



2024-
2025

PRESS REVIEW



VINCI Construction Grands Projets

GEOCEAN

2024-2025

SUMMARY

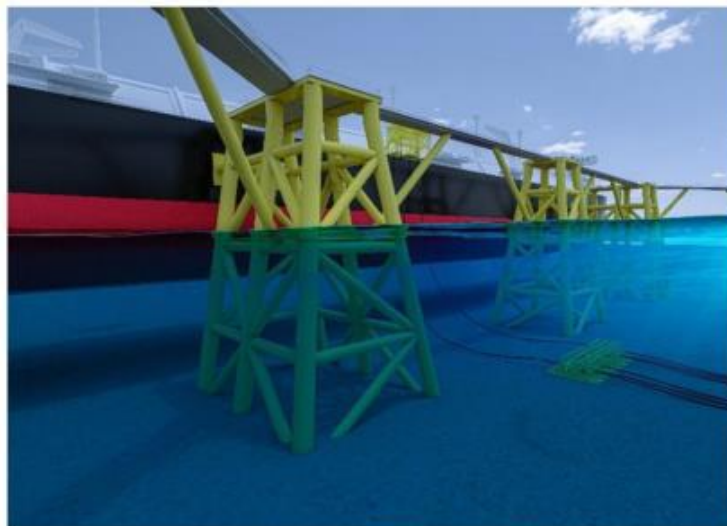
- **12/2024 : Iploca News letter/** *Geocean completes offshore work on Wilhelmshaven LNG terminal in Germany*
- **18/11/2024 :** *LNG Prime/ Geocean kicks off work on Congo FLNG mooring project*
- **13/10/2024 :** *Tahiti Infos/ Lancement des travaux du nouvel émissaire de la station d'épuration à Punaauia et de son poste de refoulement*
- **13/10/2024 :** *TNTV News/ Les travaux lancés à la station d'épuration de Punaauia*
- **11/10/2024 :** *lapresidence.fr/ Lancement des travaux du nouvel émissaire de la station d'épuration à Punaauia*
- **4/10/2025 :** *INSPENET/ Breakthrough in Germany: LNG terminal in Wilhelmshaven is ready for supply*
- **3/10/2024** *Offshore Energy/ With installation ops done, Germany's new LNG terminal ready for FSRU connection to gas grid*
- **30/09/2024 :** *Offshore Energy/ Van Oord puts 600-meter-long FSRU jetty together for Germany's LNG terminal*
- **25/09/2024 :** *WATCH: French firm finishes subsea installation work at Germany's LNG terminal with single lift*
- **17/09/2024 :** *Offshore Energy/ French firm's barge in fifth gear for Germany's Wilhelmshaven 2 LNG terminal*
- **12/09/2024 :** *LNG Prime/ Geocean completes offshore work on second Wilhelmshaven LNG terminal in Germany*
- **10/09/2024 :** *Portnews/ GEOCEAN supports the installation of the IQuay ready-to use solution for importing LNG to Wilhelmshaven*
- **9/08/2024:** *Energy Capital Power/ Republic of Congo : Geocean secures Marine XII FLNG Contract*

- **29/07/2024** : Energia Africa/ Congo-Brazzaville : *La Ruée vers l'or-gazier attire le français Geocean*
- **29/07/2024** : Benin Time Info/ *Geocean participe à la phase 2 du projet Congo LNG en Afrique : un nouveau succès pour le gaz en Congo-Brazzaville*
- **29/07/2024** : La Nouvelle Tribune/ *Gaz en Afrique : ce groupe français se frotte les mains*
- **24/07/2024** : Offshore Energy / *Chinese firm taps French player for FLNG mooring job in Africa and boosts its fabrication capacity for floating facilities*
- **26/07/2024** : Upstream/ *French player lands key contract on Eni's Congo FLNG project*
- **18/06/2024** Energy OMNI : *OMNI Features / Installation of Germany's Wilhelmshaven 2 LNG Terminal Assigned to Norwegian and French Companies Firms*
- **14/06/2024**: Offshore Energy / *Installation jobs for Germany's Wilhelmshaven 2 LNG terminal go to Norwegian and French firms*

[IPLOCA Newsletter 101 by Pedemex BV - Issuu](#)

Geocean completes offshore work on Wilhelmshaven LNG terminal in Germany

Geocean, which is part of VINCI Construction Grands Projets, has successfully completed the installation of three TCP pipelines and a power cable to connect Excelerate Energy's floating storage regasification unit (FSRU) to terrestrial facilities. The offshore FSRU terminal project

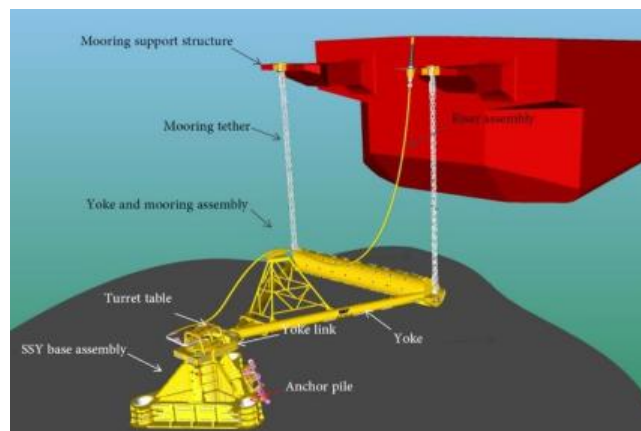


installed in Wilhelmshaven, Germany is a joint venture between ENGIE and TES (Tree Energy Solution). Geocean has been chosen to carry out this fast-track installation project, enhancing the country's infrastructure and energy security. The company worked on the connection to the FSRU, the anchoring system, and the subsea equipment. This infrastructure was installed 1.7 km from the shore at a depth of 14 metres. Geocean deployed its FAST-FLEX barge solution, one of its four types of modular barges. These modular barge solutions are tailored to the specific needs of each project and designed to streamline installation operations and cut the cost of offshore installation projects. This project represents a major development in the company's offshore installation capabilities.

<https://lngprime.com/corporate/sponsored-content/geocean-kicks-off-work-on-congo-flng-mooring-project/130242/>

Geocean kicks off work on Congo FLNG mooring project

By [LNG Prime Staff](#)



French marine and offshore contractor, Geocean, a VINCI Construction Grands Projets unit, has started working on a new contract it recently won from China's Wison New Energies for Eni's FLNG project in Congo.

Geocean signed an agreement with Wison New Energies to transport and install the mooring system as part of the FLNG infrastructure on the Marine XII block in Congo.

This strategic FLNG project aims to harness the significant gas reserves of this block to bolster Congo's energy sector by producing LNG for domestic and export needs while adopting low-carbon technologies.

The project site will be located off the coast of Congo in 33-meter water depth.

Geocean says the mooring system will consist of a submerged swivel and yoke (SSY) engineered, procured, fabricated, and delivered by NOV APL.

First quarter of 2025

Geocean will complete the installation of the FLNG's mooring system in two phases.

The pre-installation of the SSY anchor piles will be done by using a jack-up barge to set the anchor piles at the site using drilling and grouting techniques.

