

Norwegian Offshore Wind







Consisting of strong developers and a supply chain with large contractors as well as niche suppliers. HYPERLENKER TIL HVER KATEGORI

Norwegian Offshore Wind – Supply chain

Offshore Wind Developers						
EPCI						
Development & engineering	Turbine supply	Balance of plant	Installation & commissioning	Operation & maintenance	Life time extension & decommissioning	Ecosystem
Site investigation and surveys	Marshalling yards	Turbine foundations	Turbine installation	Maintenance services	Life time extension	Law
Design and engineering	Turbine logistics	Assembly yards	Foundation installation	Inspection services	Decommissioning	Finance
Project management	Drive chain	Electrical cables	Offshore and onshore cable installation	Vessels		Marketing
Consenting and development services	Power conversions and supplies to the turbine	Electrical systems	Offshore and onshore substation installation	O & M ports		Digitalisation and systems
		HVAC/HVDC/ Substations	Installation port	Training and certification		Universities and research institutions
		Secondary steel work	Installation logistics	Monitoring		Government and other public institutions
		Mooring	Commissioning			
		Equipment for foundation and transition piece				

**We develop world leading supply
chains within offshore wind**



Markets



Innovation



Supply chain

Norway's goal:
30 GW by 2040

Offshore wind parks

Floating : Utsira Nord

1,5 GW

3 areas, each 500 MW

Power cable to Norway only

Bottom fixed : Southern North Sea II

1,5 GW

1 area

Power cable to Norway only

Auction winner : Ventyr (Parkwind and Ingka Investments)



