sHYpS

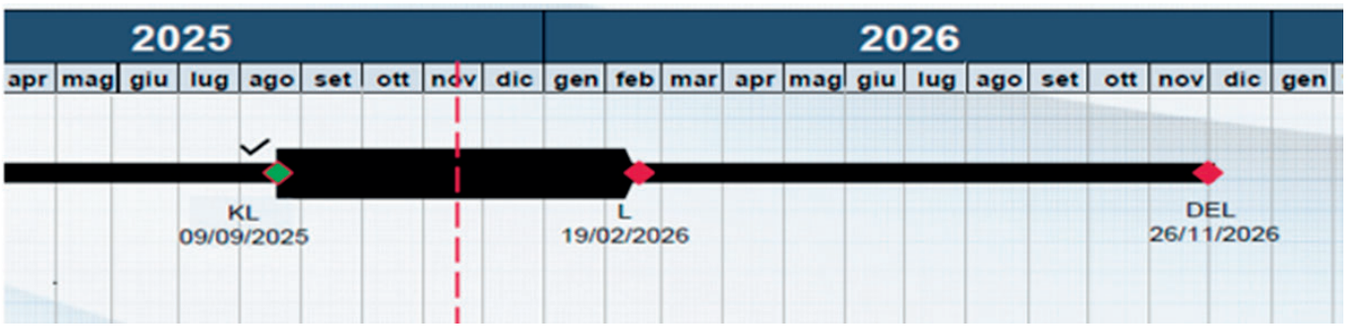
Sustainable HYdrogen powered Shipping

Newsletter issue #7

We are pleased to share Newsletter #7 of the sHYpS project, highlighting the significant technical progress achieved in recent months. Construction of the Viking Libra and development of the LH_2 system are advancing steadily, key components are being prepared for testing, and the infrastructure for system validation is now in place. These milestones mark an important step toward demonstrating safe, efficient, and sustainable hydrogen propulsion for maritime transport.

Ship under construction: development status

Construction of the vessel is progressing steadily, with key systems moving into the installation and commissioning phase. Structural work is advancing alongside integration of the hydrogen propulsion components, marking an important step toward the vessel's zero-emission capabilities.



Progress of Viking Libra and LH_2 System

Significant progress has been made on the Viking Libra and its liquid hydrogen system. RBC 4 is now almost completed, while activities on RBC 5a have begun. Delivery of the LH_2 system's TCS is scheduled for December 2025, keeping the overall timeline on track. Converters, transformers, and battery racks have also been installed on board.

Progress of Tank and TCS Construction

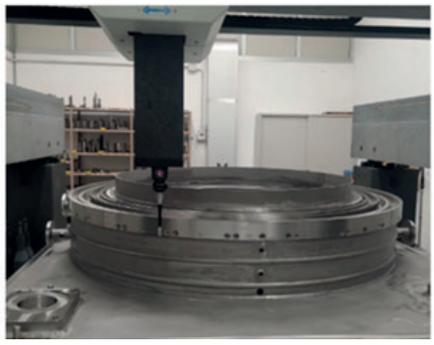
Construction of the tank and the Tank Connection System (TCS) is advancing as planned. The Container has successfully passed the test for the ADR and now is under finalization of the cabinet. The TCS is under completion, and the connection interface has been welded successfully. Both components are approaching the stage where they can be transferred for integration and testing.

