Pioneering Liquefied Natural Gas (LNG)

Reflecting on our commitment to sustainability, we are continuing to pioneer the use of liquefied natural gas (LNG), the world’s cleanest fossil fuel, and are expanding our LNG investment.

We began the implementation of our LNG vision by using LNG in port. In 2015, AIDAprima was the first cruise ship in the world to be supplied with power by an LNG Hybrid barge while in Hamburg, Germany. The LNG Hybrid Barge, a unique pilot project with Becker Marine Systems, was designed, constructed and commissioned in just three years. Since then, we have expanded our LNG capabilities to supply LNG directly to two ships, each with a dual-fuel powered engine (AIDAprima and AIDaperla). These ships use LNG while in port drawing fuel directly from trucks alongside the ship.

In 2018, we made history with the launch of AIDAnova, the first cruise ship in the world powered by LNG both at sea and in port. Leading the cruise industry’s use of LNG to power cruise ships, we have a further 10 sister vessels due for delivery between 2019 and 2025 for Costa Cruises, AIDA Cruises, P&O Cruises UK, Carnival Cruise Line and Princess Cruises.

First cruise ship powered by LNG at sea and in port

We began construction on AIDAnova in 2016 and the history-making ship joined the fleet in late 2018. The largest cruise ship ever built at a German shipyard, AIDAnova also marks an exciting new generation of “green” cruise ships that will be powered at sea and in port by LNG. In December 2018, AIDAnova made its maiden call in the Canary Islands at the Santa Cruz de Tenerife Terminal, a concession operated by Carnival Corporation that can accommodate next-generation “green” cruise ships powered by LNG. The first LNG supply for AIDAnova at the port took place upon its arrival and was made possible through our partnership with Shell.

Switching from Marine Diesel to LNG

- 0 Sulfur Dioxide Emissions
- 95-100% Reduction in Particulate Matter
- 85% Reduction in Nitrogen Oxides
- Up to 20% Reduction in Carbon Emissions

Strengthening our LNG Supply Chain

In 2017, we expanded our partnership with Shell to fuel North America’s first next-generation LNG-powered cruise ships – the first of which, the Mardi Gras, will arrive in October 2020. As part of the agreement, the two ships, built with a next-generation “green cruising” ship design, will be fueled through Shell’s Partner Quality LNG transport (AID-LNG) Bunker Barge (LLB) – a project that is part of Shell’s strategic plan to develop a global LNG bunkering network. The ocean-going LLB, which is designed to support growing cruise line demand for LNG as a marine fuel, will be the first of its kind in the U.S. and will allow these ships to refuel with LNG at ports along the southern U.S. East Coast.

We are proud to be on the forefront of advancing LNG as a fuel source for the cruise industry. One of the keys to establishing LNG as a standard for powering cruise ships is building out an extensive, safe and reliable infrastructure across the globe for this clean burning fossil fuel. We are looking forward to working closely with Shell as they help to bring LNG to North America in what we hope will be the first step in building a strong foundation for the future of LNG fuel supply for cruise ships in the region.

Expanding our LNG Ship Orders to 2025

Looking to 2019, we have 10 next-generation cruise ships on order that will be the first in the industry to be powered by LNG at sea and in port. We began construction on Costa Smeralda in 2017. The new Costa Cruises ship will be the brand’s first ship powered by LNG and is expected to join the fleet in late 2019. Costa Smeralda will be the world’s first LNG-powered ship to be broadly marketed to consumers from multiple countries, including Italy, France, Spain, Germany and Switzerland. A second Costa LNG ship is scheduled for delivery in 2021. P&O Cruises UK will launch Iona in 2020 as the brand’s first LNG ship. Iona will also debut as the largest cruise ship ever built for the British market. P&O’s second LNG ship is scheduled for delivery in 2022. Carnival Cruise Line’s Mardi Gras will debut in 2020 as the first cruise ship in North America powered by LNG and will be the largest Carnival Cruise Line ship ever constructed. The brand’s second LNG ship is scheduled for delivery in 2022. Our Princess Cruises brand also has two LNG ships on order with expected delivery dates in 2023 and 2025. In addition to the new AIDAnova, our AIDA Cruises brand has two additional LNG ships on order due in 2021 and 2023.

LNG Program Timeline

- **2015**: LNG Capabilities while in port
- **2016**: AIDAprima LNG Capabilities while in port
- **2017**: AIDAprima LNG Capabilities while in port
- **2018**: AIDaperla LNG Capabilities while in port
- **2019**: Costa Smeralda LNG Capabilities while at port and sea
- **2020**: Carnival Mardi Gras LNG Capabilities while at port and sea
- **2021**: 2nd AIDA ship with LNG capabilities while at port and sea
- **2022**: Carnival Costa Class Line ship with LNG capabilities while at port and sea
- **2023**: 3rd AIDA ship with LNG capabilities while at port and sea
- **2024**: 2nd Costa ship with LNG capabilities while at port and sea
- **2025**: 2nd Princess Cruises ship with LNG capabilities while at port and sea

Sustainability

- **2015 AIDAsol**
- **2016 AIDAprima**
- **2017 AIDAperla**
- **2018 AIDAnova**
- **2019 Carnival Mardi Gras**
- **2020 Costa Smeralda**
- **2021 2nd AIDA ship**
- **2022 Carnival Costa Class Line ship with LNG capabilities while at port and sea**
- **2023 3rd AIDA ship with LNG capabilities while at port and sea**
- **2024 2nd Costa ship with LNG capabilities while at port and sea**
- **2025 2nd Princess Cruises ship with LNG capabilities while at port and sea**

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- **No Scheduled Deliveries**