Also, Geocean will complete the transport and installation of the SSY system on the seabed using a heavy lift vessel specially mobilized for this operation.

The work, which leverages Geocean's advanced technical expertise and capabilities, is expected to be completed during the first quarter of 2025.

Congo FLNG project

Wison New Energies secured a contract from Italy's Eni in December 2022 to build a 380-meter-long FLNG.

The FLNG will have a production capacity of 2.4 million metric tonnes of LNG per year, with storage capacities exceeding 180,000 cbm of LNG, 45,000 cbm of liquefied petroleum gas (LPG), and also 18,000 cbm of condensate.

Eni's Congo project will reach an overall LNG production capacity of 3 million metric tonnes or 4.5 billion cubic meters annually from 2025.

Besides this FLNG, the Congo project features a smaller unit, Tango FLNG.

Eni shipped the first LNG cargo from its Tango FLNG moored in Congolese waters in February this year.

Delivered by Wison New Energies in 2017, Tango FLNG has a liquefaction capacity of about 1 billion cubic meters per year of gas, or 0.6 million metric tonnes of LNG, and a storage capacity of 16,100 cbm.

Second large LNG project for Geocean this year

This project follows Geocean's recently [completed contract](#) on the offshore part of the second FSRU-based LNG import project in Wilhelmshaven, Germany.

Norway's EConnect Energy contracted Geocean to support them in installing the IQuay ready-to-use solution for importing LNG to Wilhelmshaven.

With 40 years of experience in complex offshore projects, Geocean also previously worked on several other offshore LNG terminals.

The projects include the Moheshkhali LNG terminal and the Summit FSRU terminal in Bangladesh.

[Lancement des travaux du nouvel émissaire de la station d'épuration à Punaauia et de son poste de refoulement \(tahiti-infos.com\)](https://tahiti-infos.com)

Lancement des travaux du nouvel émissaire de la station d'épuration à Punaauia et de son poste de refoulement



Tahiti le 13 octobre 2024. La cérémonie de pose de la première pierre du nouvel émissaire de la station d'épuration de Matatia, située à Punaauia et gérée par la SEM Vaitama, également connue sous le nom de SEM Assainissement des eaux de Tahiti s'est déroulée en fin de semaine.

Entièrement financé par le Pays, ce projet marque une étape majeure dans l'amélioration des infrastructures d'assainissement de la commune, tout en renforçant la protection de l'écosystème marin local.

Mise en service en 2002, la station d'épuration de Punaauia fait partie des premières installations de ce type en Polynésie française, reflétant l'engagement précoce de la commune dans la gestion des eaux usées. Le projet de renouvellement de l'émissaire et du poste de refoulement a pour objectif d'accroître la capacité et l'efficacité du système d'assainissement, en garantissant un traitement optimal des eaux usées tout en préservant l'équilibre de l'écosystème local.

Les travaux sont répartis en deux lots distincts :

- Lot 1 : Rénovation de l'émissaire sous-marin
La société **GEOCEAN** débutera les travaux sous-marins le 3 octobre 2024. Ces interventions, encadrées par le groupement EGIS/NEOSEA, respectent des normes techniques et écologiques rigoureuses. Ce chantier, dont le montant s'élève à 1 249 547 080 F CFP HT, est intégralement financé par le Pays.

- Lot 2 : Modernisation du poste de refoulement et de la chambre de maintenance
Ce second lot, pris en charge par le groupement JL Polynésie et Polynésienne des Eaux, concerne la partie terrestre du projet, avec la mise à niveau des équipements permettant une meilleure gestion des eaux usées. Le coût des travaux s'élève à 540 millions de francs, entièrement couvert par le Pays.

Un Plan de Gestion de l'Environnement (PGE), élaboré par le bureau d'études **GEOCEAN**, a été mis en place afin de minimiser l'impact environnemental des travaux sur le littoral et l'écosystème marin. Ce plan garantira une gestion responsable du chantier, en sensibilisant l'ensemble des équipes aux enjeux environnementaux.

Les travaux maritimes, soumis aux aléas climatiques, ont été soigneusement planifiés afin d'optimiser les périodes d'intervention en mer. Les représentants de **GEOCEAN**, présents sur le territoire du 3 au 13 octobre, veilleront au bon déroulement des opérations maritimes cruciales, en tenant compte des prévisions climatiques afin d'assurer une exécution sans retard. La sécurité des équipes et la protection de l'environnement sont des priorités absolues. La mission de coordination en Sécurité et Protection de la Santé (SPS) sera assurée par le Bureau Veritas, garantissant le respect des normes de sécurité, des procédures techniques, et des mesures de prévention des risques tout au long du chantier.

Rédigé par Bertrand PREVOST le Dimanche 13 Octobre 2024 à 11:26 | Lu 1910 fois

[Les travaux lancés à la station d'épuration de Punaauia](#) • TNTV Tahiti Nui Télévision

Les travaux lancés à la station d'épuration de Punaauia

Bientôt un nouvel émissaire pour la station d'épuration de Matatia à Punaauia. La pose de la première pierre a eu lieu cette semaine. Le projet est entièrement financé par le Pays.

Publié le 13/10/2024 à 14:47 - Mise à jour le 13/10/2024 à 15:39



Crédit : présidence de la Polynésie

Mise en service en 2002, la station d'épuration de Punaauia fait partie des premières installations de ce type en Polynésie française. « Le projet de renouvellement de l'émissaire et du poste de refoulement a pour objectif d'accroître la capacité et l'efficacité du système d'assainissement, en garantissant un traitement optimal des eaux usées tout en préservant l'équilibre de l'écosystème local », indique un communiqué du Pays.





L'an dernier, l'émissaire avait été endommagé et des eaux souillées avaient été rejetées dans le lagon de Punaauia. Une situation qui n'était pas nouvelle. Dans un rapport, la Chambre territoriale des comptes avait pointé, « des défauts de conception de l'émissaire ».

Le projet lancé cette semaine se déroulera en deux phases :

- PUBLICITE -

- **Lot 1 : Rénovation de l'émissaire sous-marin**

La société GEOCEAN a débuté les travaux sous-marins le 3 octobre 2024. Ces interventions sont encadrées par le groupement EGIS/NEOSEA. Ce chantier, dont le montant s'élève à 1 249 547 080 F CFP HT, est intégralement financé par le Pays.

- **Lot 2 : Modernisation du poste de refoulement et de la chambre de maintenance**

Ce second lot, pris en charge par le groupement JL Polynésie et Polynésienne des Eaux, concerne la partie terrestre du projet, avec la mise à niveau des équipements permettant une meilleure gestion des eaux usées. Le coût des travaux s'élève à 539 956 862 F CFP HT, entièrement couvert par le Pays.

« Un Plan de Gestion de l'Environnement (PGE), élaboré par le bureau d'études GEOCEAN, a été mis en place afin de minimiser l'impact environnemental des travaux sur le littoral et l'écosystème marin. Ce plan garantira une gestion responsable du chantier, en sensibilisant l'ensemble des équipes aux enjeux environnementaux », précise le communiqué officiel.

