



## Carnival Corporation Announces Ambitious 2024 Greenhouse Gas Intensity Reduction Projections

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*World's largest cruise company reaffirms progress toward achieving its 2030 goal four years early in 2026*

MIAMI, Feb. 6, 2024 /PRNewswire/ -- [Carnival Corporation & plc](#) (NYSE/LSE: CCL; NYSE: CUK), the world's largest cruise company, today announced it is on pace to achieve an overall 18% reduction in greenhouse gas (GHG) emission intensity on a lower berth capacity basis in 2024 (compared to 2019) – just a few points shy of its 20% reduction goal originally targeted for 2030. By year end, the company expects to have reduced its GHG emission intensity by an impressive 42% on a lower berth capacity basis since its first benchmark in 2008. The company also expects this performance to put it ahead of the International Maritime Organization's (IMO) 2030 carbon intensity reduction timeline.

This announcement follows the company's decision last year to accelerate its stated 2030 GHG intensity reduction goal by four years, committing to at least a 20% cut on a lower berth capacity basis by 2026 (versus 2019 levels). Thanks to the company's aggressive, longstanding, and ongoing actions to be more energy efficient, reduce overall fuel use, and operate using emission-reducing technologies and lower-emission fuels, Carnival Corporation is producing 10+% less total GHG emissions today than its peak historical year (2011), despite increasing capacity by roughly 30% since that time.

### How It's Being Done

Carnival Corporation is executing on two parallel paths to achieve these significant reductions.

First, the company recognizes that using less fuel is the fastest way to reduce GHG emissions and make a tangible impact. Since cruise ships generate their electricity from fuel, Carnival Corporation set out to uncover every area where energy can be saved and cut the amount of fuel used. As a result, the company has implemented several fuel- and energy-saving innovations and continues to invest in improvements to drive further reductions. This includes:

- Upgrading the fleet with innovative technology packages, including modern and efficient HVAC systems, state-of-the-art LED and smart lighting technologies, remote monitoring improvements and more to reduce fuel usage by 5-10% per ship.
- Optimizing hull design and special coatings to minimize drag for greater fuel efficiency.
- Developing more energy-efficient itineraries, fine-tuning hydrodynamics, and using ocean currents and techniques such as weather routing and speed reduction where possible.
- Using shoreside electric power capabilities when available in port – over 60% of the company's ships are equipped to switch off their engines and "plug in" to local power grids while docked to reduce emissions and noise in port.
- Installing Air Lubrication Systems (ALS) to help ships glide on a cushion of air bubbles with less friction, reducing fuel use for propulsion by up to 5%.

At the same time, lacking zero-emission fuels broadly available to the maritime industry and with fossil fuels as the only viable option at scale today, Carnival Corporation has continued to look for ways to lower GHG and other emissions from the fuel already used while also pioneering lower-emission alternatives and actively exploring new technologies to power its ships. This includes:

- Leading the industry with nine Liquefied Natural Gas (LNG)-capable ships in service and two more on order. This is delivering immediate GHG reductions, reducing direct carbon emissions by up to 20%, almost eliminating sulfur dioxides and significantly reducing emissions of nitrogen oxides and particulate matter.
- Improving air emissions with Advanced Air Quality Systems to "scrub" particulate matter and other compounds from ships' exhaust.
- Trialing advanced fuel technologies, including a first-of-its-kind lithium-ion battery storage system, testing fuel cells powered by hydrogen derived from methanol and leading the industry in piloting biofuels as a fossil fuel replacement.

### Environmental Commitment

Overall, the company continues to invest significantly in its deep-rooted commitment to protecting its communities, vibrant marine ecosystems, and scenic spaces. This includes ongoing reductions in GHG emissions from its operations and its strategy to pursue net zero emissions from ship operations by 2050 as part of its long-term sustainability vision and commitment to leading the way in sustainable cruising.

To learn more about the company's sustainability focus areas, please visit [www.CarnivalSustainability.com](http://www.CarnivalSustainability.com).

### About Carnival Corporation & plc

Carnival Corporation & plc is the largest global cruise company, and among the largest leisure travel companies, with a portfolio of world-class cruise lines – AIDA Cruises, Carnival Cruise Line, Costa Cruises, Cunard, Holland America Line, P&O Cruises (Australia), P&O Cruises (UK), Princess Cruises, and Seabourn.

Additional information can be found on [www.carnivalcorp.com](http://www.carnivalcorp.com), [www.aida.de](http://www.aida.de), [www.carnival.com](http://www.carnival.com), [www.costacruise.com](http://www.costacruise.com), [www.cunard.com](http://www.cunard.com), [www.hollandamerica.com](http://www.hollandamerica.com), [www.pocruises.com.au](http://www.pocruises.com.au), [www.pocruises.com](http://www.pocruises.com), [www.princess.com](http://www.princess.com), and [www.seabourn.com](http://www.seabourn.com).

For information on Carnival Corporation's industry-leading sustainability initiatives, visit [www.carnivalsustainability.com](http://www.carnivalsustainability.com).

*This release includes claims related to our greenhouse gas emissions reductions, goals, initiatives, accomplishments, and progress reports. Supporting data for such greenhouse gas emissions claims, including data verification information, is published in our Sustainability Reports on [carnivalcorp.com/sustainability](http://carnivalcorp.com/sustainability) on an annual basis.*

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