



A study by Opportunity Green

(Un)Sustainable from ship to shore: Annex

How the cruise industry is trying to gaslight the public into believing that LNG is a climate solution | September 2023

Carnival Corporation & plc



Sustainability Environment Social Governance Resources Reports

Our Focus Areas



Screenshot taken from Carnival Corporation & plc's sustainability sub-page 'Our Focus Areas' on 31 August 2023.



Screenshot taken from Carnival Corporation & plc's sustainability sub-page 'Our Focus Areas' on 31 August 2023.



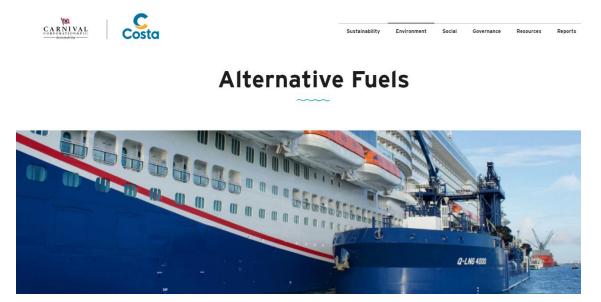
Screenshot taken from an infographic downloaded from Carnival Corporation & plc's sustainability sub-page '2030 Goals & 2050 Aspirations' on 31 August 2023.



Screenshot taken from Carnival Corporation & plc's sustainability sub-page 'We Are Focused on Decarbonization' on 31 August 2023.



Screenshot taken from Carnival Corporation & plc's sustainability sub-page 'We Are Focused on Decarbonization' on 31 August 2023.

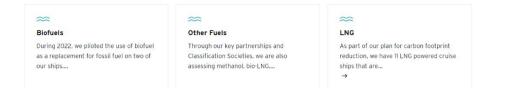


Screenshot taken from Carnival Corporation & plc's sustainability sub-page 'Alternative Fuels' on 31 August 2023.

We support the adaptation of alternative fuels, including liquefied natural gas (LNG) and other bio and synthetic hydrogen-derived fuels. We are proud to have led the cruise industry's use of LNG as an alternative fuel source, with eight LNG powered cruise ships currently in our fleet. As we strive to achieve our 2030 goals and 2050 decarbonization aspirations, the availability and effective adoption of alternative fuels, which have a lower CO2 profile, could impact our organization. That's why our most recent efforts include successfully piloting the use of biofuels, partnering with one of the world's leading methanol producers and introducing new LNG ships to our

fleet.





Screenshot taken from Carnival Corporation & plc's sustainability sub-page 'Alternative Fuels' on 31 August 2023.

| LNG Program Time | line | | |
|--|--|--|--|
| | | | |
| 2015 | I 2016 | 2017 | 2018 |
| AIDAsol | AIDAprima | AIDAperla | AIDAnova |
| 1 st ship with in port LNG capability | 2 nd ship with in port LNG capability | 3 rd ship with in port LNG capability | Our 1 st 100% LNG-powered o |
| | | | |
| | Learn | More | |
| | See Our Latest Report Dow | nload Decarbonization Section | |
| | | | |
| | | | |

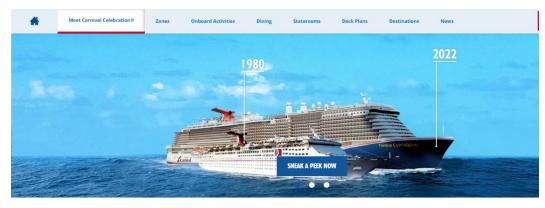
Screenshot taken from Carnival Corporation & plc's sustainability sub-page 'Alternative Fuels' on 31 August 2023.

CARNIVAL CRUISE LINE



CARNIVAL JUBILEE: NEXT-LEVEL FUN, POWERED BY LNG

Welcome — in advance — to Carnival Jubilee! The next ship in line after Mardi Gras[®] and Carnival Celebration[®] has some big flip-flops to fill, and you can count on Carnival Jubilee to take things to the next level with six "zones" of fun. Zones are areas themed to transform your vacation into a unique mix of experiences — hop from zone to zone throughout your day to make your own. (And two of them — **Currents[®]** and **The Shores[®]** — are new, oceany-freesh fun spaces.) We're talking things like the third bistro at sea — **Emeril's Bistro 717[®]** — from our new Chief Culinary Officer; plus Carnival Lassics like **BOLT[®]**, **RedFrog[®] Tiki Bar, Family Feud[®]** Live, **Cucina del Capitano[®], Seuss at Sea[®] and Playlist Productions[®]**. These will be joined by fresh innovations like **The Golden Mermaid[®]** and **Dr.Inks**, **Ph.D.[®]**... plus even all-new onboard fun spots. And every last one of them is powered by clean-burning LNG fue!



Screenshot taken from Carnival Cruise Line's sub-page 'Carnival Jubilee' on 31 August 2023.