Lancement des travaux du nouvel émissaire de la station d'épuration à Punaauia

11 octobre 2024



- [Voir l'image agrandie](#)

Lancement des travaux du nouvel émissaire de la station d'épuration à Punaauia et de son poste de refoulement

Taivini TEAI, ministre de l'Agriculture, des Ressources marines et de l'Environnement, a participé à la cérémonie de pose de la première pierre du nouvel émissaire de la station d'épuration de Matatia, située à Punaauia et gérée par la SEM Vaitama, également connue sous le nom de SEM Assainissement des eaux de Tahiti.

Cet événement a réuni plusieurs personnalités, dont le maire de la commune, Simplicio LISSANT, ainsi que des membres de la direction de la SEM, Nicolas BERTHOLON, président de la SEM Vaitama. Étaient également présents des représentants des entreprises responsables des travaux et de l'exploitation de la station, notamment Mathieu DESETRES, directeur de la Polynésienne des eaux, ainsi que les représentants des sociétés GEOCEAN et JL Polynésie.

Entièrement financé par le Pays, ce projet marque une étape majeure dans l'amélioration des infrastructures d'assainissement de la commune, tout en renforçant la protection de l'écosystème marin local.

Mise en service en 2002, la station d'épuration de Punaauia fait partie des premières installations de ce type en Polynésie française, reflétant l'engagement précoce de la commune dans la gestion des eaux usées. Le projet de renouvellement de l'émissaire et du poste de refoulement a pour objectif d'accroître la capacité et l'efficacité du système d'assainissement, en garantissant un traitement optimal des eaux usées tout en préservant l'équilibre de l'écosystème local.

Le projet en deux phases

Les travaux sont répartis en deux lots distincts :

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Préservation de l'environnement et sécurité des opérations

Un Plan de Gestion de l'Environnement (PGE), élaboré par le bureau d'études GEOCEAN, a été mis en place afin de minimiser l'impact environnemental des travaux sur le littoral et l'écosystème marin. Ce plan garantira une gestion responsable du chantier, en sensibilisant l'ensemble des équipes aux enjeux environnementaux.

Les travaux maritimes, soumis aux aléas climatiques, ont été soigneusement planifiés afin d'optimiser les périodes d'intervention en mer. Les représentants de GEOCEAN, présents sur le territoire du 3 au 13 octobre, veilleront au bon déroulement des opérations maritimes cruciales, en tenant compte des prévisions climatiques afin d'assurer une exécution sans retard. La sécurité des équipes et la protection de l'environnement sont des priorités absolues. La mission de coordination en Sécurité et Protection de la Santé (SPS) sera assurée par le Bureau Veritas, garantissant le respect des normes de sécurité, des procédures techniques, et des mesures de prévention des risques tout au long du chantier.

[With installation ops done, Germany's new LNG terminal ready for FSRU connection to gas grid \(Video\) - Offshore Energy \(offshore-energy.biz\)](#)

With installation ops done, Germany's new LNG terminal ready for FSRU connection to gas grid (Video)

[BUSINESS DEVELOPMENTS & PROJECTS](#)

October 3, 2024, by Melisa Čavčić

Norway's technology company EConnect Energy is nearing the last mile of the installation work related to a jettyless ready IQuay solution for liquefied natural gas (LNG) import to Germany's second terminal in Wilhelmshaven. As a result, the Norwegian player's French contractor, Geocan, has reached the end of its assignment on this project.



Installation works wrap up at Wilhelmshaven 2 LNG terminal; Source: Geocan

After FSRU Wilhelmshaven, a joint venture between **Tree Energy Solution (TES)** and **ENGIE**, [signed a contract](#) for installation works with **EConnect Energy**, following the execution of the supply contract, signed in 2022, to deliver a jettyless ready IQuay solution for the offshore jetty at Wilhelmshaven, **Geocan** was [hired to work](#) at the **Wilhelmshaven 2 LNG terminal**, which was scheduled to begin commercial operations in the second half of 2024.

Afterward, the French firm [began the initial stage of the project](#) to install a 1.7-kilometer-long gas import pipeline 14 meters under the sea, directly connecting the floating storage and regasification unit (FSRU) **Excelsior**, owned by the U.S.-based **Excelerate Energy**, to the German grid, as well as to deliver the complete installation services to the FSRU Wilhelmshaven for the IQuay.

Geocan unloaded three of the six thermo composite pipes (TCP) reels at the Eurogate terminal and loaded the pipeline end manifolds and flexible riser hoses on board the **Fast-Flex** barge. With TCP lines [connected to the gas grid](#) at the shore, the subsea pipeline end manifold (PLEM) installation came up next on the firm's agenda, as part of the jettyless IQuay F-Class to fast-track LNG.

Since the first PLEM installation was complete, the French firm's Fast-Flex barge reached the FSRU jetty, and the TCP laying operation into the pre-trench was also done. The company then installed the second TCP line, its PLEM, and the power cable at the Wilhelmshaven LNG terminal project.

Geocean, which approached the conclusion of its assignment in Wilhelmshaven, has installed the last three TCP lines using its Fast-Flex barge, terminated by the second PLEM, which are parts of the jettyless IQuay F-Class, described as an original configuration by EConnect Energy for fast track LNG projects. The power and fibre optical cable was also installed between the mooring jetty and the shore.

"This final milestone concludes Geocean's installation work on this new LNG terminal, provided by EConnect Energy, enabling Germany to secure and diversify its gas supply," highlighted the French firm.

Installation of the last three TCP lines using Geocean's Fast-Flex barge

WATCH VIDEO

EConnect Energy also confirmed the installation of the final three TCP lines, capped by the second PLEM, which forms part of its configuration for fast-tracked LNG importation. With the power and fiber-optic cables installed between the mooring jetty and the shore, the firm claims that the flowline system is now ready for the arrival of the FSRU and its connection to the gas grid.

While pointing out that it is approaching the final installation phase of the jettyless IQuay F-Class at Wilhelmshaven, the Norwegian player underlined: *"This milestone marks the completion of installation work for this new LNG terminal, positioning Germany to further secure and diversify its gas supply!"*

The wrap-up of installation work comes shortly after **Van Oord** [assembled](#) the FSRU jetty destined for the LNG terminal operated by **Deutsche Energy Terminal (DET)**, part of the German Federal Ministry for Economic Affairs and Climate Action and a state-owned operator of four terminals.

<https://inspenet.com/en/noticias/lng-terminal-completed-in-germany/>

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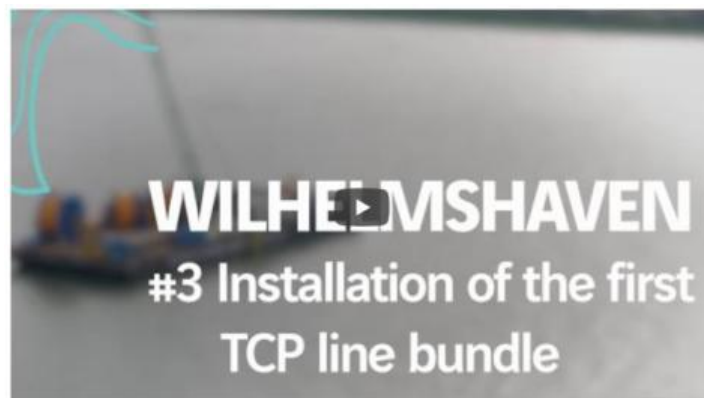
Breakthrough in Germany: LNG terminal in Wilhelmshaven is ready for supply

The facility will enable Germany to secure and diversify its gas supply.

