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# South Korea Trade Mission Info Session

Blue Cluster – ER-MARINE



The Pomeranian Platform  
for the Development of Offshore  
Wind Energy in the Baltic Sea



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## Agenda

- ELBE Eurocluster
- Offshore Wind in South Korea
- Program of the mission
- Support for SMEs
- Q&A

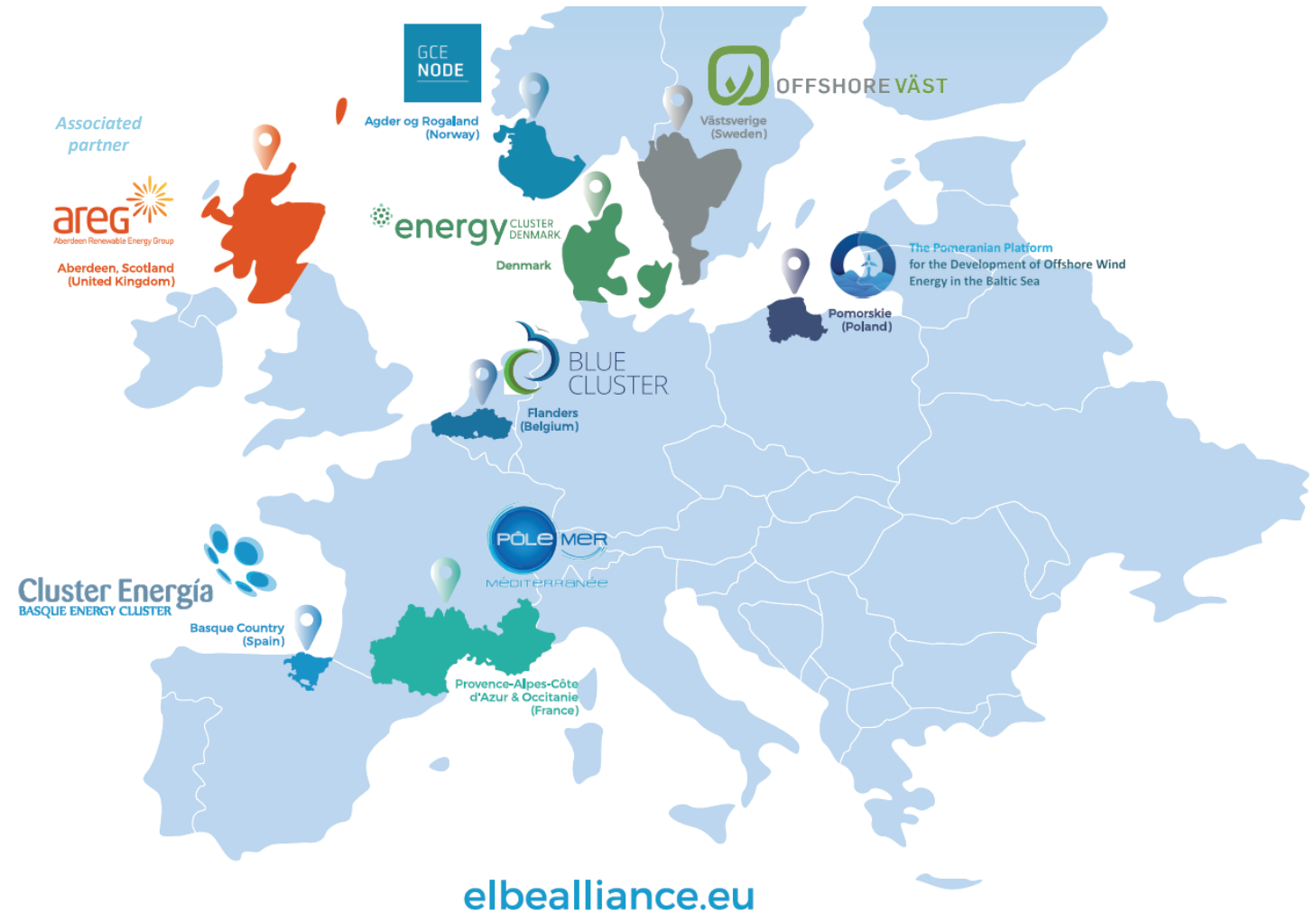


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# ELBE Eurocluster Introduction

ELBE is an alliance of 8 clusters in leading regions and countries of the offshore renewable energy sector

ELBE has been selected by the European Commission as the leading Joint Cluster Initiative (Eurocluster) in the renewable energies' industrial ecosystem



Its goal is to promote European Collaboration in the fields of innovation, internationalisation, networking and training in order to contribute positioning Europe as the technological and industrial leader in Offshore Renewable Energy (ORE)

The **innovation** area is mostly organised around the identification of key challenges for the ORE sector by key stakeholders (developers, OEM, etc.) that will then be solved by collaboration among SMEs



Seven **networking** events to communicate about ELBE and its activities in the framework of main conferences (WindEurope, FOWT, etc.)