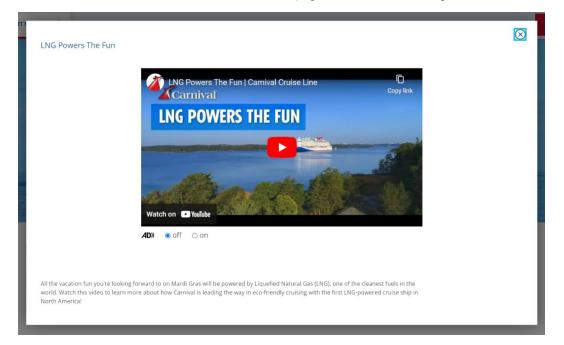
CARNIVAL CELEBRATION: GREAT FUN TOGETHER, ALL POWERED BY LNG

You know, it's hard work making effortlessly-fun vacations. That's why we're looking forward to kicking back with you on the new Carnival Celebration as we toast to the last 50 years. So please bring that unique Carnival spirit... and know that this ship's bringing the fun. Just like sister ship Mardi Gras[®], Carnival Celebration has **six Zones** — themed areas that bring together incredible experiences and flavor. New flavors you haven't experienced yet — nobody has! — are heating up at Latitudes[™], The Golden Jubilee[™] and Emerit's Bistro 1397[™]. (Mmm, new Emeril.) Carnival Celebration also marks the return of innovations like BOLT[®] — our onboard rollercoaster, Bonsai Teppanyakl[™], RedFrog[®] Tiki Bar, Family Feud[™] Live, Havana Bar[™], Seuss at Sea[™], and Playlist Productions[™]. Perhaps best of all, all the fun you'll have on Carnival Celebration is powered by clean LNG fue!!

Screenshot taken from Carnival Cruise Line's sub-page 'Carnival Celebration' on 31 August 2023.

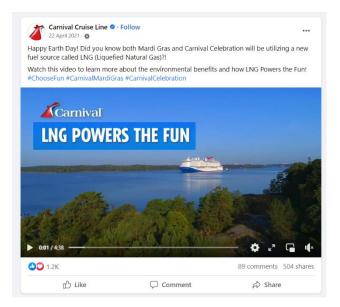


MARDI GRAS: FUN-FUELED VACATION INNOVATION POWERED BY LNG When we launched our first ship, 1972's *TSS Mardi Gras*, we made cruising a lot less stuffy, a bit less fancy, the kind of fun everybody could enjoy. Nobody expected this ship to change the cruise world, but... here we are! So here's a brand-new ship with a familiar name. With this *Mardi Gras*[®] we aren't just paying homage to our first ship — in cruising circles this name suggests innovation, signals the start of something big. Oh, and this *Mardi Gras* still shouts "fun" at the top of its lungs. This ship introduces **Zones** — six themed areas packed with brand-new experiences for eating, drinking and spectacularly getting down to fun. There's **BOLT®**, the first-ever rollercoaster at sea, **Emerl's Bitro 1396**" from yes-that-Emerli, **Family Feud**" Live for everybody... plus incredible new bars like **The Brass Magnolia** and **Fortune Teller**. Everybody can enjoy *Mardi Gras*, sailing now. Come on down!



Screenshot taken from Carnival Cruise Line's sub-page 'Mardi Gras' on 31 August 2023.

Screenshot taken from Carnival Cruise Line's sub-page 'Mardi Gras' on 31 August 2023.



Screenshot taken from Carnival Cruise Line's Facebook account on 31 August 2023.



Screenshot taken from Carnival Cruise Line's Facebook account on 31 August 2023.

AIDA CRUISES

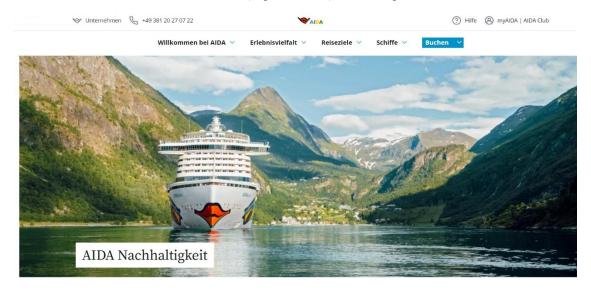
| 🤝 Unternehmen | 🛇 Unternehmen 🖉 +49 381 20 27 07 22 | | AIDA | | | (8) myAIDA AIDA Club |
|---------------|-------------------------------------|--------------------|--------------|--------------|----------|------------------------|
| | Willkommen bei AIDA \vee | Erlebnisvielfalt 🗸 | Reiseziele 🗸 | Schiffe \vee | Buchen Y | |

AIDAcosma & AIDAnova - unsere modernsten Kreuzfahrtschiffe

Erleben Sie jeden Tag eine neue Welt. Unser Mix macht es möglich: von Einzelkabinen bis hin zur Penthouse-Suite, von Spaß, Abenteuer und Erlebnis bis hin zu Fitness, Wellnes und Relaxen. Lassen Sie sich kulinarisch verwöhnen und genießen Sie bestes Entertainment. Wussten Sie schon, dass AIDAcosma und AIDAnova vollständig mit emissionsarmen Flüssigerdgas (LNG) betrieben werden können.



Screenshot taken from AIDA Cruises' sub-page on its ships on 31 August 2023.