[Isbel Lázaro.](#)

The [Liquefied Natural Gas \(LNG\) terminal](#) project in Wilhelmshaven, Germany, has reached a milestone with the installation of [essential infrastructure](#). [Geocean](#), a specialist marine project company, has led the operations in collaboration with EConnect Energy, implementing the innovative [IQuay F-Class jetty-less solution](#), designed to facilitate rapid connection of floating storage and regasification units (FSRUs) to the gas grid.

In just 15 days, [Geocean](#) transformed a simple barge into a cutting-edge tool, completing the installation of a 1.7 km [gas pipeline](#) 14 metres below sea level. This pipeline connects the FSRU Hoegh Speranza to the German gas grid and is part of the IQuay system infrastructure. Crucial to reinforcing the country's energy security, the project enables the fast and flexible import of [LNG](#), a vital source for diversifying gas supply.



TCP: vital in the construction of the LNG terminal

One of the keys to success has been the use of Strohm's thermo-composite pipes (TCP), which, thanks to their [corrosion resistance](#) and lightness, offer a faster and more efficient installation compared to traditional [steel pipes](#). These pipes have already been used to connect the Excelerate Excelsior FSRU to the onshore

infrastructure. Throughout September 2024, the first TCP package was installed under harsh climatic conditions, highlighting the flexibility and adaptability of this technology.

6 spools of Thermo Composite Pipes (TCP) were used to connect the Excelerate Excelsior FSRU to the onshore site. Source: Geocean

On 2 October 2024, **Geocean** announced the installation of the last TCP line, as well as the electrical and fibre optic cabling connecting the terminal to the port. This progress marks the culmination of the project, which not only secures gas supplies for Germany, but also strengthens its ability to respond to fluctuations in the global energy market.

<https://www.offshore-energy.biz/van-oord-puts-600-meter-long-fsru-jetty-together-for-germanys-lng-terminal/>

Van Oord puts 600-meter-long FSRU jetty together for Germany's LNG terminal

[BUSINESS DEVELOPMENTS & PROJECTS](#)

September 30, 2024, by Melisa Čavčić

Dutch marine contractor Van Oord has assembled a floating storage and regasification unit (FSRU) jetty at Wilhelmshaven, Germany for Deutsche Energy Terminal (DET), the German state-owned operator of four terminals.



Van Oord completes FSRU jetty at Wilhelmshaven in Germany; Source: Van Oord

The construction completion milestone for the FSRU jetty at Wilhelmshaven, managed by FSRU Wilhelmshaven, a joint venture between ENGIE and TES, comes eight months after Van Oord [confirmed the contract](#) to build the vessel running on LNG, as this is seen as a more sustainable alternative to marine gas oil (MGO), reducing sulfur, particulate, and nitrogen dioxide emissions.

The Dutch player, responsible for the procurement and construction of the FSRU jetty, installed ten monopiles, including scour protection to prevent erosion. Afterward, the foundations were equipped with platforms, catwalks, and furniture. The **Vox Apolonia** trailing suction hopper dredger was then deployed to dredge the berth pocket and turn the basin to the required depth.

By leveraging Van Oord's experience in dredging, infrastructure, and offshore energy, the company and its client are said to have developed a tailor-made integrated solution for the project, resorting to the deployment of monopiles, mainly used for offshore wind turbines, as the foundation for the new 600-meter-long jetty.



Van Oord finishing FSRU jetty at Wilhelmshaven in Germany; Source: Van Oord

Stan Aarts, Van Oord's Project Director, commented: *"We are incredibly proud of this achievement. The project is a perfect example of Van Oord's marine ingenuity. Our project team's expertise and dedication, combined with our cutting-edge equipment, allowed us to develop a custom integrated marine infrastructure solution that addressed our client's challenge and successfully construct this jetty."*

The construction of the FSRU jetty was among the priority projects backed by Germany's LNG Acceleration Act, [passed in May 2022](#) to plug the supply gap and bolster the country's security of supply when it comes to energy. According to Van Oord, the need to meet the growing energy demand makes it crucial to have energy facilities that are both efficient and safe.

After FSRU Wilhelmshaven [signed a contract](#) for installation works with **EConnect Energy** to deliver a jettyless ready IQuay solution for the offshore jetty at Wilhelmshaven, **Geocean** was [hired to work](#) at the **Wilhelmshaven 2 LNG terminal**, which was scheduled to begin commercial operations in the second half of 2024.

WATCH: French firm finishes subsea installation work at Germany's LNG terminal with single lift

BUSINESS DEVELOPMENTS & PROJECTS

September 24, 2024, by Melisa Čavčić

France's marine contractor **Geocean**, which is tasked with subsea installation work at the second liquefied natural gas (LNG) terminal in Wilhelmshaven developed by Germany's state-owned Deutsche Energy Terminal (DET), has hit a new milestone with the completion of the subsea installation of the first pipeline end manifold (PEM) in a single lift.



Installation of the PEM at Wilhelmshaven 2 LNG Terminal; Source: Geocean

Once FSRU Wilhelmshaven, a joint venture between **Tree Energy Solution (TES)** and **ENGIE**, signed a contract for installation works with **EConnect Energy**, following the execution of the supply contract, signed in 2022, to deliver a jettyless ready IQuay solution for the offshore jetty at Wilhelmshaven, **Geocean** was hired to work at the **Wilhelmshaven 2 LNG terminal**, which was scheduled to begin commercial operations in the second half of 2024.

With an LNG storage capacity of 138,000 cubic meters, the floating storage and regasification unit (FSRU) **Excelsior**, owned by the U.S.-based **Excelerate Energy**, will be deployed at this LNG terminal, which is currently under construction. The FSRU has an annual nameplate regasification capacity of 5 billion cubic meters of natural gas.

As a result, the French firm recently began the initial stage of the project to install a 1.7-kilometer-long gas import pipeline 14 meters under the sea, directly connecting the FSRU Excelsior to the German grid, as well as to deliver the complete installation services to the FSRU Wilhelmshaven for the IQuay.

As part of its scope related to the installation of the first thermo composite pipes (TCP) bundle for the jettyless IQuay F-Class solution for LNG import to Wilhelmshaven, Geoclean unloaded three of the six TCP reels at the Eurogate terminal and loaded the pipeline end manifolds and flexible riser hoses on board the **Fast-Flex** barge.

With TCP lines [connected to the gas grid](#) at the shore, subsea PLEM installation came up next on the firm's agenda, as part of the jettyless IQuay F-Class to fast-track LNG. Since the first PLEM installation was complete, the French firm's Fast-Flex barge reached the FSRU jetty, and the TCP laying operation into the pre-trench was also done.

Given the restrictions at the site, the company explains that TCP lines have been brought alongside the Fast-Flex barge and are connected to the PLEM, just like the flexible riser, which is also linked. **Geoclean** is adamant that this is one of the most critical and sensitive operations during the installation of the EConnect Energy IQuay F-Class. The firm is now heading to project completion.