Specific **training** courses for ELBE SMEs in the areas of digitalisation, sustainability or business modelling



One **internationalisation** mission per year to emerging ORE markets such as South Korea, Australia or Brazil



**Innovation** support scheme, including open calls with a set of challenges in coordination with European ORE stakeholders and to be addressed by interested SMEs



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# Offshore Wind in South Korea

- **Support** for project teams in Korea
- **Consultancy services** regarding business development
- **Technology consulting**
- **Due diligence** as local expert

ER-Marine helps you navigate the complexities of the offshore wind industry in South Korea



Improving acceptability of offshore wind farms, progress of wind farm development and co-existence of fisheries and offshore wind



We lead you how to adopt best fabrication and T&I strategies and we develop O&M solutions for Korean offshore wind projects



Smart mooring solutions combined with load reduction devices create opportunities to reduce the mooring spread on the seabed



The future of floating wind projects is powered by digital twin technology. This solution is key to de-risk, optimising the performance of offshore wind projects





Korea's clean energy transition by

- Reducing coal power generation
- Expanding nuclear power plants and renewable energy

Ultimately building a hydrogen economy ecosystem

Carbon neutrality through multi lateral cooperation to become a global leader in Green Growth

South Korea	Figures
Dependent of fossil fuels	Import energy 93%
Low share of energy from renewable resources	6% only
Korea Government energy transition	21.6% by 2030, 30% by 2036
Offshore Wind	Target 12 GW by 2030 *Currently 124,5 MW in commercial operation (< 1% of the 12 GW 2030 target)
Floating Offshore Wind	9 GW offshore Ulsan 1 GW South West Korea

\* **124,5 MW** offshore wind in commercial operation consists of:

**30,0 MW** - Tamra Offshore Wind Power Complex (2016)

**34,5 MW** - Yeonggwang Offshore Wind Power Complex (2018)

**60,0 MW** - SouthWest Offshore Wind Demonstration Complex (2020)





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## Program of the mission

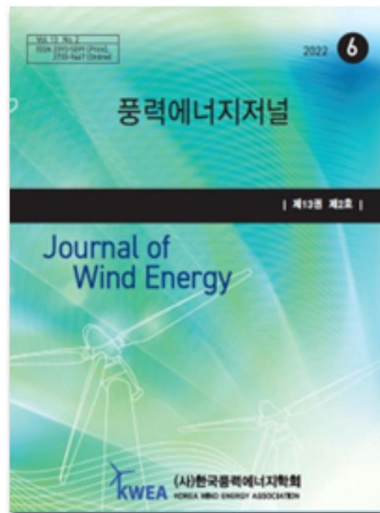


SME's are the innovation engine of the economy, capable of delivering cutting edge products or services to market rapidly and can pivot to take advantages of new opportunities

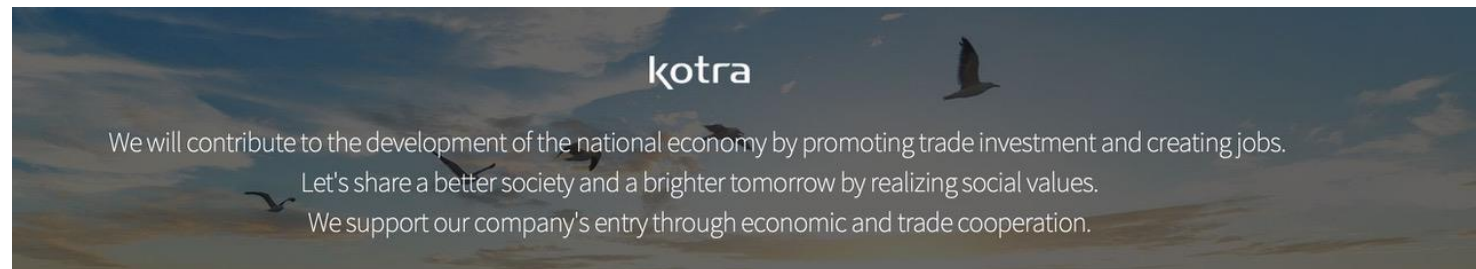
The aim of the trade mission is to make contacts with local organisations and enterprises who are active in offshore renewable energy