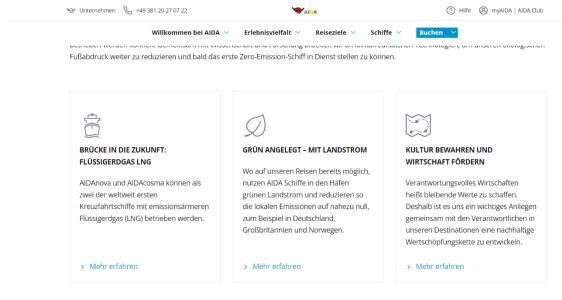
Screenshot taken from AIDA Cruises' sustainability sub-page on 31 August 2023.

| | +49 381 20 27 07 22 | MAIDA | | ? Hilfe |
|---|--|--|---|-------------------------------|
| | Willkommen bei AIDA \vee | Erlebnisvielfalt 🗸 🛛 Reiseziele 🗸 | Schiffe \vee 🛛 Buch | en 🗸 |
| Schutz der mariner bekennen uns klar | n Ökosysteme, einem sparsamen zu den Klimazielen der UN und d | t und unser Antrieb in eine nachhaltig Umgang mit Ressourcen und an neuk ler Europäischen Union. Dieser Kurs n serem langfristigen Ziel: der klimaneu | en, emissionsneutralen A nacht uns zum Vorreiter i | ntriebstechnologien – denn wi |
| | | | | |
| Auf dieser | Seite | | | |
| | Seite hub auf See: Batterie- und Brenr | nstoffzellen-Technologien | | |
| 01 Energiesc | | | | |
| 01 Energiesc 02 Destinatio | hub auf See: Batterie- und Brenr | die lokale Wirtschaft | | |

Screenshot taken from AIDA Cruises' sustainability sub-page on 31 August 2023.

| | 7 07 22 | AIDA | | (?) Hilfe (A) myAlD. |
|-------------------------------|---|--|----------------|-------------------------------|
| Willko | mmen bei AIDA \vee 🛛 Erlebnisvielf | alt 🗸 Reiseziele 🗸 | Schiffe 🗸 | Buchen 🖌 |
| | Direkt zu uns | erem Nachhaltigkeitsber | icht | |
| | | | | |
| Mission: Null Em | nission | | | |
| | | | | |
| konsequentem Klimaschutz. Mit | n sind ein Schlüssel zu kontinuierlic t AIDAnova und AIDAcosma sind ak | tuell zwei Kreuzfahrtschi | ffe unterwegs, | - |
| | oinsam mit Wissonschaft und Fors | the contract of the second sec | | |
| | en und bald das erste Zero-Emission | 0 | | n Technologien, um unseren ök |
| | | 0 | | n Technologien, um unseren ök |
| | | 0 | | n Technologien, um unseren öl |
| | | 0 | | n Technologien, um unseren öl |
| | | 0 | | n Technologien, um unseren öl |
| | en und bald das erste Zero-Emission | 0 | u können. | n Technologien, um unseren öl |

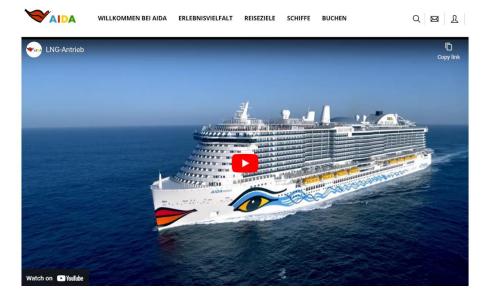
Screenshot taken from AIDA Cruises' sustainability sub-page on 31 August 2023.



Screenshot taken from AIDA Cruises' sustainability sub-page on 31 August 2023.

| AIDA | WILLKOMMEN BEI AIDA | ERLEBNISVIELFALT | REISEZIELE | SCHIFFE | BUCHEN | Q 🖾 🎗 |
|-------------|---|---|--|--|---|-----------|
| | | RÜCKE IN FLÜSSIGE | | | | |
| | Wissensc Flüssigero einsetzen l eine wichtig LNG werden | vor mehr als einem Jahn haft und Wirtschaft die iggas (Liquefied Natural I ögnen. Denn auch wen e Rolle in der maritimer die Iokalen Emissionen vermieden und der Aus erhebi | Frage gestellt, w Gas) zum Antriel In LNG fossilen l In Energiewende I von Feinstaub u | ie wir emissic b von Kreuzfa Jrsprungs ist, zu. Dank des ind Schwefeld | onsärmeres uhrtschiffen , kommt ihm Einsatzes von oxiden nahezu | |
| | | DIE VERSOR | GUNG MI | T LNG | | |
| LNG-Antrieb | | | | | | Copy link |

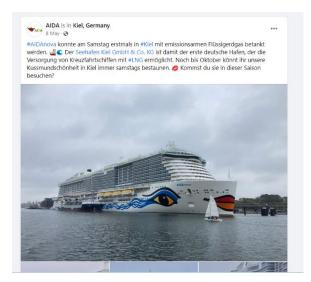
Screenshot taken from AIDA Cruises' sustainability sub-page 'Bridge into the future: liquefied natural gas LNG' on 31 August 2023.



Screenshot taken from AIDA Cruises' sustainability sub-page 'Bridge into the future: liquefied natural gas LNG' on 31 August 2023.