The list of four LNG terminals on the German North Sea coast, which are operated by DET, part of the German Federal Ministry for Economic Affairs and Climate Action, encompasses [Wilhelmshaven 1](#), [Brunsbüttel](#), Wilhelmshaven 2, and [Stade](#). However, the last two are said to be under construction.

The European country's first floating terminal for importing LNG in Wilhelmshaven was officially [commissioned](#) for service in December 2022. [Fairplay Towage Group](#) has been picked as the towage provider for the floating LNG terminals in Brunsbüttel, Stade, and Wilhelmshaven.

The start-up of commercial operations of the Wilhelmshaven 2 LNG terminal will allow **KN Energies** to take the reins of the terminal's technical operation and maintenance infrastructure, including the berth -which [Van Oord got picked to construct](#) – its equipment, and the pipeline, the organization of technical teamwork, and the coordination of preventive actions.

[French firm's barge in fifth gear for Germany's Wilhelmshaven 2 LNG terminal - Offshore Energy \(offshore-energy.biz\)](#)

French firm's barge in fifth gear for Germany's Wilhelmshaven 2 LNG terminal

PROJECT & TENDERS

September 17, 2024, by Nadja Skopljak

As part of a contract with Norway's technology company EConnect Energy, French Geocan has picked up the thermo composite pipes (TCP) reels that will connect the FSRU to the onshore site as part of the second liquefied natural gas (LNG) terminal in Wilhelmshaven developed by German state-owned Deutsche Energy Terminal (DET).



Screenshot. Source: Geocan

To address energy security needs in Germany and Europe, the German Federal Ministry of Economics and Climate Protection picked Tree Energy Solution (TES) and ENGIE in early September 2022 to develop and implement a second LNG floating storage regasification unit (FSRU) in Wilhelmshaven.

FSRU Wilhelmshaven, a joint venture between TES and ENGIE, hired EConnect Energy to install a jettiless ready IQuay solution for LNG import to Wilhelmshaven, who then appointed **Geocan** for subsea installation work. EConnect's delivery will also enable the transfer between the FSRU Excelsior, owned by the U.S.-based Excelerate Energy, and shore.

Geocan is in charge of the on-site subsea installation of six 1,600-meter long TCP flowlines, two pipeline end manifold (PLEMs), associated risers, one power and one

1,800-meter fiber optic cable with its Fast-Flex barge solution to streamline installation operations.

The French company reported on September 9 that it had kicked off the initial stage of the project, noting it was set to install a 1.7-kilometer-long gas import pipeline 14 meters under the sea, directly connecting the FSRU Excelsior to the German grid, as well as to deliver the complete installation services to FSRU Wilhelmshaven for the IQay.

Fast-Flex, [transformed from a simple barge into an installation vessel](#), was selected to bring together all the equipment needed for the pipeline installation.

On September 13, the French company announced that Fast-Flex had loaded six TCP reels at Strohm's manufacturing facilities in Ijmuiden, Netherlands, three seafastened on deck and three inside RDS systems, that will be used to connect the FSRU Excelsior to the onshore site. Pre-trenching operations are next on schedule.



The Wilhelmshaven 2 LNG terminal is slated to kick off commercial operations in the second half of 2024. DET operates four LNG terminals on the German North Sea coast, including [Wilhelmshaven 1](#), [Brunsbüttel](#), Wilhelmshaven 2, and [Stade](#), both currently under construction.

KN Energies [was picked to carry out](#) the preparatory work for the technical operation of the Wilhelmshaven 2 LNG terminal, with Van Oord [responsible for the construction](#) of the FSRU jetty.

Germany's first floating terminal for importing LNG in Wilhelmshaven was officially [commissioned](#) for service in December 2022.

LIEN / [Geocean completes offshore work on second Wilhelmshaven LNG terminal in Germany - LNG Prime](#)

Geocean completes offshore work on second Wilhelmshaven LNG terminal in Germany

By **LNG Prime Staff**
September 12, 2024



French marine and offshore contractor, **Geocean**, a unit of VINCI Construction Grands Projets, has completed its contract awarded by Norwegian technology company **EConnect Energy** on the offshore part of the second FSRU-based LNG import project in Wilhelmshaven, Germany.

EConnect Energy has contracted **Geocean** to support them in installing the IQ Quay ready-to-use solution for importing LNG to Wilhelmshaven. Geocean completed its work on the LNG project after nearly seven months on site.

Strengthening Germany's energy security

In 2022, EConnect Energy signed a contract with FSRU Wilhelmshaven, a joint venture between Belgium-based Tree Energy Solution (TES) and France's Engie. After that, EConnect selected Geocean to execute the offshore work for the second LNG import terminal in Wilhelmshaven.

State-owned DET (Deutsche Energy Terminal GmbH), which was established by Germany's Federal Ministry for Economic Affairs and Climate Action in January 2023 to operate FSRU-based LNG terminals, is the general client for all works, Geocean said. The second Wilhelmshaven LNG project is one of the priority projects supported by Germany's LNG Acceleration Law, passed in May 2022, to strengthen Germany's energy security by 2025.

Besides this terminal, DET's FSRU-based LNG terminals include the operational Wilhelmshaven 1 and Brunsbüttel facilities as well as the terminal in Stade.

The German government, supported by Uniper, RWE, TES, and Engie, chartered four FSRUs to serve these facilities as the fastest solution to enable Germany to start importing LNG in a record time.

One of these FSRUs is the 2005-built 138,000-cbm, Excelsior, and this vessel will serve the second Wilhelmshaven terminal.

Unlike the three other three DET FSRU-based terminals, Excelsior is the only FSRU that will be located offshore, making this project a unique development.

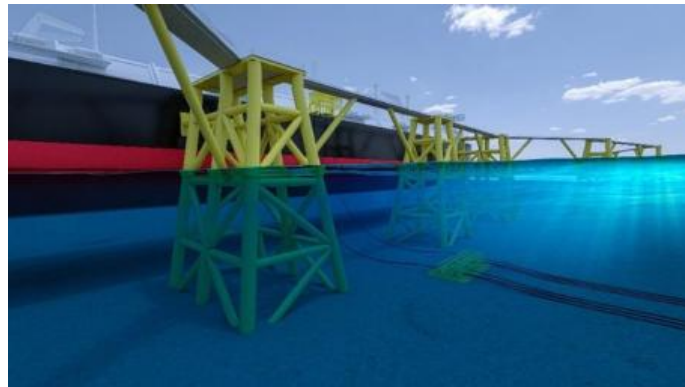
Excelsior will be moored at DET's new island jetty in Jade Bay and connected to the EConnect IQ Quay F-Class System.

This solution facilitates a rapid and reliable connection between the FSRU and the onshore facilities, reducing installation time and environmental impact.

FSRU anchoring and connection system

Geocean has worked with EConnect on designing and installing the pipeline connection from land to the FSRU, the anchoring system, and the subsea equipment.

The company installed these infrastructures 1.7km from the shore at a depth of 14m. Moreover, installation of Geocean's pipe system included 2 x 12" flexible hoses (60 m long), 2 x PLEM, 6 x 7" TCP pipe in a trench, assistance with FSRU connection and commissioning, and laying the power cable to supply the project with energy.