Date	Program
26 November 2023	<b>Sunday</b> , individual arrival to Seoul, check- in hotel and meet and greet in the evening, possibility for light dinner   finger food
27 November 2023	<b>Monday</b> , full day conference in Seoul The EU companies will get the opportunity to present themselves to the Korean companies Lunch Dinner
28 November 2023	<b>Tuesday</b> , half day Technical Seminar in Seoul Transfer Seoul to Busan by bus Lunchbox provided Arrival in Busan in the evening
29 November 2023	<b>Wednesday</b> , half day Conference in Busan Transfer Busan to Ulsan ship yard - yard visit Lunchbox provided Transfer Ulsan to Busan Hotel Seafood Experience Busan included
30 November 2023	<b>Thursday</b> , check out Busan Hotel Transfer Busan to Geoje production yard, yard visit Lunchbox provided Transfer Geoje to Seoul - End of mission -

KOTRA and KWEA will bring local insights about Korea offshore wind, discovering new business areas and establishing global partnerships



Organisation	Main Activities
KOTRA	Foster global partnerships; Create new opportunities and discover new business areas ; Provide market information; provide infrastructural support to strengthen global competitiveness ; Support new export companies
KWEA	Contributing to Korean industrial development; Establishing an industry / academic / research network for the development of wind energy



# Korean Offshore Wind Permitting Process

During the conference you will learn about the very details of the complex Korean Offshore Wind Permitting Process.



The “*Offshore Wind Power Special Act*” was proposed to the National Assembly in February 2023 by the ruling People’s Power Party and the opposing Democratic Party



- Reasonable development of offshore wind
- Contribution to the expansion and supply of offshore wind
- Simplification of licensing and improving acceptance
- Strengthening of state governance
- Selection of offshore wind power generation business operators
- Promotion of offshore wind power industry and support for the affected industry



## Smart mooring solutions improving coexistence offshore wind and fisheries

Crucial for the development of floating offshore wind  
(low cost and long term operation)

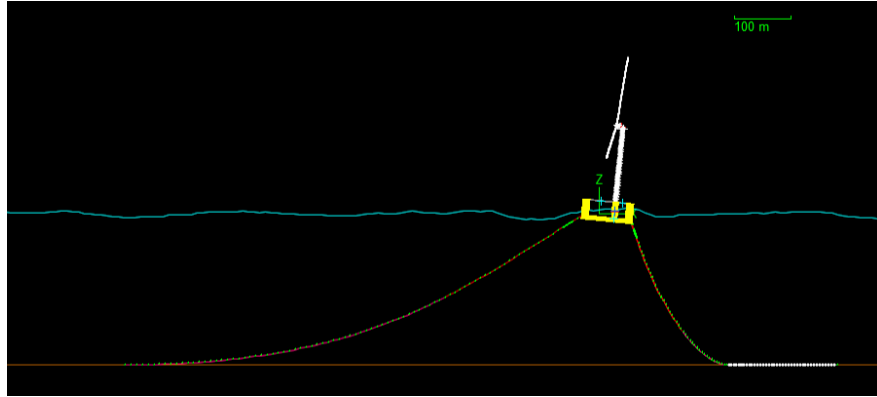
In combination with load reduction devices creating  
opportunities to reduce the mooring spread on the seabed

This allows more space for fishermen, introduction of  
aquaculture projects and improves coexistence offshore wind and  
fishermen