LH2 Tank and TCS main arrangement

LH2 Tank

TCS (Tank Connection Space)

TCS Connection Interface

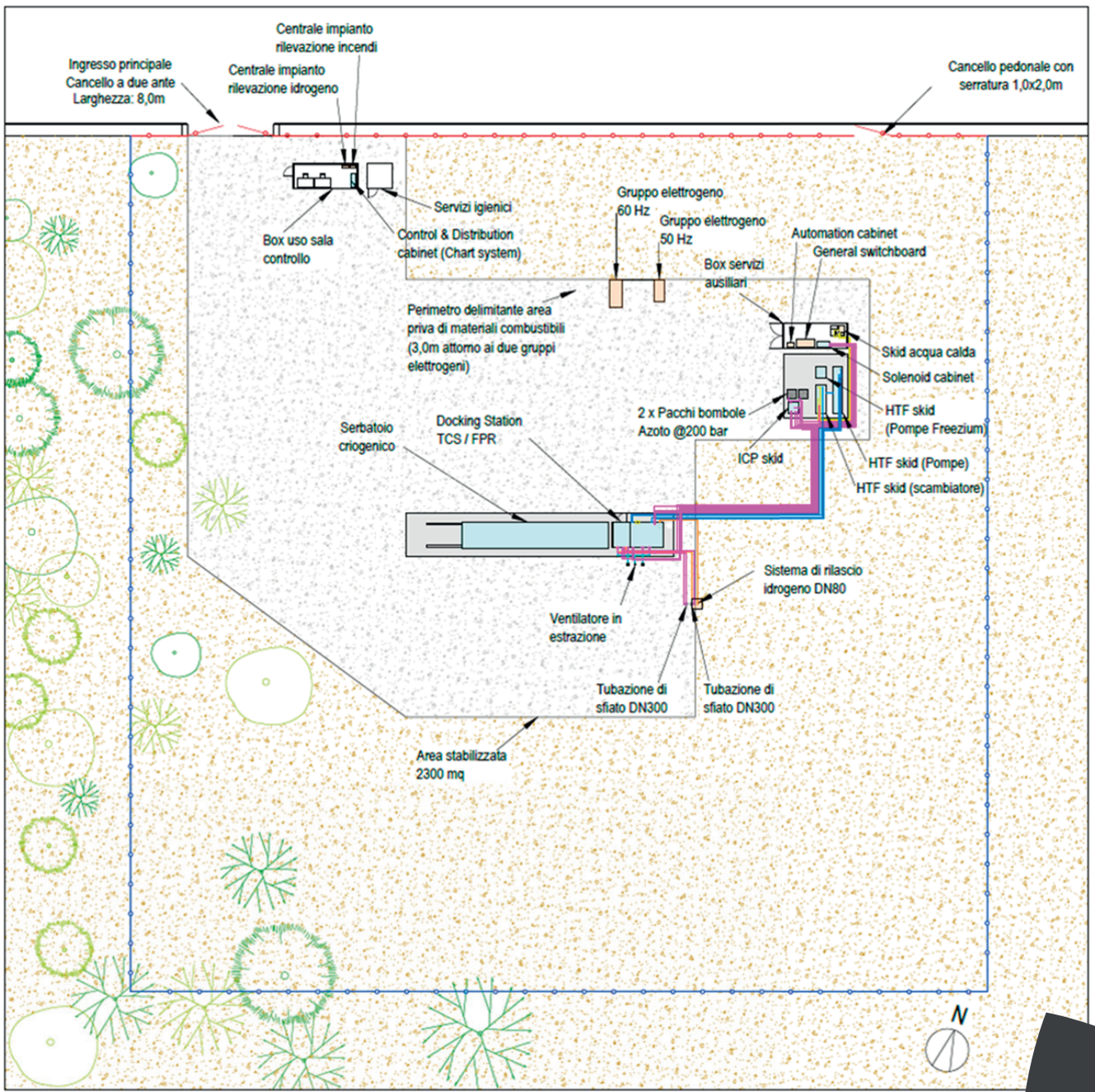


LH2 Tank Interface

Field Tests Facility in Staranzano (Italy)

The Field Tests Facility in Staranzano is now ready to accommodate the TCS and hydrogen tank for upcoming test campaigns. The site layout and infrastructure have been prepared to support installation, operation, and performance validation of the key hydrogen systems.

Layout of Field Tests Facility



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