Geocean fast-flex solutions: a modular asset-free operating model

Geocean has developed four types of modular barges for an asset-free operating model:

- "Geocean Fast Pipe" Barge: for rigid pipeline laying
- "Geocean Fast Flex" Barge: adapted for flexible flowline laying
- "Geocean Fast Cable" Barge: for umbilical and power cable laying

- “Geocean Fast Support” Barge: for offshore lifting and pulling operations. These Geocean modular barge solutions, developed in-house, are tailored to the specific needs of each project and designed to streamline installation operations to be the most cost-effective to fit customer inquiries about complex offshore installation projects, Geocean said.

The company deployed its fast-flex barge solution for this project, which involved TCP pipe laying.

Geocean said the choice of the fast-flex barge solution emphasizes the project’s commitment to an execution plan marked by efficiency and solution tailor-made to fit the client’s need.



40 years of experience

Geocean previously worked on several offshore LNG terminals, including the Moheshkhali LNG terminal and the Summit FSRU terminal in Bangladesh.

This fast-track project marks a significant step in the company’s development of its capabilities for complex offshore installation services, Geocean said. The company has completed the complex fast-track project in Wilhelmshaven on time and under the highest offshore industry standards.

In addition, the key to success was found in Geocean team’s adaptability, cohesion, and expertise based on 40 years of complex marine projects track record delivered in the energy industry, Geocean concluded.

PORTNEWS

10/09/2024



<https://en.portnews.ru/news/367707/>

GEOCEAN supports the installation of the IQuay ready-to use solution for importing LNG to Wilhelmshaven

2024 September 10 18:00






EConnect Energy has contracted **GEOCEAN** to support the installation of the IQuay ready-to use solution for importing LNG to Wilhelmshaven, according to GEOCEAN's release.

In collaboration with EConnect Energy, **GEOCEAN** embarked on the installation of the jettyless IQuay infrastructure and pipelines connecting the FSRU Excelsior directly to the German grid.

GEOCEAN implemented its **GEOCEAN** Fast-Flex barge solution, which combines all the equipment needed to install this gas pipeline.

<https://energycapitalpower.com/republic-of-congo-geocean-secures-marine-xii-flng-contract/>

Republic of Congo: Geocean Secures Marine XII FLNG Contract

Connect with us:     

📅 August 9, 2024



Marine contractor Geocean has secured a contract with energy technology company Wison New Energies to install a mooring system for the FLNG unit on the Marine XII LNG project, offshore the Republic of Congo.

The **contract includes** the installation of a submerged swivel and yoke system, anchored by three drilled piles and connected to the FLNG via a flexible riser. The mooring system is slated for completion in the first quarter of 2025.

Situated approximately 50 km from Pointe Noire, energy supermajor Eni's Marine XII project is set to produce 2.4 million metric tons of LNG annually. Production is expected to increase to 4.5 billion cubic meters per year by 2026, with LNG output used for both domestic consumption and export.

[Chinese firm taps French player for FLNG mooring job in Africa and boosts its fabrication capacity for floating facilities - Offshore Energy \(offshore-energy.biz\)](#)

Chinese firm taps French player for FLNG mooring job in Africa and boosts its fabrication capacity for floating facilities

[PROJECT & TENDERS](#)

July 24, 2024, by Melisa Čavčić

China-based clean energy services provider **Wison New Energies (WNE)** has handed out a transport and installation contract to France's marine contractor **GEOCEAN** for a floating liquefied natural gas (FLNG) unit, destined to work on a project off the coast of Congo. In addition, the firm has struck a multi-year deal with a compatriot shipbuilding industry enterprise, which is set to expand its production and construction scale, enabling it to meet the surge in demand for floating natural gas facilities and clean energy solutions.



FLNG model; Source: Wison New Energies

GEOCEAN's latest transport and installation contract win is taking it to Congo where it will install the mooring system for Eni's second FLNG unit on the **Marine XII block**, which is set to significantly enhance the African country's energy sector by producing LNG for domestic and export needs.

According to the French player, the project involves installing a submerged swivel and yoke system (SSY) anchored via three drilled piles and one flexible riser connecting the SSY to the FLNG around 50 km from Pointe Noire. With a production capacity of 2.4 million metric tons of gas per year, the unit can store 180,000 m³ of LNG and 45,000 m³ of LPG.

“The completion of the mooring system installation is in sight in the first quarter of 2025. The work highlights GEOCEAN’s advanced technical expertise and capability to deliver complex offshore alternative solutions. We are proud to contribute to this significant development in Congo’s energy infrastructure,” explained the firm.

Eni’s Congo LNG project, which aims to unlock gas resources of the Marine XII project with the installation of two FLNG units at the **Nenè** and **Litchendjili** fields, is designed to have an overall LNG production capacity of 3 million tons per year or approximately 4.5 billion cubic meters per year from 2025.

Congo entered the LNG exporters’ club in February 2024, after the first FLNG unit, known as **Tango** with 0.6 million tons per annum (mtpa) capacity, [began its LNG deliveries](#). With a capacity of 2.4 mtpa, the second unit, [currently under construction](#), is slated to be in operation by the end of 2025.

Congo-Brazzaville : la ruée vers l'or-gazier attire le français Geocean

<https://energia-africa.com/congo-brazzaville-la-ruée-vers-lor-gazier-attire-le-français-geocean/>

[Jules Boa](#) juillet 30, 2024

Le Congo-Brazzaville confirme son statut de nouvel eldorado gazier en Afrique. La société française Geocean vient de remporter un contrat stratégique dans le cadre de l'ambitieux projet Congo LNG, piloté par Eni.

Geocean a été mandatée par Wison New Energies pour assurer le transport et l'installation d'un système d'amarrage essentiel pour une nouvelle plateforme flottante de liquéfaction de gaz naturel (FLNG). Ce système garantira la stabilité de la plateforme, condition sine qua non pour des opérations sûres et efficaces.

Ce projet d'envergure vise à propulser la production de gaz naturel liquéfié (GNL) du Congo-Brazzaville. La phase 2 de Congo LNG devrait permettre d'atteindre une production annuelle de 2,4 millions de tonnes, soit plus du double de la capacité actuelle. L'implication de **Geocean** et d'autres acteurs internationaux confirme l'attractivité du potentiel gazier congolais. Ce projet consolide la position du pays sur le marché mondial de l'énergie et ouvre la voie à de nouveaux investissements et partenariats stratégiques.

Grâce à ses technologies de pointe et à ses partenariats internationaux, le projet Congo LNG marque un tournant dans l'exploitation durable et efficace des ressources gazières du pays. Il témoigne de la confiance des investisseurs dans le potentiel du Congo-Brazzaville à devenir un acteur majeur du GNL. Le secteur gazier congolais a le pouvoir de dynamiser l'économie et de créer des emplois. Toutefois, il est crucial que ces projets soient menés de manière responsable, en respectant l'environnement et les droits des communautés locales, afin de garantir un développement durable et équitable.