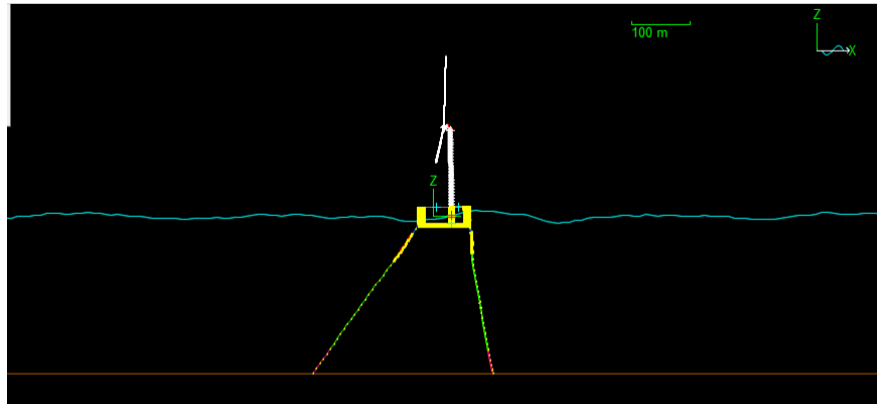




## Smart mooring solutions improving coexistence offshore wind and fisheries



Catenary Mooring System



SeaSpring enabled Taut Mooring System

Using SeaSprings reduces cost, reduces footprint and eliminates seabed interaction (damage/noise)

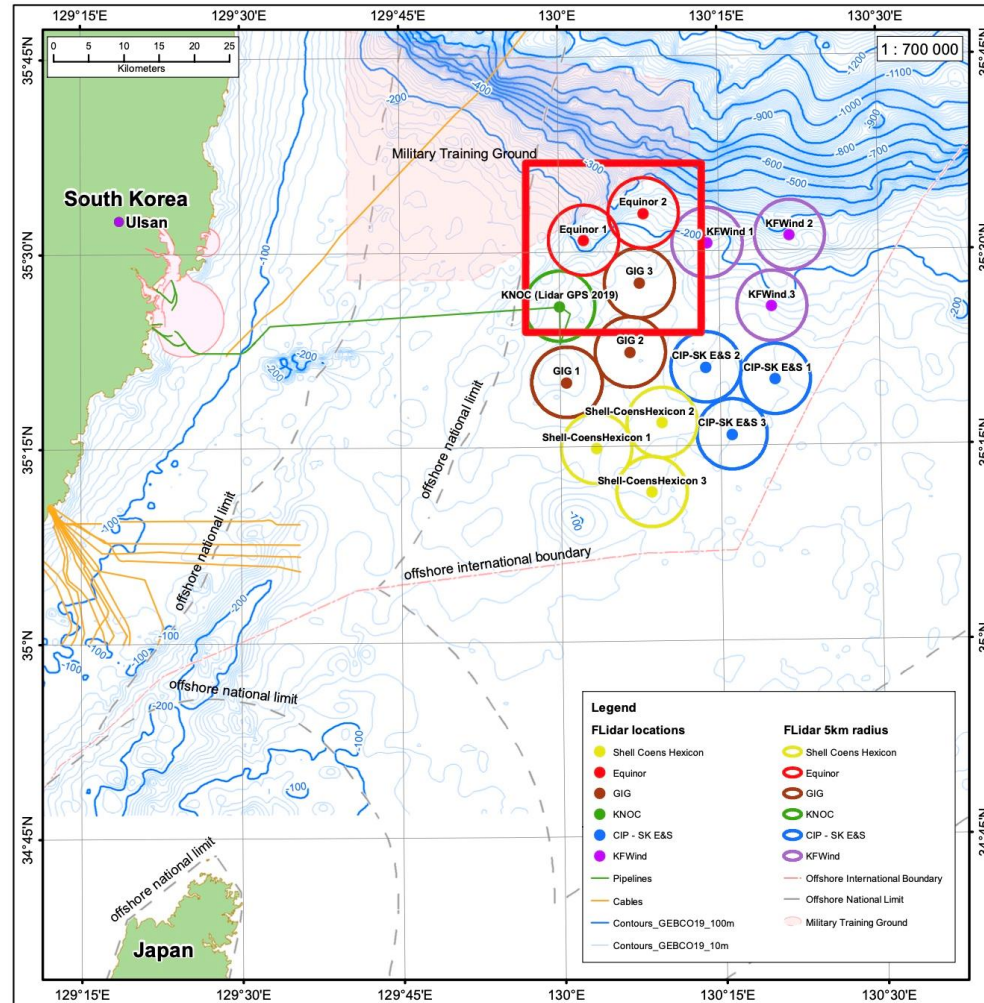
=> good for fisheries / aquaculture



It is crucial to maximise the sea area for fishermen by limiting the wind farm footprint

Why crucial?

Because fishermen to give consent in the offshore wind permitting process !



