

NAMING CEREMONY FOR THE **GRANDE SHANGHAI**: GRIMALDI GROUP'S FIRST AMMONIA READY CAR CARRIER

Celebrations in China for the innovative 9,000 CEU PCTC: she will halve fuel consumption per cargo unit and can be converted to the use of ammonia for carbon free transport.

Naples, 21 July 2025: This morning in Haimen (Jiangsu, China), the naming ceremony of the **Grande Shanghai** was held — marking the launch of the **first of ten next-generation PCTC (Pure Car & Truck Carrier) vessels** commissioned by the Grimaldi Group from China Merchants Heavy Industries. The first five vessels will be capable of transporting **9,000 CEU** (Car Equivalent Units), while the remaining five will offer an increased capacity of 9,800 CEU.

Among the participants were **Sichuan Wu**, Chairman of China Merchants Industry, and **Luigi Pacella Grimaldi**, Automotive Intercontinental Director of the Italian shipping group. The event was also graced by the presence of the Consul General of Italy in Shanghai, **Tiziana D'Angelo**, who served as the godmother of the vessel, symbolically named after China's economic capital.

The **Grande Shanghai** stands out as a true technological gem, combining high cargo capacity and environmental sustainability. Compared to the previous car carrier generation, she **reduces fuel consumption per cargo unit transported by 50%**.

The ship's design is the result of close collaboration between the Grimaldi Group and the naval architecture firm Knud E. Hansen. She measures 220 meters in length and 38 meters in beam, has a gross tonnage of 93,145 tonnes, and a cruise speed of 18 knots. Across her 14 decks, she can accommodate **both electric vehicles and those powered by traditional fuels**.

The **Grande Shanghai** is also the first vessel in the Grimaldi fleet to obtain the Ammonia Ready class notation from the Italian Shipping Registry (RINA), which certifies that **she may be converted for the use of ammonia as an alternative, zero-carbon fuel**: a key step toward energy transition and efficient, carbon-free maritime transport.

Built to the highest environmental standards, the **Grande Shanghai** has also obtained additional class notations, including Green Plus, Green Star 3, Comfort Vibration, and Comfort Noise Port.

The vessel integrates numerous green technologies: **mega lithium batteries** with a total power of 5 MWh, 2,500 square meters of **solar panels**, and **cold ironing** with shoreside supply of electricity where available.

Her advanced energy optimization systems also feature silicon-based hull coatings to reduce drag, smart ventilation and air conditioning controls, an electronically controlled engine with an exhaust gas cleaning system to reduce sulphur oxide (SO_x) and particulate matter (PM) emissions, and selective catalytic reduction to limit nitrogen oxide (NO_x) emissions below TIER III levels.

Additional innovations further minimizing her environmental impact include an Air Lubrication System, optimized hull design, and an innovative **gate rudder** installed for the first time on a PCTC vessel. This rudder, featuring two foil blades positioned on either side of the propeller, improves propulsion efficiency and manoeuvrability.

Thanks to her remarkable features, the **Grande Shanghai** is poised to navigate a bold new course toward a future of global maritime transport that is more sustainable, innovative, and efficient.

For more information:

Grimaldi Group – External Relations: Paul Kyprianou Ph: +39 081 496246; Mob: +39 3204076539; Email: kyprianou.paul@grimaldi.napoli.it

The Grimaldi Group, headquartered in Naples, operates a fleet of 130 vessels and employs approximately 20,000 people. Wholly owned by the Grimaldi family, it is a multinational logistics Group specialized in the operation of roll-on/roll-off vessels, car carriers and ferries. It comprises seven shipping companies, namely: Grimaldi Deep Sea, operating in the transport of rolling cargo and containers on the Atlantic routes and between the Mediterranean and West Africa; Grimaldi Euromed, specialists in the transport of rolling freight in Europe, in the Motorways of the Sea and in passenger transport in the Mediterranean with the Grimaldi Lines brand; Atlantic Container Line, which offers transport services for containers and rolling cargo between North America and Northern Europe; Malta Motorways of the Sea, whose vessels connect Malta to the main ports in the Mediterranean; Minoan Lines, operating in Greek cabotage for the transport of freight and passengers; Finnlines, carrying freight and passengers in the North and Baltic Sea; and Trasmed GLE, active in the transport of freight and passengers between mainland Spain and the Balearic Islands.

These maritime connections are the core of an advanced logistics chain, which includes port terminals and road transport companies. The 20-plus ports and terminals owned/operated by the Grimaldi Group are located in 13 countries: Italy, Spain, Greece, Germany, Sweden, Finland, Denmark, Ireland, Belgium, Egypt, Cameroon, Nigeria and Benin. Most of these terminals are fitted with Pre-Delivery Inspection (PDI) facilities, warehouses and workshops.