TAGGED:[Congo-Brazzaville, or-gazie](#)

Lien : [Geocean participe à la phase 2 du projet Congo LNG en Afrique : un nouveau succès pour le gaz en Congo-Brazzaville - Benin Times Info](#)

Geocean participe à la phase 2 du projet Congo LNG en Afrique : un nouveau succès pour le gaz en Congo-Brazzaville

by [Marie Obasandjo, BeninTimes.info](#) 29 juillet 2024

Le Congo-Brazzaville se distingue par son potentiel gazier en plein essor, attirant l'attention de nombreux investisseurs internationaux, notamment de grandes entreprises françaises. Vendredi dernier, des informations ont circulé sur l'engagement de Geocean, une société maritime française, dans la phase 2 du projet Congo LNG dirigé par Eni.

Geocean a remporté un contrat avec la société chinoise Wison New Energies pour transporter et installer un système d'amarrage pour une nouvelle plateforme flottante de liquéfaction de gaz naturel (FLNG). Ce système vise à stabiliser la plateforme malgré les mouvements marins, assurant ainsi une opération sécurisée et efficace.

Ce projet d'envergure est crucial pour le développement du secteur gazier congolais. La phase 2 de Congo LNG vise à augmenter significativement la production de gaz naturel liquéfié (GNL) du pays. À terme, le projet devrait produire environ 2,4 millions de tonnes de GNL par an, plus du double du volume actuel de un million de tonnes de GNL par an.

L'implication de **Geocean** et d'autres entreprises internationales dans ce projet met en lumière l'attrait du potentiel gazier du Congo-Brazzaville. Cela représente non seulement une opportunité économique pour le pays, mais renforce également sa position sur le marché mondial de l'énergie. La réussite de ce projet pourrait ouvrir la voie à d'autres investissements et collaborations internationales, contribuant ainsi à la croissance et à la diversification de l'économie congolaise.

De plus, la participation d'entreprises telles que **Geocean** témoigne de la confiance des investisseurs dans le potentiel du Congo-Brazzaville à devenir un acteur majeur dans le domaine du gaz naturel liquéfié. Le projet Congo LNG, avec ses avancées technologiques et ses partenariats internationaux, constitue une avancée significative vers une exploitation durable et efficace des ressources gazières du pays.

Le secteur gazier au Congo-Brazzaville pourrait avoir des retombées positives sur le plan social et économique. Avec une vision appropriée, il pourrait créer des emplois et stimuler d'autres secteurs de l'économie. Cependant, il est crucial que ces projets respectent les normes environnementales et les droits des communautés locales pour garantir un développement équilibré et durable.

https://lanouvelletribune.info/2024/07/gaz-en-afrique-ce-groupe-francais-se-frotte-les-mains/#google_vignette

Gaz en Afrique : ce groupe français se frotte les mains

Amos Traoré- 29/07/2024

Le **Congo-Brazzaville**, se distingue par son potentiel gazier croissant, attirant l'intérêt de nombreux investisseurs internationaux, dont plusieurs grandes entreprises françaises.

Ce vendredi 26 juillet, des informations ont été relayées concernant l'engagement de **Geocean**, une compagnie maritime française, dans le cadre de la **phase 2 du projet Congo LNG, piloté par Eni**.

Geocean a été sélectionnée pour un contrat par la société chinoise **Wison New Energies**, dans le but de transporter et d'installer un système d'amarrage pour une nouvelle plateforme flottante de **liquéfaction de gaz naturel (FLNG)**. Ce système est conçu pour stabiliser la plateforme malgré les mouvements marins, garantissant ainsi une opération sûre et efficace.

Ce projet de grande envergure est crucial pour l'expansion du secteur gazier congolais. La phase 2 de Congo LNG vise à augmenter considérablement la production de **gaz naturel liquéfié (GNL)** du pays. À terme, il est prévu que le projet produise environ **2,4 millions de tonnes de GNL par an**, soit plus du double du volume actuellement produit, qui est d'un million de tonnes de GNL par an.

L'implication de Geocean et d'autres entreprises internationales dans ce projet souligne l'attractivité du potentiel gazier du Congo-Brazzaville. Ce projet est non seulement une opportunité économique pour le pays, mais il renforce également sa position sur le marché mondial de l'énergie. Son succès pourrait ouvrir la voie à d'autres **investissements et collaborations internationales**, contribuant ainsi à la croissance et à la diversification de l'économie congolaise.

En outre, la participation d'entreprises comme **Geocean** témoigne de la confiance des investisseurs dans le potentiel du Congo-Brazzaville à devenir un acteur majeur dans le secteur du gaz naturel liquéfié. Le projet Congo LNG, avec ses avancées technologiques et ses partenariats internationaux, représente un pas important vers l'exploitation durable et efficace des ressources gazières du pays.

Le secteur gazier au Congo-Brazzaville pourrait avoir des répercussions positives sur le plan social et économique. Avec une bonne vision, il est en mesure de créer des emplois en stimulant d'autres secteurs de l'économie. Cependant, il est essentiel que ces projets soient menés dans le respect des normes environnementales et des droits des communautés locales pour assurer un développement équilibré et durable.

Lien : [French player lands key contract on Eni's Congo FLNG project | Upstream \(upstreamonline.com\)](#)

French player lands key contract on Eni's Congo FLNG project

Geocean will install a submerged swivel and yoke system and flexible riser for the project

Asia Correspondent Singapore
Published 26 July 2024, 11:11

French marine company Geocean has signed a contract with China's Wison New Energies to transport and install the mooring system for a floating liquefied natural gas vessel destined for Eni Congo LNG project in Congo-Brazzaville.

Phase one of the Italian major's liquefaction scheme is already producing LNG via its Tango floating LNG vessel which has a capacity of 1 million tonnes per annum. Phase two involves Wison's 2.4 million tpa capacity FLNG vessel.

Geocean will be responsible for installing a submerged swivel and yoke system anchored via three drilled piles and connected to the FLNG vessel via a single flexible riser.

<https://www.offshore-energy.biz/installation-jobs-for-germanys-wilhelmshaven-2-lng-terminal-go-to-norwegian-and-french-firms/>

Installation jobs for Germany's Wilhelmshaven 2 LNG terminal go to Norwegian and French firms

PROJECT & TENDERS

June 14, 2024, by Melisa Čavčić

Deutsche Energy Terminal (DET), Germany's state-owned operator of four terminals, is moving forward with its second liquefied natural gas (LNG) terminal in Wilhelmshaven. To this end, Norway's technology company EConnect Energy has been hired to install a jettyless ready IQuay solution for LNG import to Wilhelmshaven. Thanks to this, the Norwegian player has tapped France's marine contractor GEOCEAN for subsea installation work.