A Wind Developer will present a floating offshore wind project offshore Ulsan to learn more about specific challenges and opportunities

Major industry players launched the “Ulsan Floating Offshore Wind Association” in April 2023



## Aquaculture as a new South Korean export model

Beginning of 2023 the Ministry of Oceans and Fisheries announced new strategies and initiatives with the goal to secure new growth engines



Innovate Maritime	2023 Work Plan
Industrialise blue food exports	Create massive smart aquafarm clusters and develop 100 exporters to reach 10 million USD in export revenues
Focus on smart processing	Build IoT- based smart processing complex
Focus on eco- friendly aquaculture technology	Carry out smart eco- friendly aquaculture technology programs customised for each recipient nation



Busan aims to host the World EXPO 2030 with the theme “Transforming Our World, Navigating Toward a Better Future”

Three global challenges have been selected

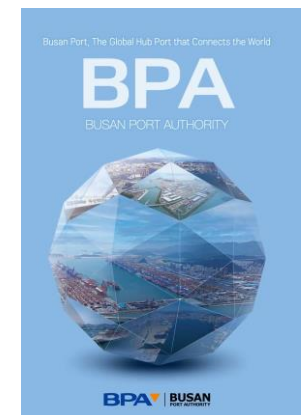
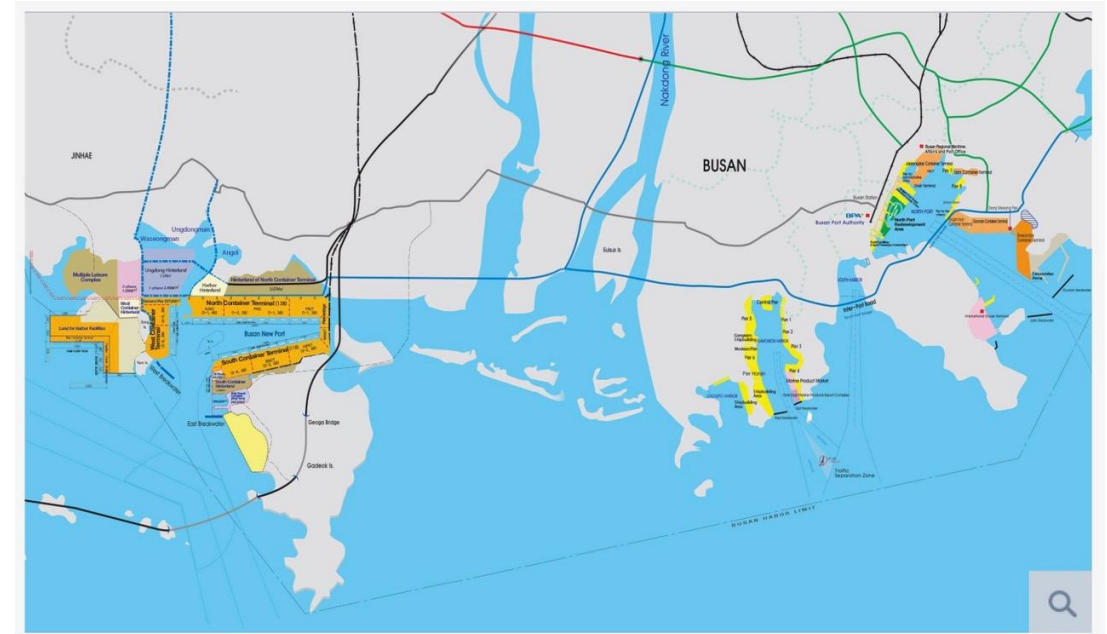
- Climate change
- Downsides of the digital transformation
- Inequality among and within nations

Each theme correlates with UN SDGs  
People, Planet and prosperity



Busan Port, connecting 500 ports in 100 countries is the logistics hub port in Northeast Asia

Busan continue to expand the port facilities and its distribution systems while accelerating the development of a state of the art New Port