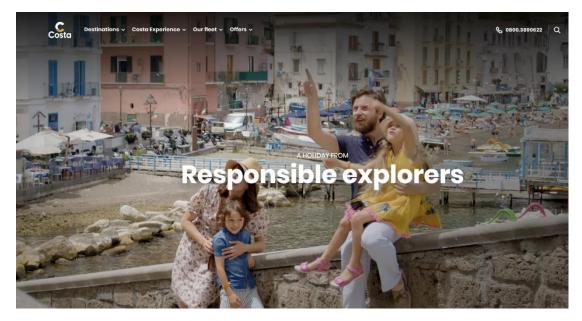
| WILLKOMMEN BEI AIDA ERLEBNISVIELFALT REISEZIELE SCHIFFE BUCHEN | Q 🖾 🏌 |
|---|-------|
| Mit AIDAnova haben wir 2018 das weltweit erste Kreuzfahrtschiff in Dienst gesteilt, das vollständig mit emissionsarmem Flüssigerdgas (LNG) betrieben werden kann. Nach einem Jahr Betriebszeit haben wir eine positive Bilanz ziehen können: Die CO2-Emissionen pro Person an Bord wurden durch die Nutzung von LNG und weitere Maßnahmen zur Senkung des Energieverbrauches um 55 Prozent im Vergleich zum Flottendurchschnitt von 2018 gesenkt. | |
| Ende 2021 haben wir mit AlDAcosma das zweite LNG-Kreuzfahrtschiff in unserer Flotte begrüßt. | |
| Die Nutzung von LNG ist für AIDA nur ein Zwischenschritt, denn der Beitrag von fossilem LNG zur Reduzierung von Treibhausgasemissionen ist begrenzt. Daher arbeiten wir in verschiedenen nationalen und EU-weiten Forschungsprojekten an der Entwicklung von emissionsfreien Antriebstechnologien. | |
| SIE WOLLEN ES GENAUER WISSEN? | |
| Mehr Infos über die Nutzung von Flüssigerdgas (LNG) finden Sie in unseren Nachhaltigkeitsberichten. | |

Screenshot taken from AIDA Cruises' sustainability sub-page 'Bridge into the future: liquefied natural gas LNG' on 31 August 2023.



Screenshot taken from AIDA Cruises' Facebook account on 31 August 2023.

COSTA CRUISES



Screenshot taken from Costa Cruises' 'Experience > Sustainability' sub-page on 31 August 2023.

Home ----- Travel with Costa ----- Sustainability

Even on holiday, we're looking out for the sea

Choosing a Costa cruise means experiencing a holiday that respects the environment and the local communities you'll meet each day in the destinations we explore. What does it mean to be a responsible explore? It means discovering new destinations in harmony with our surroundings, really getting to know the communities that live there, helping us to build a more equitable future for coming generations.





Screenshot taken from Costa Cruises' 'Experience > Sustainability' sub-page on 31 August 2023.

Protecting the sea is our priority



Resources, not waste

100% of the waste collected on board is separated and sorted. In this way, waste is managed with the utmost respect for the environment and becomes resources to be used for innovative projects in a circular economy. Ö

Even less plastic on board We have almost totally eliminated items of disposable plastic. We have also replaced singledose samples, eliminating microplastics from products for cleaning, cosmetics and spa products. \bigcirc

Water, the most precious asset

Fresh water is a limited commodity, which is why **twothirds of that used on board comes from the sea:** the water is desalinated and purified, making it perfect for use on board.



LNG fuelled ships

For Costa Smeralda and Costa Toscana we have chosen the **most innovative propulsion system in the cruise industry.** Liquefied natural gas (or LNG) is in fact the most advanced technology currently available, to guarantee the best environmental performance, reducing emissions.

Screenshot taken from Costa Cruises' 'Experience > Sustainability' sub-page on 31 August 2023.





costa cruises foundation Happiness is for everyone

Screenshot taken from Costa Cruises' 'Experience > Sustainability' sub-page on 31 August 2023.

Home ---- Ships ---- Toscana

The art of experiencing the sea

A holiday on Costa Toscana, our new flagship, will be unforgettable.

Shows and entertainment featuring international artists await you, as well as swimming pools with slides and water games for all ages, a beautiful spa and gym, and so much more.

On our new Costa Toscana you'll be spoilt with excellent gastronomy, with the widest variety of Italian and international restaurants in the fleet.

And that's not all – Costa Toscana keeps the environment in mind, and has new LNG propulsion engines for increasingly sustainable travelling.



Screenshot taken from Costa Cruises' sub-page 'Costa Toscana' on 31 August 2023.

Welcome on board <mark>Costa</mark> Smeralda

----- Ships ----- Smeralda

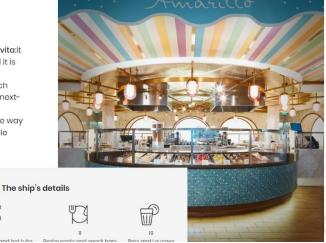
Costa Smeralda is synonymous with the **Italian dolce vita**: is being carefree, it is the breeze ruffling your hair, and it is always overlooking the sea.

You'll be treated to new **performances and shows** each night, an **aqua park** on the highest deck of the ship, a nextgeneration **spa** and **gym** and so much more. Costa Smeralda **cares for the environment**, paving the way

for responsible innovation and increasingly sustainable cruise travel.

Æ

1,550

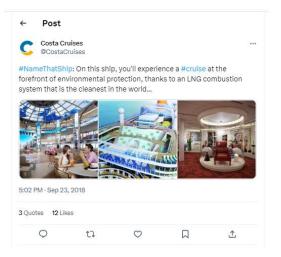


Screenshot taken from Costa Cruises' sub-page 'Costa Smeralda on 31 August 2023.











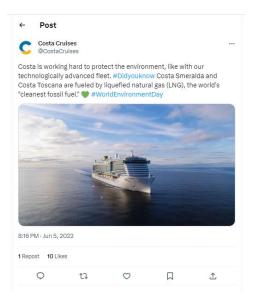


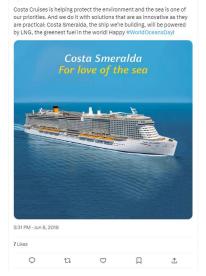
Costa Cruises @CostaCruises

Be one of the first to experience Costa Smeralda, our largest and most innovative addition to our Fleet that's powered by Liquefled Natural Gas (LNG), the cleanest fossil fuel in the world: bit.ly/2CbOFGkl



Screenshot taken from Costa Cruises' X account on 31 August 2023.