FSRU Excelsior; Source: Excelerate

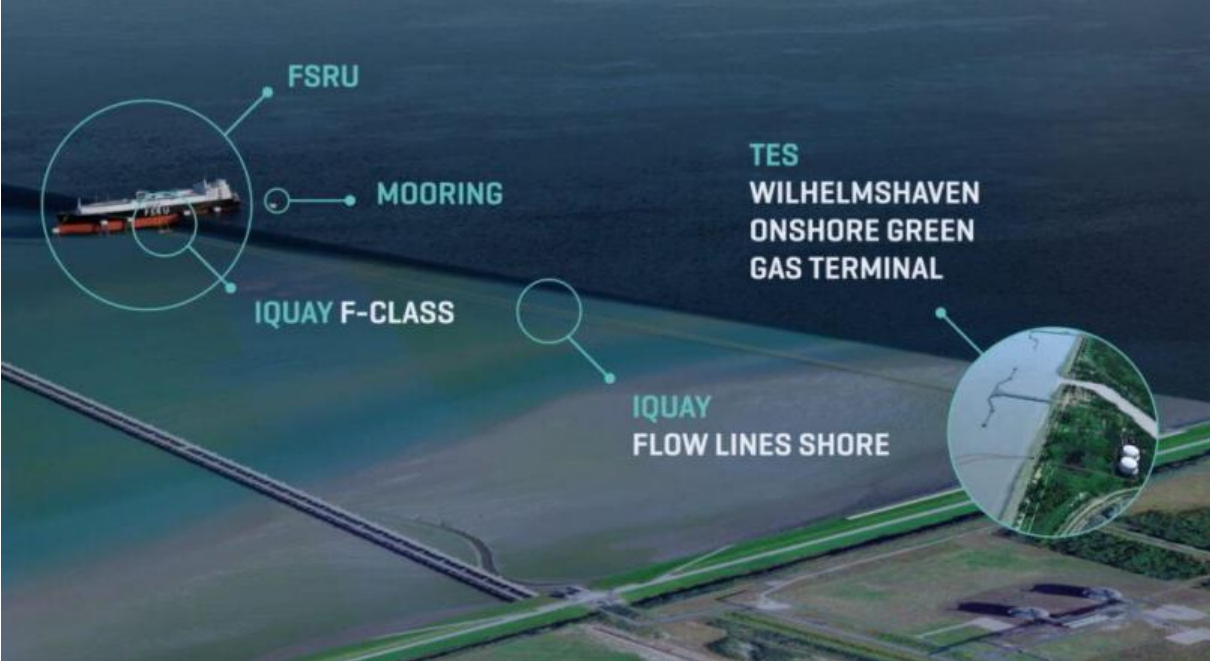
In the aftermath of the energy crisis, spurred by the Ukraine crisis in 2022, energy became the king on the global scene. In response to a potential gas crunch, Germany took steps to bolster energy security by 2025 with its [LNG Acceleration Law](#) in May 2022.

Afterward, the German Federal Ministry of Economics and Climate Protection picked **Tree Energy Solution (TES)** and **ENGIE** in early September 2022 to develop and implement a second LNG floating storage regasification unit (FSRU) in Wilhelmshaven to address energy security needs in the country and Europe.

The Wilhelmshaven 2 LNG terminal is on the list of priority projects supported by the LNG Acceleration Law, as it is said to be strategically positioned to import a relevant amount of Germany’s natural gas demand and play an important role in future decarbonization efforts from 2025.

FSRU Wilhelmshaven, a joint venture between TES and ENGIE, has inked a contract for installation works with EConnect Energy, following the execution of the supply contract, signed in 2022, for which the Norwegian firm is currently in the final phase of delivering the jettyless ready IQuay solution for the new offshore jetty at Wilhelmshaven.

While welcoming the contract award, **Morten Christophersen**, CEO at EConnect Energy, said: *“We are excited to take on the second phase of the Wilhelmshaven project to include the installation scope and build upon the momentum of the system delivery.”*



The EConnect IQuay F-Class System used at Wilhelmshaven; Source: EConnect
Furthermore, EConnect’s delivery will enable the transfer between the FSRU **Excelsior**, owned by the U.S.-based Excelebrate Energy, and shore. With an LNG capacity of 138.000 cbm, the FSRU is expected to be moored at DET’s new island jetty in Jade Bay during the second half of 2024. After vaporization, natural gas will be sent to shore via the Norwegian firm’s IQuay F-Class System and fed into the Open Grid Europe (OGE) gas grid.

The company has selected GEOCEAN to carry out the fast-track installation project, which is seen as a way to enhance Germany’s energy infrastructure and security. Thanks to this, the

French firm will be in charge of the on-site subsea installation of 6 x 1,600m long thermo composite pipes (TCP) flowlines, two pipeline end manifold (PLEMs), associated risers, one power and one 1,800 m fiber optic cable with its FAST-FLEX barge solution to streamline installation operations.

These deals come only weeks after KN Energies was [picked to carry out](#) the preparatory work for the technical operation of the Wilhelmshaven 2 LNG terminal by setting up an operational company in Germany, an engineering team, and preparing the terminal's technical operating documentation.

OMNI Features | Installation of Germany's Wilhelmshaven 2 LNG Terminal Assigned to Norwegian and French Companies Firms · Equinor and GRTgaz Sign PDA to Develop CO2 Transport Infrastructure in France · 2H and Vekta Group forge Partnership to Enhance Offshore Wind Cable Innovation

| Installation of Germany's Wilhelmshaven 2 LNG Terminal Assigned to Norwegian and French Companies Firms

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will be sent to shore via the Norwegian firm's IQuay F-Class System and fed into the Open Grid Europe (OGE) gas grid.

| Equinor and GRTgaz Sign PDA to Develop CO2 Transport Infrastructure in France

Equinor and main French gas transmission operator GRTgaz sign Project Development Agreement (PDA) for a CO2 transport system for captured CO2 from industrial emitters in France to safe and permanent storage offshore Norway via the planned **CO2 Highway Europe** pipeline project.

Specifically, GRTgaz will develop a 30 km onshore pipeline network in the Dunkirk region, a compressor station in Dunkirk sending the CO2 into the offshore pipeline connecting to the CO2 Highway Europe. The capacity in the initial phase will be 3 to 5.5 million tonnes of CO2 per year, and the capacity can be expanded to also accommodate CO2 captured at other industrial clusters in France.

The development will consist of a network of onshore CO2 pipelines, to be developed by GRTGaz, which will connect France's Dunkirk industrial area to Equinor's CO2 Highway Europe, a large-scale CO2 pipeline being planned by Equinor also connecting Zeebrugge, Belgium to a portfolio of storage sites under the seabed offshore Norway.

| 2H and Vekta Group Forge Partnership to Enhance Offshore Wind Cable Innovation

2H and Vekta Group Energy Division Ltd have entered into a strategic partnership to advance high-voltage cable services for offshore wind developments. The collaboration was formalized with a memorandum of understanding (MOU) signed earlier this month. The MOU outlines a framework for both companies to work together on offshore wind high-voltage cable initiatives, project tenders, and software development in the renewables industry, both in the UK and globally.

The partnership aims to drive innovation in cable system design and optimise offshore wind site layouts, as well as promote digital advancements through new software initiatives. 2H, known for its expertise in advanced engineering for fixed and floating wind projects, brings experience in structural, hydrodynamic, and geotechnical engineering, along with related digital and integrity services. Vekta, specialising in electrical engineering for high-voltage cables in offshore renewables, offers expertise in sizing, array topology optimisation, lifecycle costing, and loss assessments.

[Reference: Offshore Energy | Equinor | 4C Offshore](#)