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Çeksan Shipyard Introduces the Next Generation of Eco-Friendly Chemical Tankers.

NEOCLEAN TANKERS series brings together hybrid power, scalable battery technology and zero-emission port operations for the future of sustainable shipping.

Çeksan Shipyard is embarking on a new-generation vessel project aimed at supporting the maritime industry's global transition towards lower-carbon operations. The shipyard is commencing construction of the first vessel in its NEOCLEAN TANKERS series, a fourth-generation chemical tanker concept developed to deliver high operational efficiency together with advanced environmental performance.

The first vessel, Hull No. NB85, will feature a hybrid energy infrastructure, a modular battery system and the capability to conduct port operations with zero emissions, offering an innovative engineering approach to the future of sustainable maritime transportation.

The NEOCLEAN series will be operated by NEO TANKER Maritime BV, a subsidiary of Çeksan.



Developed in response to the growing importance of emissions reduction targets across the international maritime industry, the NEOCLEAN TANKERS concept combines environmental sustainability with operational efficiency.

The vessel's research, development and design have been carried out by Turkish engineers, and the ship will be constructed under the classification of Türk Loydu, Türkiye's national classification society.

A key element of the project is its adaptable infrastructure. The vessel has been designed not only to meet today's operational requirements, but also to accommodate energy technologies that may become available in the future. This approach provides the NEOCLEAN TANKERS concept with a long-term development path throughout the vessel's operational lifetime.

Designed for efficient chemical transportation

The first vessel will measure approximately 109.5 metres in length and 17 metres in breadth, with a deadweight capacity of 7,800 tonnes. With approximately 8,800 cubic

metres of cargo capacity, the vessel will be designed to serve the transportation of chemical cargoes.

The vessel will achieve a maximum speed of 12 knots, while its economic cruising speed will be 10.5 knots. Accommodation will be provided for a crew of 18.

Its energy system will comprise a lithium-ion battery system with an initial capacity of approximately 10 MWh, supported by six 555 kWe generators. The configuration is designed to enable the vessel to operate with a targeted fuel consumption of less than approximately 7 tonnes per hour.

Scalable energy storage for a future-ready vessel

The future-ready energy architecture is one of the defining characteristics of the NEOCLEAN TANKERS series.

Although the vessel will initially be equipped with approximately 10 MWh of battery capacity, its underlying infrastructure has been designed to accommodate a total capacity of up to 25 MWh.

The use of containerised battery modules will allow the vessel's energy storage capacity to be expanded to 15, 20 or 25 MWh, according to operational requirements. These additional modules can be integrated either during the newbuilding phase or at a later stage during the vessel's service life.

This scalable approach is intended to provide flexibility as operational requirements and energy technologies evolve, without requiring a fundamental redesign of the vessel's energy architecture.

Zero-emission capability in port

The vessel's environmental performance will be particularly evident during port operations.

The NEOCLEAN TANKER has been designed so that arrival, cargo discharge and departure operations can be carried out entirely using battery power. By eliminating the need to operate conventional generators during these activities, the vessel is designed to significantly reduce emissions and noise in port environments.

The vessel will also incorporate infrastructure meeting the requirements of the Cold Ironing notation, allowing it to connect to shore-side electricity and charge its batteries while alongside.

As a result, the vessel will be able to remain in port without running its onboard generators, further reducing local emissions and noise during berthing operations.

Efficiency through integrated marine engineering

The environmental performance of the NEOCLEAN TANKERS series is supported by a combination of energy and hydrodynamic efficiency measures.

A silicone-based eco-friendly hull coating system, an optimised hull form, and a specially developed propeller and rudder system have been incorporated into the vessel's design.

Together, these solutions are intended to reduce resistance and fuel consumption while contributing to lower carbon emissions throughout the vessel's operational profile.

Construction to begin with NB85

The first steel cutting for Hull No. NB85, the first vessel in the NEOCLEAN series, took place on 30 September 2026, officially marking the start of construction.

The vessel is scheduled to enter commercial service by the end of 2027.

With the launch of the NEOCLEAN TANKERS series, Çeksan Shipyard is further demonstrating its engineering capabilities in environmentally efficient vessel technologies and its commitment to developing innovative solutions for the long-term sustainability of maritime transportation.