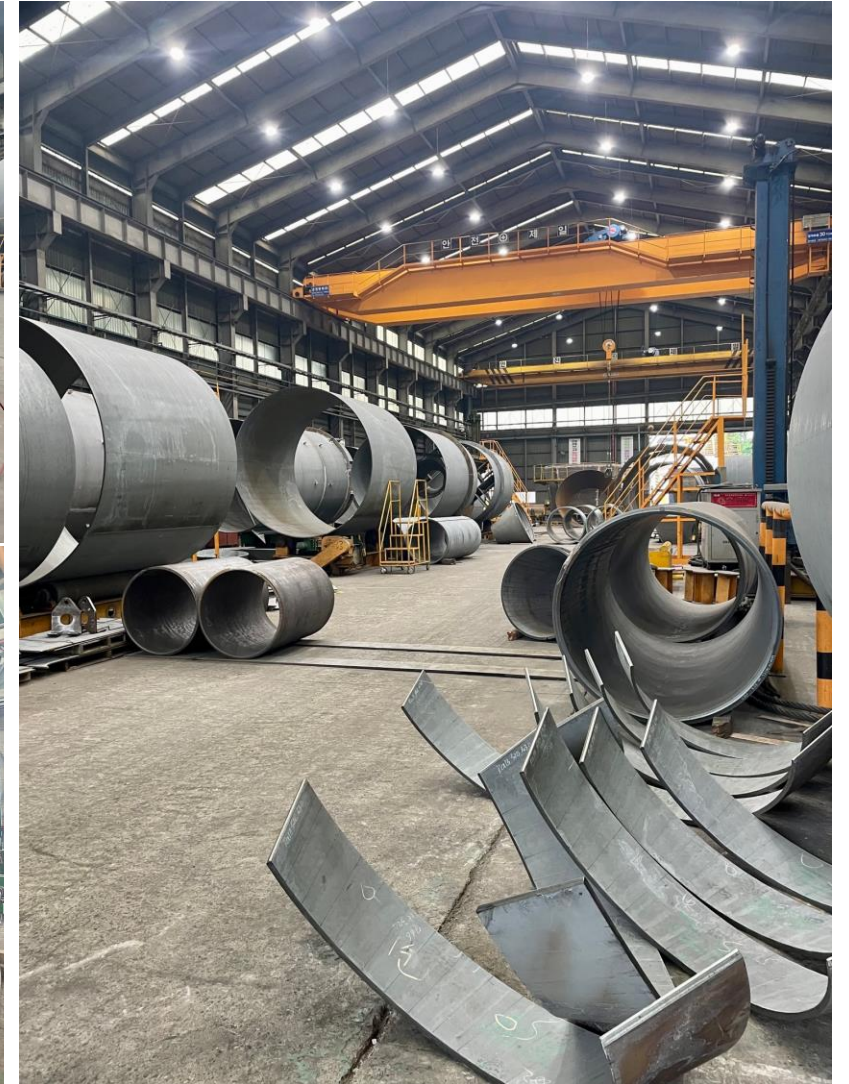
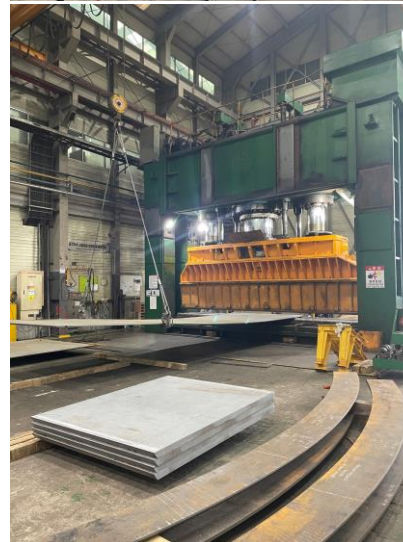


You will experience a guided visit to a major ship yard in Ulsan, Hyundai Heavy Industries



## Visit to a Production yard in Geoje

You will visit a specialised production yard in Geoje specialised in cutting and bending





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**Support &  
Timeline**

# Participants

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- Max. 20 participants; first come, first serve
- SMEs will have preferential access
- Register before August 1st
- Link to express your interest:  
<https://www.bluecluster.be/InterestSouthKorea>

# Costs

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- Fee per participant
- Included in the fee:
  - Practical organisation of the mission
  - Conference, technical seminar and meetings
  - Site visits
  - Lunches
  - Network reception
  - 2 dinners
  - Local transport
- On your own budget: flights, hotels, other local expenses (price/night 215 €)

# Support for SMEs



- EUROCLUSTER budget provides financial support for SMEs
- Condition: **SME according to the EU definition**
  - Staff headcount < 250
  - Turnover <= € 50 m or Balance Sheet Total <= € 43 m
  - If you are part of a larger group you may have to include figures from that group
- In practice:
  - Self assessment tool
  - Declaration
  - Contract
- Large companies: fee and travel costs at own expense





# SME declaration example

MODEL DECLARATION  
INFORMATION ON THE SME QUALIFICATION

**Precise identification of the applicant enterprise**

Name or Business name .....

