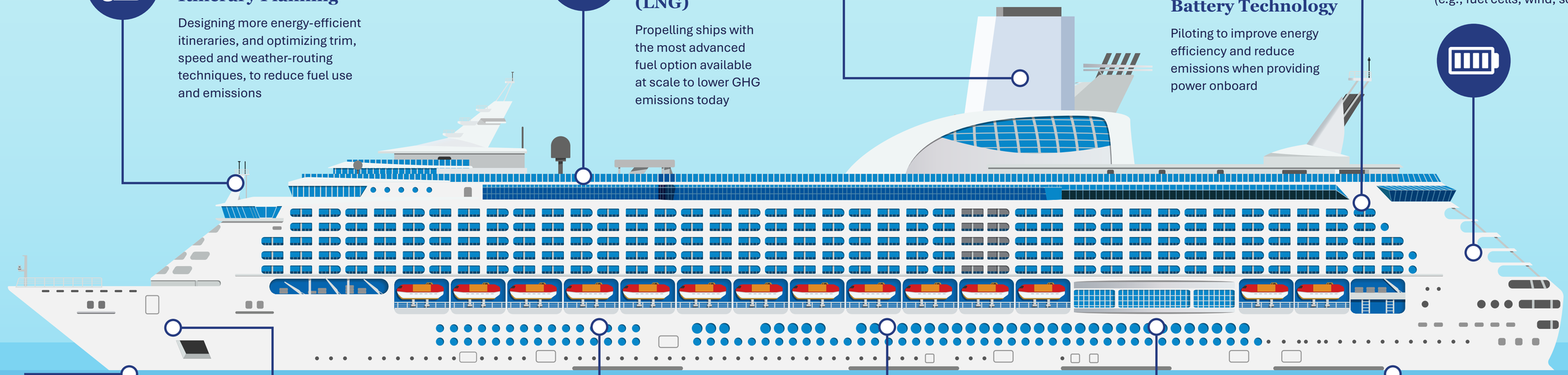
CARNIVAL CORPORATION

Carnival Corporation Is Reducing GHG Emissions With Solutions Big & Small

Company is producing **15% less total GHG emissions today** than its peak historical year (2011) through its multi-faceted decarbonization strategy



Operational Improvements & Itinerary Planning

Designing more energy-efficient itineraries, and optimizing trim, speed and weather-routing techniques, to reduce fuel use and emissions

Liquefied Natural Gas (LNG)

Propelling ships with the most advanced fuel option available at scale to lower GHG emissions today

Advanced Air Quality Systems (AAQS)

Scrubbing particulate matter from exhaust to improve air quality

Battery Technology

Piloting to improve energy efficiency and reduce emissions when providing power onboard

New Technologies

Regularly trial/evaluate alternative energy sources (e.g., fuel cells, wind, solar, etc.)

Improved Hulls

Optimizing design and protective hull coatings to minimize drag for greater fuel efficiency

Power Saver Packs

Upgrading onboard systems and technologies with energy-efficient LED lights, HVAC automation, variable speed drives and more to reduce fuel usage and emissions

Alternative Fuels

Piloting sustainable biofuels and exploring e-fuels as alternatives to fossil fuels to power ships

Shore Power Capability

Plugging in to shoreside electric power while in port rather than running engines

Engine Efficiency

Focusing on the efficiency of main engines and monitoring performance in real-time

Air Lubrication Systems

Gliding on air bubbles with less friction for fuel consumption savings and reduced emissions

This document may include 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/impact** on an annual basis. *June 2026*