New potential areas in Norway

75 percent floating

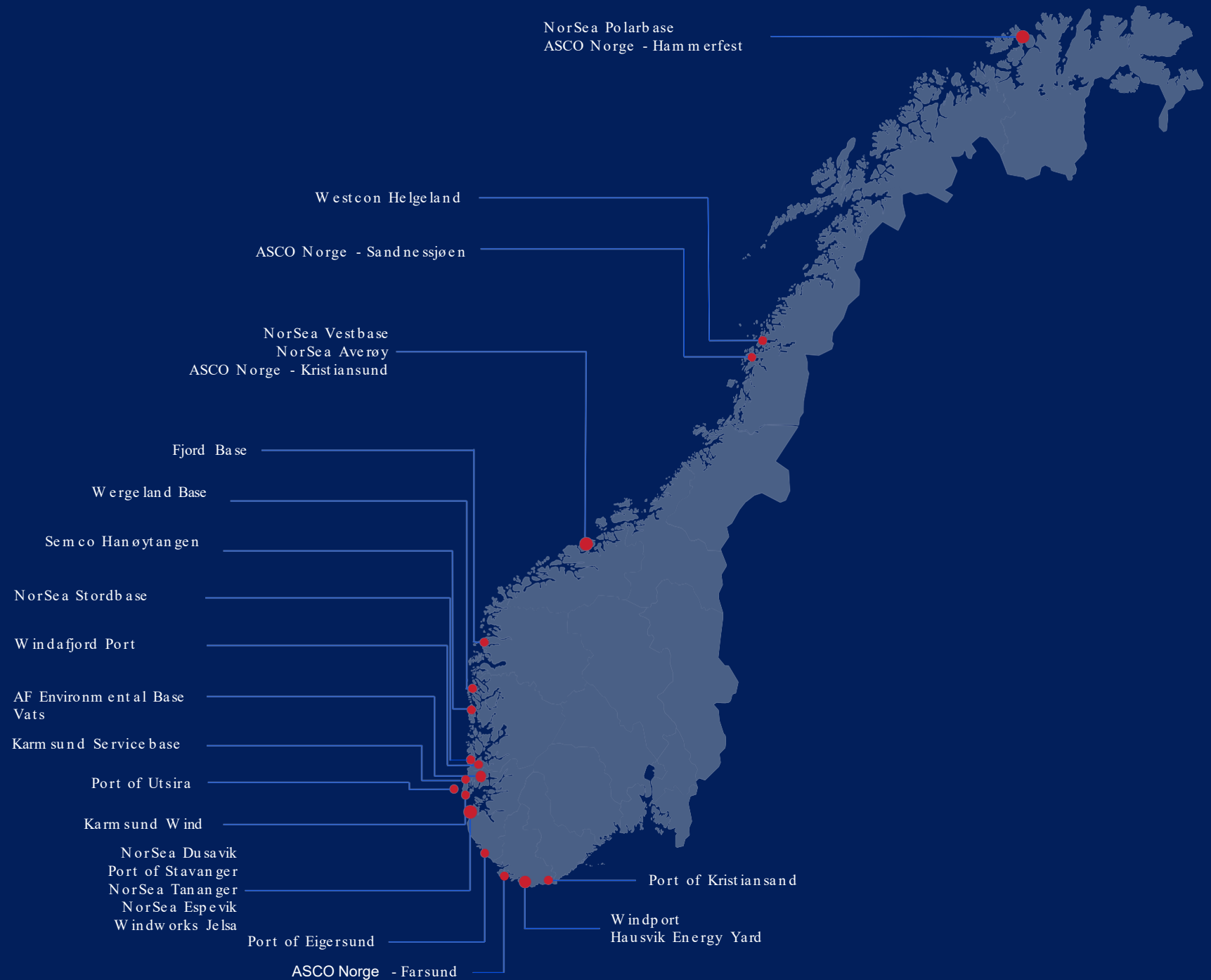
Ongoing strategic impact assessments

Next offshore wind tenders for applications : 2025





Norwegian Offshore Wind



Mapping of the working group

- an enabler for targeting the groups for visits

Development & engineering

Aker Offshore Wind AS
BlueFloat Energy
EIDEL
Energy Innovation AS
Geoprovider
Global Maritime
"Magnora Offshore Windl sammen med Technip"
Moreld Ocean Wind
Offshore Wind Design AS
Semar
Saitec Offshore Technologies

Installation & commissioning

AmonAS
BOA Management AS
Havfram
Saitec Offshore Technologies
Subsea 7
Seasystems
Global Maritime
Moreld Ocean Wind
Semar

Turbine supply & balance of plant

Applus Norway AS
Flux AS
Glamox International
Imenco
Marine Aluminium AS
MRC Global
Scan Tech AS
The Crosby Group
Uptime International AS

Operation & Maintenance

Axess Group
Polyform AS
RaKon AS
GC Rieber Shipping AS
Windkeeper

Eco systems

GIEK
Deloitte Advokatfirma AS
DNV GL
Florvåg
Geo-Wise
INTELLICO
ISQ A.S. (copy)
ISQ AS
James Fisher Asset Information Services
Kongsberg Norcontrol
Lloyd's Register
Miros AS
Rieber
StormGeo AS
XOCEAN

Visit NOW Concept

Why – Who – How

- **Market entry** : Visit NOW is the key export measure for supporting you as a member to enter offshore wind markets
- **Tailor made** : We focus on matchmaking and networking activities through tailor made visit based on your needs
- **Project based** : Activities are set up with relevant stakeholders in specific wind farm projects such as:
 - Wind farm developers
 - Relevant EPCIs
 - Targeted ports
 - Local companies relevant for your value provision
- **Long run approach** : Yearly visits will be set up to cover the changing needs of developer/EPCI in the project development

Working Group UK/Ireland

Visit NOW & Conferences

Alfred Risan – Tor Arne Johnsen

2024

- Webinar: UK markets & Freeports – 31. Jan
- Visit NOW Ports – 20-21 Feb
- Global Growth 5 – 7 March

- SNS May in Norwich
- Floating Wind Days 29 – 30 May
- Global Offshore Wind 18 – 19. June
- Webinar joined / combined with NOF

- Webinar Celtic Sea leasing round (tbc)
- Webinar AR6 (tbc)
- Visit NOW Ireland – supply chain days (tbc)
- Floating Offshore Wind Aberdeen 9 – 10 Oct