 ← Post
Costa Cruises @CostaCruises

Screenshot taken from Costa Cruises' X account on 31 August 2023.







| ← | Post | | | | | | |
|----------|---|----|------------|--|---|--|--|
| | Costa Cruises @CostaCruise | | | | | | |
| exhaus | Using LNG to power #CostaCruises' new ships will significantly reduce exhaust emissions to help protect the environment. #TTOT 3:40 PM - Jul 28, 2015 | | | | | | |
| 1 Repost | | | | | | | |
| (| Ş | t] | \bigcirc | | ⊥ | | |

| ← Post | | | | |
|-------------------|----------------|--------------------------------------|------------------|---------------|
| Costa C @Costa | | | | |
| | st-burning fos | os will use lique sil fuel. #TTOT | efied natural ga | as (LNG), the |
| 3:25 PM · Jul 28 | , 2015 | | | |
| 3:25 PM · Jul 28 | | | | |

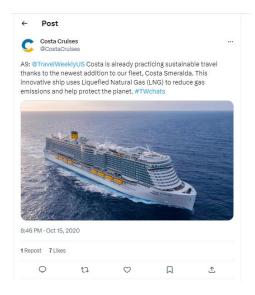
Screenshot taken from Costa Cruises' X account on 31 August 2023.

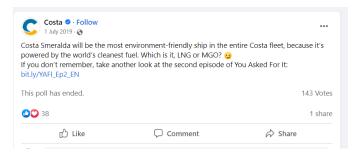


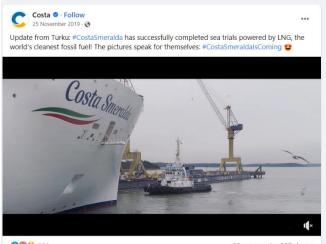




| ÷ | Post | | | | |
|------------------|------------------------------|----------------------------------|-------------------------------------|---|---|
| C | Costa Crui @CostaCru | | | | |
| travel challe | ers, while a enge, our ne | llso being a st ewest ships w | teward for the /ill use Liquefie | the growing nu environment! ed Natural Gas planet. #TWch | To address this (LNG) to |
| | | | | | |
| | | | | | |
| | | - | | | |
| | | | | | Territoria da Carta d |
| | | | | | |
| 8:56 P | M · May 16, 2 | 019 | | | |
| | | | | | |
| 2 Repo | ists 12 Like | s | | | |
| | Q | 17 | \odot | | £ |





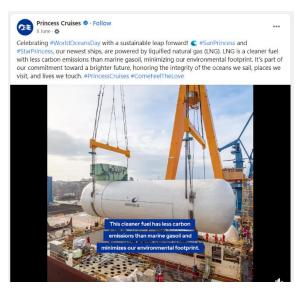


008 550

89 comments 307 shares



PRINCESS CRUISES



Screenshot taken from Princess Cruises' Facebook account on 31 August 2023.

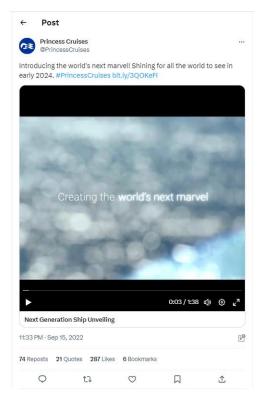


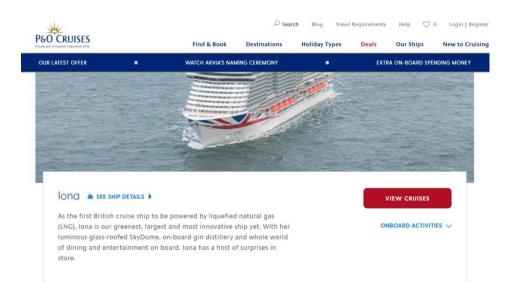
Screenshot taken from Princess Cruises' Facebook account on 31 August 2023.



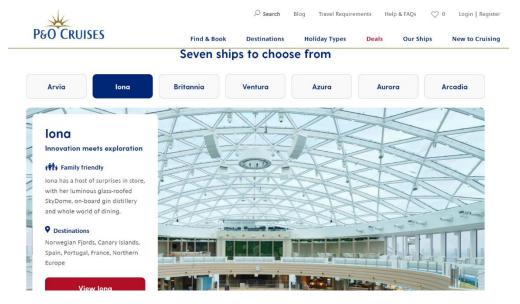
Sun Princess® and Star Princess® will be the first ships in our fleet...

Screenshot taken from Princess Cruises' X account on 31 August 2023.



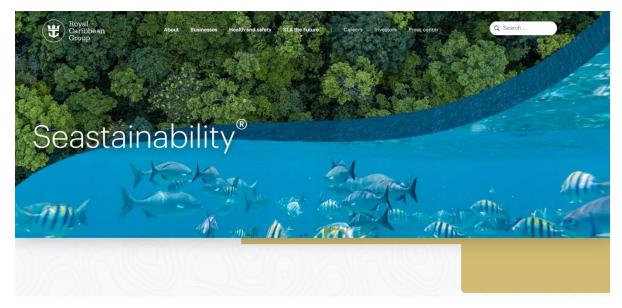


Screenshot taken from P&O Cruises' 'Ships' sub-page on its website on 23 March 2023.