Address (of registered office) .....

Registration / VAT number (1) .....

Names and titles of the principal director(s) (2) .....

**Type of enterprise** (see explanatory note)

Tick to indicate which case(s) applies to the applicant enterprise:

- Autonomous In this case the data filled in the box below result from the accounts of the applicant enterprise only. Fill in the declaration only, without annex.
- Partner enterprise Fill in and attach the annex (and any additional sheets), then complete the declaration by copying the results of the calculations into the box below.
- Linked enterprise

**Data used to determine the category of enterprise**

Calculated according to Article 6 of the Annex to the Commission Recommendation 2003/361/EC on the SME definition.

Reference period (*)		
Headcount (AWU)	Annual turnover (**)	Balance sheet total (**)

(\*) All data must be relating to the last approved accounting period and calculated on an annual basis. In the case of newly-established enterprises whose accounts have not yet been approved, the data to apply shall be derived from a reliable estimate made in the course of the financial year  
(\*\*) EUR 1 000.

**Important:**

Compared to the previous accounting period there is a change regarding the data, which could result in a change of category of the applicant enterprise (micro, small, medium-sized or big enterprise).

- No
- Yes (in this case fill in and attach a declaration regarding the previous accounting period (3) ).

**Signature**

Name and position of the signatory, being authorised to represent the enterprise:.....

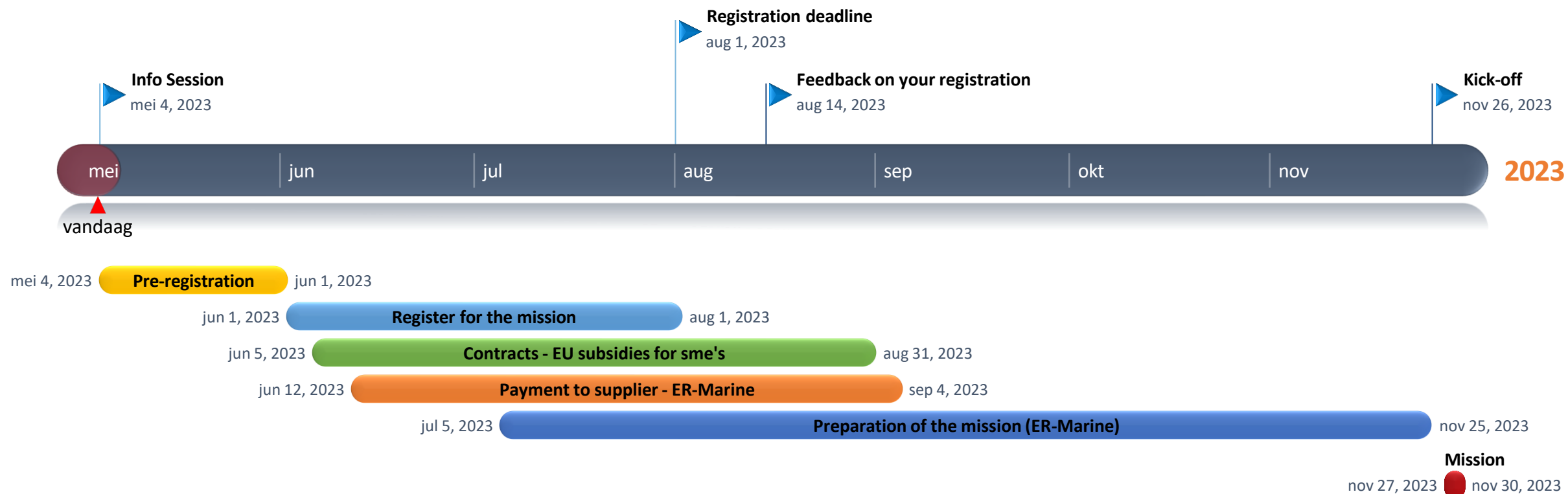
I declare on my honour the accuracy of this declaration and of any annexes thereto.

Done at .....

Signature

(1) To be determined by the Member State according to its needs  
(2) Chairman (CEO), Director-General or equivalent.  
(3) Definition, Article 4 paragraph 2 of the annex to Commission Recommendation 2003/361/EC







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Questions?

## Contact details

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Link to express your interest in the mission:

<https://www.bluecluster.be/InterestSouthKorea>



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**Thank you!**

Hanne Deprez & Ann Overmeire



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