

Nantes, 09 April 2019



Zourite - End of Offshore Operations for the [New Coastal Road \(NRL\)](#)

D-ICE Engineering took part in an unconventional project by providing the dynamic positioning system (DP) and the associated piloting expertise for an outstanding vessel. The huge megabarge Zourite was to be used to convey components of the viaduct for the new coastal road on Réunion Island. The barge has just completed the installation of all offshore piles, a major milestone for the project.

The group holding the contract for the marine viaduct has chosen to equip an unconventional jack-up barge to meet the specific construction conditions of the project to transport and install heavy packages for the viaduct offshore. Zourite is a mega-barge about 100 m long with 8 legs designed to install elements up to 4,800 tonnes and 23 m in diameter. As part of the construction of the barge, SIREHNA has designed, developed and installed an innovative dynamic positioning system enabling the vessel to ensure the offshore operations. The onboard DP was made over tailored and unique control algorithms that have demonstrated extreme robustness and accuracy all over the project.

D-ICE expertise was a key parameter for the unprecedented success of the installation of the piers for the NRL. D-ICE has especially applied high-end skills for the design of the offshore operations and control of the use of DP technology and the behaviour of the floating platforms. Developed and manufactured by SIREHNA, the DP system, combined with solid knowledge provided by D-ICE, has demonstrated impressive performances. Thanks to great teamwork with the Compagnie Maritime du Littoral shipping line, unmatched results in challenging jacking conditions were obtained during the project timeline.

Built by a consortium comprising VINCI Construction Grands Projets (authorised representative), Dodin Campenon Bernard, subsidiaries of VINCI Construction, Bouygues Travaux Publics, a subsidiary of Bouygues Construction and Demathieu Bard Construction, the barge was taking part in the construction of the new coastal road on Réunion Island.

ZOURITE TECHNICAL DATA SHEET

Dimensions of the barge

- Dimensions: 107 metres x 44 metres - Hull height: 7 metres

Dimensions of 8 legs

- Length: 55 metres - Diameter: 3 metres - Leg weight: 240T

Cargo size

- 4,800 tons - 23 m diameter

Official name and flag of barge

Owner: Compagnie Maritime du Littoral

Flag: French

Home port: Le Havre

Shipyard: CRIST - Gdynia - Poland

About D-ICE

D-ICE ENGINEERING is an engineering and research company specialised in automation and hydrodynamics. D-ICE develops and provides tools, simulation means, technologies and advanced services in particular for complex offshore operations and marine renewable energy systems. A world-renowned expert in dynamic positioning, hydrodynamics, marine operations and artificial intelligence, D-ICE is a major technological player and a partner of choice for innovative projects with high added value.

D-ICE ENGINEERING: Design, Innovation, Control, Expertise

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About the project : <http://www.nouvelleroutedulittoral.re/english/>