

# NEWSLETTER

## VOLUME. 19

### THE 43rd KOREA ENERGY SHOW



### KIND INVITATION FROM HSGSD

HSG Sungdong is pleased to announce its participation in the 43rd Korea Energy Show, scheduled to take place from September 4th to September 6th, 2024. This prominent event, organized annually by the Ministry of Trade, Industry and Energy and the Korea Energy Agency is originated from the National Fuel Use Device Exhibition in 1975, and has become a leading platform for innovation and progress in the energy sector.

At the HSG Sungdong booth, detailed and comprehensive information will be provided on various types of offshore wind turbine foundations as well as the company's exceptional manufacturing capabilities and its long-term strategic vision. The presentation aims to showcase the latest advancements in offshore wind technology and highlights HSG Sungdong's unique approach to these innovations.

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## THE 43rd KOREA ENERGY SHOW



### **KIND INVITATION FROM HSGSD**

The Korea Energy Show serves as a vital venue for presenting cutting-edge technologies and solutions within the energy industry, fostering significant discussions and collaborations across the related sectors.

This year's event will feature participation from government officials, representatives from the International Energy Agency (IEA), foreign energy ministers, officials from the Ministry of Trade, Industry and Energy, officials from Busan city, and representatives from the Korea Chamber of Commerce and Industry. The show will focus on emphasizing the importance of green energy, exploring future directions and policies for new energy solutions, by discussing various agendas for sustainable energy development.

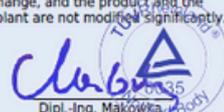
The booth will be located at B-142 in the Clean Energy Hall 1 in BEXCO. The display will feature key items related to offshore wind turbine foundation manufacturing, complemented by various interactive programs for attendees. These programs will include a quiz show about the HSG Sungdong, personal protective equipment (PPE) trial experiences, and a virtual yard tour using QR codes.

Attendees are expected to have the opportunity to enhance their understandings of the offshore wind turbine foundation manufacturing process and the market through the engaging programs. The QR code-based yard tour will offer a virtual glimpse into HSG Sungdong's actual production facilities, providing a practical insights for the fabrication process.

Through the participation in this exhibition, HSG Sungdong aims to further highlight its ongoing achievements and technological innovations in the offshore wind industry, thereby strengthening its position in the global market.

## OFFSHORE WIND PROJECT

### FURTHERLY SECURED QUALITY

<h1>CERTIFICATE</h1> <p>Conformity of the Factory Production Control</p> <p><b>0035-CPR-1090-1.03598.TÜVRh.2024.001</b></p> <p><small>In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the following construction product:</small></p>	
<b>Construction product</b>	<b>Structural components and kits for steel structures to EXC4 according to EN 1090-2</b>
<b>Intended use</b>	for load-bearing structures in all types of buildings
<b>CE - marking method</b>	ZA.3.2 and ZA.3.4 acc. to EN 1090-1:2009+A1:2011  produced by or for
<b>Manufacturer</b>	<b>HSG Sungdong Shipbuilding Co., Ltd.</b>  940 Gongdan-ro Gwangdo-myeon Tongyoung-si, Gyeongsangnam-do REPUBLIC OF KOREA
<b>Manufacturing plant</b> <small>Production facility of the manufacturer</small>	HSG Sungdong Shipbuilding Co., Ltd. 940 Gongdan-ro Gwangdo-myeon Tongyoung-si, Gyeongsangnam-do REPUBLIC OF KOREA
<b>Confirmation</b>	This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the harmonised standard <b>EN 1090-1:2009+A1:2011</b> under system 2+ are applied, and that the factory production control fulfills all the prescribed requirements stated therein.
<b>Date of first issue</b>	02.07.2024
<b>Next Surveillance audit</b>	01.07.2025
<b>Period of validity</b>	This certificate will remain valid as long as the test methods and/or the factory production control requirements included in the harmonised standard used to assess the performance of the declared characteristics do not change, and the product and the manufacturing conditions in the plant are not modified significantly.
<b>Remarks</b>	see reverse
<b>Place and date of issue</b>	Cologne, 02.07.2024 Ha-Yeong Jeong  Dipl.-Ing. Makowka

By obtaining both the EN-1090-1 and EN-1090-2 certifications, HSG Sungdong has demonstrated its adherence to the highest European quality and safety standards, specifically in the demanding field of manufacturing offshore wind foundations.

The certification process conducted by the esteemed TÜV Rheinland from June 11th to June 13th, 2024 involved a rigorous audit assessing compliance with Execution Class 4 (EXC 4), the most stringent classification within the EN-1090 standards.