- Offshore Wind Northeast 6-7 Nov
- Wind Energy Trade show 6-7 Nov

Q1

Q2

Q3

Q4

Dec

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

Sep

Oct

Nov

Dec

Start

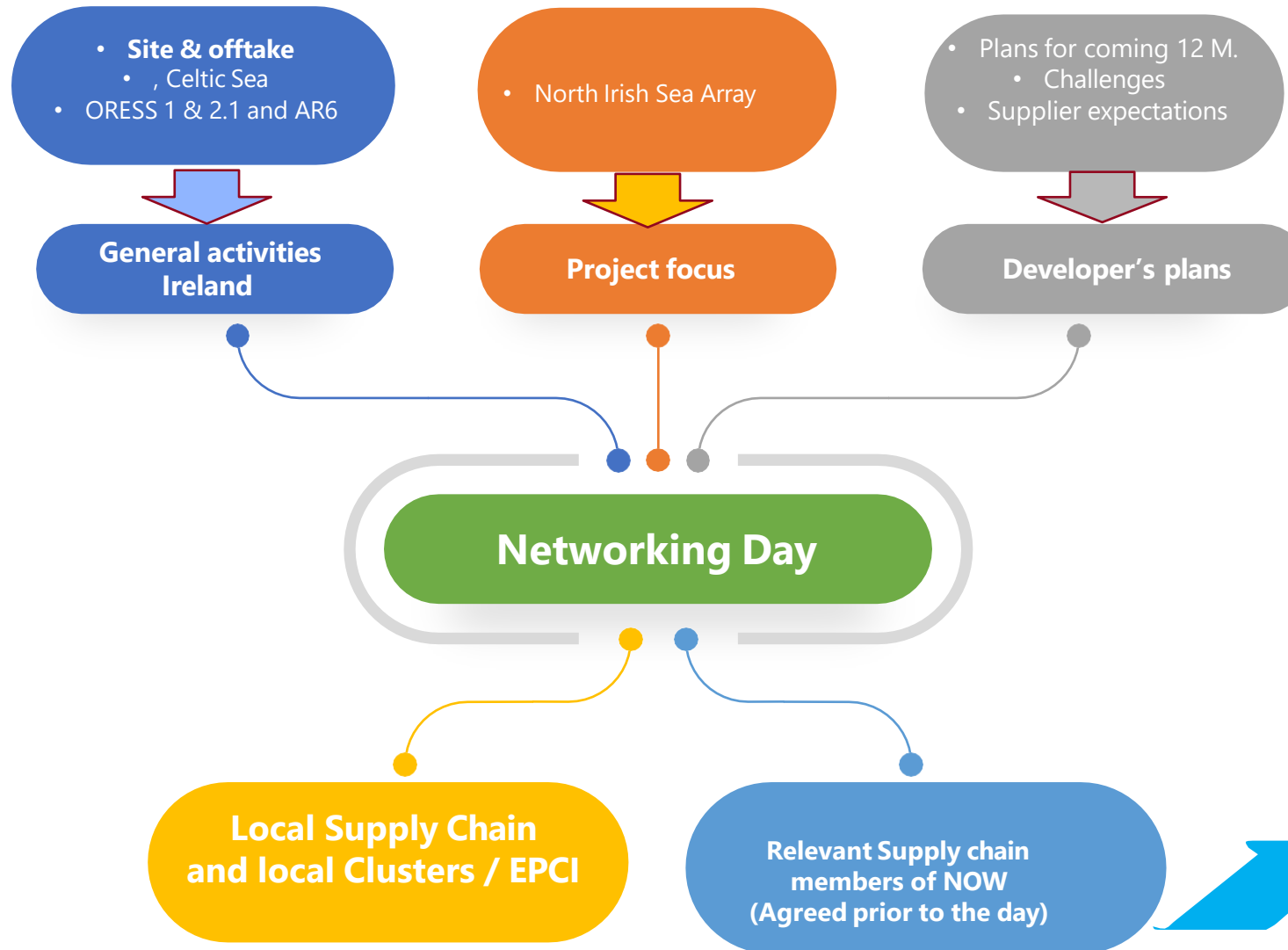
Q1

Q2

Q3

Q4

Supply Chain Networking Day



Norwegian Offshore Wind – Supply chain

Offshore Wind Developers						
EPCI						
Development & engineering	Turbine supply	Balance of plant	Installation & commissioning	Operation & maintenance	Life time extension & decommissioning	Escrowment
Turbine investigation and surveys	Manufacturing yards	Turbine foundations	Turbine installation	Commissioning	Maintenance services	Life time extension
Design and engineering	Turbine logistics	Assembly yards	Foundation installation	Inspection services	Decommissioning	Finance
Project management	Drive chain	Electrical cables	Offshore and onshore cable installation	Vessels		Marketing
Consulting and management services	Power conversion and supply to the turbine	Electrical systems	Offshore and onshore system installation	O & M parts		Operational and safety
		HVAC/DC Substation	Installation part	Training and certification		Operational and other parts
		Secondary steel work	Installation logistics	Marketing		
		Mooring	Commissioning			
		Equipment for foundation and				

Why extend our networks?

- ✓ Sufficient capacity on the different segments of the supply chain is a challenge the whole market has attention on.
- ✓ Pooling the capabilities and strongholds in the two countries when it comes to early development, balance of plants, fabrication, installation and O&M will create increased capacity and new capabilities
- ✓ These initiatives should work as enabler for improving