Screenshot taken from P&O Cruises' 'Ships' sub-page on its website on 31 August 2023.

ROYAL CARIBBEAN GROUP



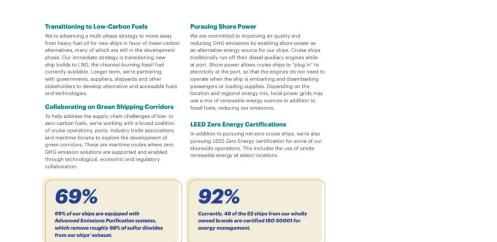
Screenshot taken from Royal Caribbean Group's sustainability sub-page on 31 August 2023.



Screenshot taken from Royal Caribbean Group's Factsheet on 'Energy Use and Air Emissions' downloaded on its sustainability sub-page on 31 August 2023.

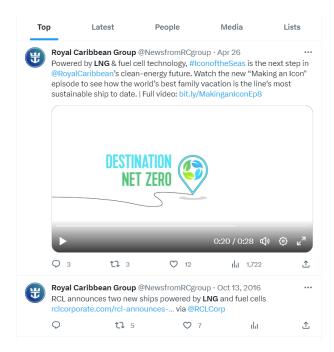


Screenshot taken from Royal Caribbean Group's Factsheet on 'Energy Use and Air Emissions' downloaded on its sustainability sub-page on 31 August 2023.



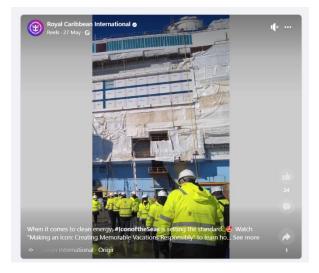
Reducing Emissions with Abatement Technologies

Screenshot taken from Royal Caribbean Group's Factsheet on 'Energy Use and Air Emissions' downloaded on its sustainability sub-page on 31 August 2023.



Screenshot taken from Royal Caribbean Group's X account on 31 August 2023.

ROYAL CARIBBEAN INTERNATIONAL



Screenshot taken from Royal Caribbean International's Facebook account on 31 August 2023.



Screenshot taken from Royal Caribbean International's Facebook account on 31 August 2023.

SILVERSEA CRUISES

In addition to five ultra-luxury expedition ships, Silversea counts six classic vessels in its fleet. Among the most comfortable and spacious ships at sea, each of the cruise line's ships enjoys an atmosphere of elegance, conviviality, and whispered luxury. Silversea has recently welcomed four ships to its fleet since June 2020 – Silver Origin, Silver Moon and Silver Dawn, Silver Endeavour – bringing the fleet's tally to 11.

Silversea Cruises continues to innovate in the ultra-luxury and expedition cruise industries. The launch of *Silver Moon* in October 2020 marked the introduction of Silversea's groundbreaking <u>S.A.L.T.</u> culinary programme. S.A.L.T. enables travellers to dive deep into the world's richest culinary cultures, taking regional food and drink as lenses through which guests can engage with the soul of a destination. Aboard *Silver Dawn*, which joined the fleet in November 2021, guests enjoy the <u>Otium wellness programme</u> – an indulgent innovation in wellness at sea, which, inspired by the Roman lifestyle, focuses on pampering and pleasure over sacrifice and delayed gratification.

In July 2022, Silversea welcomed *Silver Endeavour* to its fleet—the world's most luxurious expedition ship, designed specifically to take travellers to the world's most remote destinations, including both Polar Regions. Complete with state of the art amenities and the highest space-to-guest ratio in expedition cruising, *Silver Endeavour* strengthens Silversea's position as the leading ultra-luxury expedition cruise line, broadening the industry's most diverse polar offering.

Building on the ongoing sustainability efforts of the Group, Silversea will take delivery of two Nova-class ships - *Silver Nova* and *Silver Ray* - in 2023 and 2024, respectively, pushing boundaries in sustainable cruise travel, with pioneering technology that will reduce the ships' carbon footprints. 'Project Evolution' will be the first cruise ship to use fuel cells to provide 100% of power while at port. It will operate using a trio of power sources, including a fuel cell system, battery technology, and dual-fuel engines that use liquefied natural gas (LNG) as the main fuel.

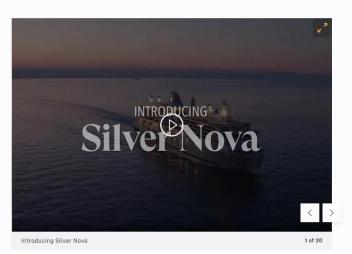
Silversea's largest office is in Miami, at the Royal Caribbean Group Headquarters. The brand also maintains offices in Monaco, the United Kingdom, Germany, and Australia.

To find out more about our corporate and investor relations, please click here.

Screenshot taken from Silversea Cruises 'About Us' sub-page on 31 August 2023.

Silver Nova is more than a new ship by Silversea, it is a Nova way of luxury travel.

