



2004

Launch advanced wastewater purification system twice as stringent as U.S. Federal standards

- 111

Ш 2012

Establish first hybrid advanced emissions purification system to improve air quality



2014

Innovative air lubrication system increases fuel and energy efficiency

2022

Implement Liquefied Natural Gas — the cleanest burning fossil fuel yet

2014

First ship featured on Google's Street View — Allure of the Seas®



2014

Quantum of the Seas® introduces wearable RFID technology and Virtual Balcony[™] staterooms

Visionaries don't settle for ordinary. They forge their own path, miles away from mainstream. Since day one, Royal Caribbean® has pioneered new technology at sea — charting a course from today's innovations to tomorrow's

unforgettable vacations.

DRINKS DINING



2009

The Rising Tide introduces the first moving bar at sea on Oasis of the Seas®



2014

First robotic bartenders at Bionic Bar®

GUEST EXPERIENCE



2016

V00M® — the fastest internet at sea launches fleetwide



ENTERTAINMENT

2014

Quantum of the Seas® brings robo-screens and Vistarama® to sea at Two70®



2018

Symphony of the Seas® showcases 3D flying technology and drones in shows

Two70® features augmented reality adventures onboard Spectrum of the Seas®



RESEARCH & DEVELOPMENT

2017

Innovation Center introduces VR simulator for design and architecture renovation

2018

App launches behind the scenes X-ray vision onboard Symphony of the Seas®

2019

Facial recognition technology makes boarding a breeze

