



Hywind Tampen

a good example

- 11 wind turbines
 (combined capacity of 88 MW)
- Concrete substructures
 and shared anchors
- 200.000 tons/year CO2 emission reduction
- 30%-40% cost reduction from Hywind Scotland
- 60% Norwegian content









What need to do next?

- \checkmark An efficient high quality consenting process
- \checkmark Allow for flexibility in detail planning
- ✓ Speed and predictability
- \checkmark Pre-qualification to players than can deliver
- ✓ Develop industrial solutions together
- ✓ Start building projects projects build experience
- \checkmark A long-term solution on what to do with the power



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