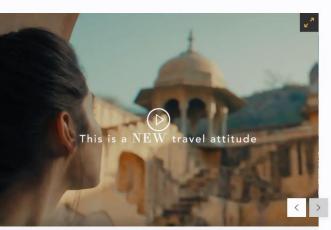
Introducing *Silver Nova* - the twelfth ship to join our fleet. Our newest vessel will join us in summer 2023, and will be a home away from home for up to 728 guests. *Silver Nova's* innovative asymmetrical design introduces the world like never before, offering an immersive destination experience to our guests. With a gross tonnage of 54,700 tons she will offer a space-to-guest ratio of 75 GRT-per-passenger becoming one of the most spacious cruise ships ever built. What's more, *Silver Nova* will be our most environmentally friendly, and thanks to her groundbreaking technological solutions, she will propel Silversee into a new era of sustainable cruising. It's the Nova way to travel.



Screenshot taken from Silversea Cruises 'Silver Nova' sub-page on 31 August 2023.

Silver Nova is more than a new ship by Silversea, it is a Nova way of luxury travel.

Introducing *Silver Nova* – the twelfth ship to join our fleet. Our newest vessel will join us in summer 2023, and will be a home away from home for up to 728 guests. *Silver Nova*'s innovative asymmetrical design introduces the world like never before, offering an immersive destination experience to our guests. With a gross tonnage of 54,700 tons she will offer a space-to-guest ratio of 75 GRT-per-passenger becoming one of the most spacious cruise ships ever built. What's more, *Silver Nova* will be our most environmentally friendly, and thanks to her groundbreaking technological solutions, she will propel Silversea into a new era of sustainable cruising. It's the Nova way to travel.



Silver Nova - A New Travel Attitude

2 of 20



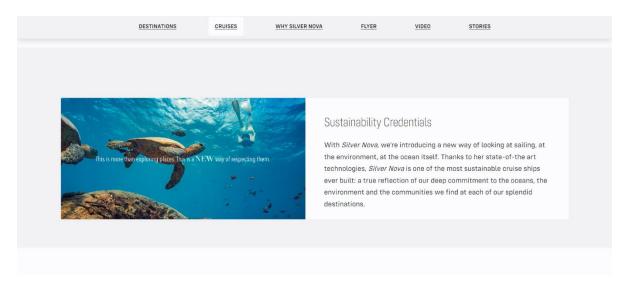
Screenshot taken from Silversea Cruises 'Silver Nova' sub-page on 31 August 2023.

THIS IS SILVERSEA, THE NOVA WAY

Optimising a new vision of luxury, *Silver Nova* revolutionises 21stcentury travel. Our latest flagship will lead our fleet into sustainable cruising, respecting the fragile ecosystems of the remote and remarkable destinations we visit. The ship's pioneering architecture offers a brand new suite experience, including aft suites that deliver stunning 270 'views. Onboard the Silversea, hallmarks are taken to the next level: butler service for every suite, exceptionally high crew-toguest ratio (1:1.3) and outstanding gastronomy. Welcome to the Nova way of travelling.

 $\frac{\text{DISCOVER MORE}}{} \rightarrow$

Screenshot taken from Silversea Cruises 'Silver Nova' sub-page on 31 August 2023.



Screenshot taken from Silversea Cruises 'Silver Nova' sub-page on 31 August 2023.

MSC Cruises



Can cruising be more environmentally responsible?

At MSC Cruises we believe it can be. From introducing the cleanest marine fuel available on our latest ships to our state-of-the-art water treatment facilities, we're putting environmental responsibility at the heart of everything we do. To preserve the see we call home, and change cruising for good.

Our new cruise ships are pushing the boundaries of what's possible at sea. From cleaner technologies to innovative restaurant concepts, our growing fleet is a statement of our commitment to the future of this planet

Discover the Future of Cruising with MSC Cruises

DISCOVER MORE

ALWAYS INCLUDED IN OUR CRUISES

Screenshot taken from MSC Cruises' webpage on 31 August 2023.



Screenshot taken from MSC Cruises' 'Discover the Future of Cruising' sub-page on 31 August 2023.

WHAT DOES THE FUTURE OF CRUISING LOOK LIKE?

Can cruising be more environmentally responsible?



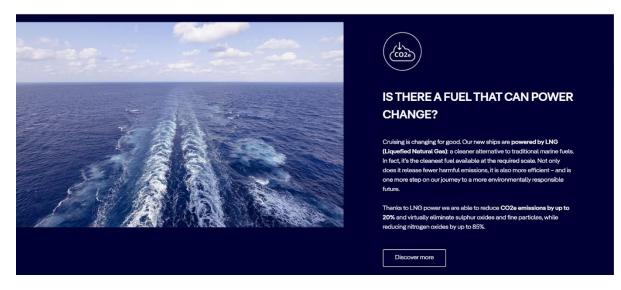
Can cruising be more environmentally responsible?

At MSC Cruises we believe it can be. From introducing the cleanest marine fuel available on our latest ships to our state-of-the-art water treatment facilities, we're putting environmental responsibility at the heart of everything we do. To preserve the sea we call home, and change cruising for good.

Our new cruise ships are pushing the boundaries of what's possible at sea. From cleaner technologies to innovative restaurant concepts, our growing fleet is a statement of our commitment to the future of this planet.

Discover the Future of Cruising with MSC Cruises.

Screenshot taken from MSC Cruises' 'Discover the Future of Cruising' sub-page on 31 August 2023.



Screenshot taken from MSC Cruises' 'Discover the Future of Cruising' sub-page on 31 August 2023.