Over the three-day evaluation, TÜV Rheinland meticulously examined HSG Sungdong's operational processes, with a particular focus on Factory Production Control (FPC) and Initial Type Testing (ITT).

HSG Sungdong navigated this intensive scrutiny with commendable results, passing the audit without any major non-conformance issue.

With this certification, HSG Sungdong is now authorized to affix CE Markings to its products and issue Declarations of Performance (D.O.P.), further ensuring the reliability and quality of its products.

In July 2024, HSG Sungdong proudly achieved a landmark certification, securing the EN-1090 (CPR 305-2011) accreditation.

This pivotal accomplishment empowers the company to manufacture and export steel structural components across the European Union (EU), enhancing its ability to deliver superior quality and reliability in the construction sector.

The EN-1090 certification, governed by the EU's Construction Product Regulation (CPR), is a crucial standard for construction products that are permanently installed within EU member states.

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OFFSHORE WIND PROJECT

FURTHERLY SECURED QUALITY



The EN-1090 certification not only augments the HSG Sungdong’s export potentials but also solidifies its position as a leading force in the global offshore wind industry.

The milestone represents a significant expansion of HSG Sungdong's competitive edge, reinforcing its dedication to delivering top-quality, safe, and reliable products.

Looking forward, HSG Sungdong is enthusiastic about leveraging this certification to explore new opportunities, drive innovation, and continue advancing its reputation for excellence.

This achievement underscores HSG Sungdong's unwavering commitment to excellence and adherence to the highest standards in offshore wind foundations.

Confident in its enhanced capabilities, HSG Sungdong is poised to tackle the most ambitious and sophisticated projects within the European market and beyond.

HSG Sungdong remains committed to setting new benchmarks in the industry, demonstrating its capacity to meet and exceed the exacting requirements of European regulations and international clients.

## SHIP REPAIR SERVICES



### PHILIPPINE NAVY MRO SERVICE

On July 25th, a state-of-the-art frigate of the Philippine Navy the BRP Antonio Luna had successfully set sail from HSG Sungdong's yard after a comprehensive 37-day maintenance and repair period. The vessel arrived at the yard on the 19th of June, where it underwent extensive maintenance, repair, and overhaul (MRO) operations, including essential painting and outfitting repairs. This project marked the collaboration between HD Hyundai Heavy Industries and HSG Sungdong, and the successful completion of the task has further solidified the partnership between the organizations.

The yard utilized 320-meter-long and 67-meter-wide floating dock that has an impressive lifting capacity of 80,000 tons and a 1.93 km-long quay to carry out the necessary works.

Looking forward, HSG Sungdong plans to leverage this success to expand its footprint in both domestic and international MRO markets. With the combined technical expertise of HD Hyundai Heavy Industries and HSG Sungdong, the yard is poised to establish itself as a reliable global partner in MRO services.

**ESG INITIATIVES****SAFETY ENHANCEMENT**

On June 27th, 2024, Ørsted organized a Supplier Safety Day seminar at the Clarion Hotel in Copenhagen, Denmark. This significant event brought together Ørsted executives and representatives from partner companies to address and enhance safety culture across the supply chain.

The seminar highlighted the crucial role of leadership in cultivating a robust safety culture. Keynote speakers stressed the importance for leaders within supplier organizations to prioritize safety as a core value and drive its integration throughout all operational processes. Additionally, the necessity of standardized safety procedures was emphasized to ensure consistency across every stage of operation.

A major focus of the discussions was accident prevention and the effective use of data derived from safety incidents.

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## ESG INITIATIVES



### **SAFETY ENHANCEMENT**

Participants concurred that deriving lessons from both accidents and near-misses is essential for improving safety performance. Systematic analysis of safety data enables organizations to address immediate risks and implement proactive measures to prepare for future challenges.

The seminar also covered the enhancement of collaboration between Ørsted and its suppliers. Strategies for improving cooperation and communication were explored, with an emphasis on the need for a unified commitment to safety through open dialogues and effective team works. The safeguarding of both physical and mental health of workers was identified as a fundamental aspect of a strong safety culture.

Looking ahead, the seminar addressed the importance of forward-thinking risk management strategies. As industries evolve and new risks emerge, Ørsted and its partners are committed to developing actionable and effective safety plans to anticipate and mitigate potential hazards.

HSG Sungdong was represented by the executive director and part leader of ESG Team. Insights from the seminar will be utilized to advance safety awareness and culture in HSG Sungdong.

HSG Sungdong is dedicated for safety best practices to participate as a Zero-accident partner by continuously striving to enhance safety standards.