



Carnival Corporation Expands Installation of Innovative Air Lubrication Systems

October 27, 2022

World's largest cruise company to install air lubrication technology on at least 20% of the ships in its fleet to reduce hull drag, fuel consumption and carbon emissions

On top of four systems already in operation, company currently adding air lubrication on five ships, with plans to install the technology on at least 10 more ships across a majority of its brands through 2027

MIAMI, Oct. 27, 2022 /PRNewswire/ -- [Carnival Corporation & plc](#) (NYSE/LSE: CCL; NYSE: CUK), the world's largest cruise company, today announced plans to expand the program for installation of Air Lubrication Systems (ALS) to a majority of the cruise line brands in its fleet through 2027, which is expected to generate significant savings in fuel consumption and carbon emissions by reducing hull drag by approximately 5% per ship.

Carnival Corporation is currently installing the Silverstream® System ALS on five total ships, including two ships in 2022 for its Princess Cruises and P&O Cruises (UK) brands. In addition, the company is planning at least 10 more installations for existing and newbuild ships across more than half of its cruise line brands, and it expects continued expansion of the ALS program over time. The expansion plans build on the success of four systems currently operating on ships from its AIDA Cruises and Princess Cruises brands.

ALS technology, which first saw service within the Carnival Corporation fleet in 2016 with the introduction of AIDAprima, generates a cushion of air bubbles to lubricate the flat bottom of a ship's hull, reducing friction between the ship and surrounding water, resulting in savings in energy and fuel consumption across a wide speed range.

"The installation of air lubrication technology is another example of our ongoing efforts to drive energy efficiency and reduce fuel consumption and emissions throughout our fleet," said Bill Burke, chief maritime officer for Carnival Corporation. "We look forward to expanding the ALS program and furthering our long-term sustainability strategy to continually invest in a broad range of energy reduction initiatives, which has included over \$350 million invested in energy efficiency improvements since 2016."

As part of its longer-term sustainability plan, Carnival Corporation remains focused on its commitment and efforts to establish a pathway to decarbonization. Having peaked its absolute carbon emissions in 2011, the company has made significant progress over the past 15 years reducing its carbon emission intensity – despite significant capacity growth during that time – and achieved its 2020 carbon intensity reduction goal three years ahead of schedule (in 2017).

Overall, the company is committed to significant investments to achieve its 2030 sustainability goals and 2050 aspirations, which incorporate six focus areas overall, including climate action; circular economy; sustainable tourism; good health and well-being; diversity, equity and inclusion; and biodiversity and conservation. Among these priorities, the company is committed to reducing carbon emission intensity by 20% from its 2019 baseline by 2030 and has set an aspiration to achieve net carbon-neutral ship operations by 2050.

More information on the company's sustainability efforts is available at www.CarnivalSustainability.com.

About Carnival Corporation & plc

Carnival Corporation & plc is one of the world's largest leisure travel companies with a portfolio of nine of the world's leading cruise lines sailing to all seven continents. With operations in North America, Australia, Europe and Asia, its portfolio features Carnival Cruise Line, Princess Cruises, Holland America Line, Seabourn, P&O Cruises (Australia), Costa Cruises, AIDA Cruises, P&O Cruises (UK) and Cunard.

Additional information can be found

on www.carnivalcorp.com, www.carnival.com, www.princess.com, www.hollandamerica.com, www.seabourn.com, www.pocruises.com.au, www.costacruise.com, www.aida.de, www.pocruises.com and www.cunard.com.

View original content: <https://www.prnewswire.com/news-releases/carnival-corporation-expands-installation-of-innovative-air-lubrication-systems-301661162.html>

SOURCE Carnival Corporation & plc

Jody Venturoni, Carnival Corporation, jventuroni@carnival.com, Ellie Beuerman, LDWW, ellie@ldww.co