

Press Release

IGI Poseidon and Corinth Pipeworks Join Forces to Shape the Future of Hydrogen Transportation

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IGI Poseidon, a joint venture between Greece's DEPA International Projects and Italy's Edison S.p.A., and Corinth Pipeworks, global leader in steel pipe manufacturing and pipeline solutions, are proud to announce their collaboration to advance the safe and efficient transportation of hydrogen through high-pressure offshore pipelines. This partnership reflects a shared commitment to address one of the key challenges of the green energy transition: enabling hydrogen to become a reliable, scalable energy carrier.

As the global transition to clean energy accelerates, hydrogen has emerged as a cornerstone of sustainable energy strategies. Its unique potential to decarbonize industries and energy systems makes it invaluable, but transporting hydrogen, especially under high-pressure conditions, needs additional engineering and material understanding. IGI Poseidon and Corinth Pipeworks are tackling this challenge through a shared commitment to innovation and expertise.

*"At IGI Poseidon we are constantly working to develop infrastructures that support the energy needs of the future" said **Fabrizio Mattana, CEO at IGI Poseidon.** "Our collaboration with Corinth Pipeworks is an important step to create robust technical foundations for ensuring hydrogen's role in the clean energy transition."*

Konstantinos Xifaras, Chairman of the Board at IGI Poseidon, emphasized the importance of the partnership: *"Partnering with Corinth Pipeworks brings together cutting-edge materials expertise and a shared commitment to sustainability. Together, we are setting the stage for a new chapter in energy transportation, addressing the complexities of hydrogen infrastructure with confidence and innovation."*

Corinth Pipeworks, leading steel pipe manufacturer brings unmatched expertise to the initiative. *"We continuously advance our capabilities and expertise delivering value with responsibility to our customers. Contributing to the energy transition and low carbon fuels is an integral part of our company's vision" commented **General Manager, Ilias Bekiros at Corinth Pipeworks.***

The joint initiative focuses on extensive testing campaign of carbon steel linepipe (X70), currently used for natural gas offshore transportation, in 100% hydrogen environment and under high-pressure. Specifically, the qualification of the pipeline has been performed simulating severe operation conditions to evaluate the effect of hydrogen on material mechanical properties, thorough a set of different tests and analysis which include slow strain rate tensile test (SSRT), fracture toughness (FT), fatigue crack growth rate (FCGR) and a preliminary Engineering Critical Assessment (ECA) at high pressure.

These activities aim to define and verify the Hydrogen Readiness of the steel material for offshore natural gas application at high pressure (200-300 bar), reaching new boundaries in the realization of energy interconnectors.

This initiative highlights the critical role of partnerships in driving technological advancements in hydrogen infrastructure. Together, IGI Poseidon and Corinth Pipeworks are laying the groundwork for a sustainable energy future, aligning with Europe's green energy goals and reinforcing its position as a leader in innovation.

The first results of this campaign will be presented in 2025.