



## RENK wins first order for maritime hybrid drive “MARHY”

At the end of March 2019, the maritime sales team of RENK’s Rheine plant managed to win its first new construction project for the maritime hybrid system called MARHY. This system enables ships with 2-stroke engines to efficiently generate on-board power supply by using the main engine (PTO-operation). In addition, a fully electric drive (PTH- operation) is available for zones with low emissions zones (port areas) and for emergencies.

The newbuild is a 30,000 cbm LNG carrier owned by Knutsen OAS. It is equipped with a 6,00 kW strong 2-stroke main engine and is the first of this size. RENK’s scope of delivery includes a tunnel gearbox (type SHHII-1600), a fully-automatic PSC-85 (Propeller shaft clutch), elastic couplings, and, for the first time, key electric components. These include a 1 MW generator/e-motor as well as the corresponding frequency converter. In addition, RENK is responsible for the system integration.

After completion of the ship at the Hyundai Mipo shipyard in South Korea, it will be stationed in the Italian Mediterranean Sea and operated by Milan-based Edison Energy SpA. The LNG carrier is part of an infrastructure strategy, which provides for the construction of several LNG depots along the Italian coast to provide a reliable energy supply.

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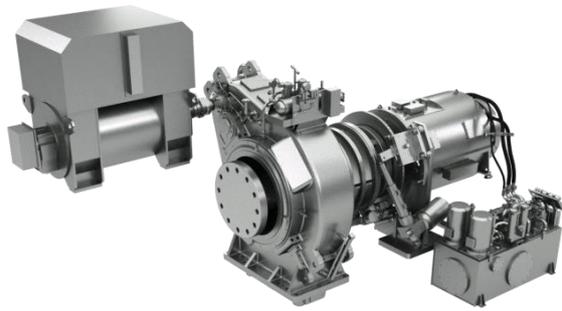
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Hybrid-drive MARHY