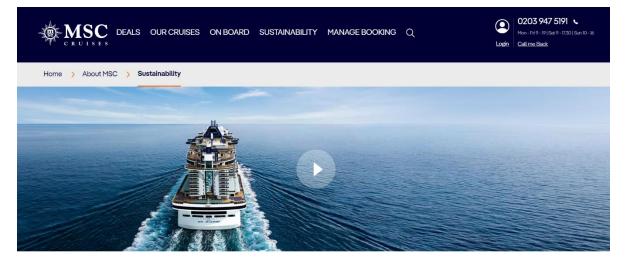
NET-ZERO EMISSIONS BY 2050 - ROADMAP

We recognize that there is always more that can be done and we are constantly challenging ourselves to do better. That's why we are determined to reach **net-zero emissions by 2050**, achieving an overall balance between greenhouse gas emissions (GHGs) emitted and greenhouse gases taken out of the atmosphere or avoided through the production of renewable fuels. To accomplish this goal, we will implement various measures, such as transitioning to renewable fuels, adopting energy-efficient technologies, and optimizing operational practices. For instance, producing and using renewable fuels can significantly reduce overall lifecycle emissions when compared to fossil fuels in a number of ways. One example is the prevention of emissions from agricultural and municipal wastes that can instead be used to produce biofuels, or even by capturing carbon for use in synthetic fuels.

| 2022 | end 2022 | from 2023 | 2023 | 2025 | 2026 and 2028 | by 2027 | 2027/2028 | 2050 |
|---|--|---|--|---|--|--|--|--------------------|
| MSC World Europa, the world's largest LNG-powered cruise shp First to pioneer solid oxide the Loel technology on a large cruise vessel | Carbon intensity reduced by 34% compared with 2008 and by 7% with 2019 | Tristing biotvets with a lower carbon footprint compatible with existing fuel systems and dwetcyping retrofitting kits | MSC Euribia, a new milestone in energy efficiency. Plan to introduce blencied biofuels and bioLNG | MSC World America, steter ship of MSC World Europa | Options for third and fourth LNG-powered MSC World Class ships | Aim to meet IMO intensity ambition of 40% reduction (3 years ahead of industry target) | Aim to start using green liquid hydrogen to power fixel cells onboard | Net zero emissione |

ARE YOU READY TO DISCOVER THE FUTURE OF CRUISING?

Screenshot taken from MSC Cruises' 'Discover the Future of Cruising' sub-page on 31 August 2023.



THE FUTURE OF CRUISING

Screenshot taken from MSC Cruises' sustainability sub-page on 31 August 2023.

THE FUTURE OF CRUISING

Committed to promoting responsible travel and tourism.

"Our goal is clear: for MSC Cruises marine operations to be net zero emissions by 2050."

PIERFRANCESCO VAGO Executive Chairman

Our responsibility: sustainability

Being family-owned means we can invest in the long term,

preserving the planet and its oceans for future generations. Ensuring we travel the oceans with the utmost care,

while respecting the coastal communities we visit.

SUSTAINABILITY REPORTS

At MSC Cruises, sustainability is not just a buzzword but a long term business commitment.

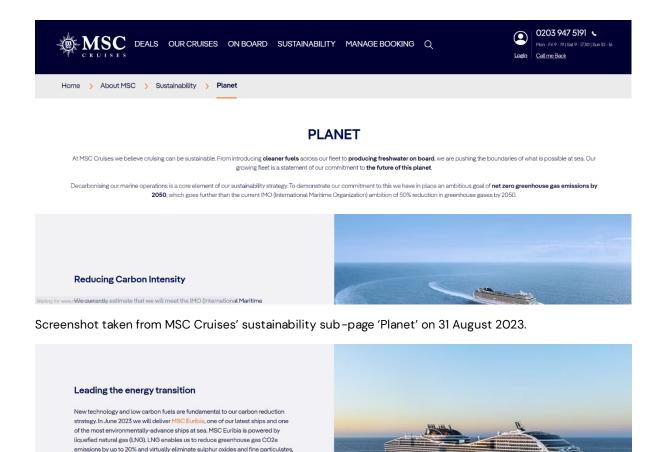
Browse our Sustainability reports to understand more about what we do.

Screenshot taken from MSC Cruises' sustainability sub-page on 31 August 2023.

Our journey towards sustainable cruises is organised around four key pillars: Planet, People, Place and Procurement. This translates into a drive to continuously improve our fleet's environmental performance; caring for all employees and promoting diversity and inclusion; working to ensure that our impact on the coastal communities that we reach remains positive; and responsibly sourcing the products and services that we purchase.

<text><text><text>

Screenshot taken from MSC Cruises' sustainability sub-page on 31 August 2023.



Opportunity Green (Un)Sustainable from ship to shore: Annex

while reducing nitrogen oxides by up to 85%. Our next ship powered by LNG will be

We are also collaborating with technology and energy providers to support and test innovative technologies and deploy renewable fuels to further reduce our

Screenshot taken from MSC Cruises' sustainability sub-page 'Planet' on 31 August 2023.

MSC World America (2025).

emissions.



LNG-powered ship

 LNG will virtually eliminate sulphur oxides (SOx) and particulates, and reduce nitrogen oxides (NOx) by 85%
The elimination of SOx from the fuel means EGCS (scrubbers) will not be required LNG will reduce emissions of greenhouse gases by up to 20%
The hull of the ship (the part below the water) is coated with special paints to

reduce the growth of organisms, reducing drag and maintaining efficiency through the water $% \left({{{\left[{{T_{\rm{s}}} \right]}}} \right)$

Screenshot taken from MSC Cruises' sub-page 'MSC Euribia' on 31 August 2023.



A world where Sustainability meets technology

Experience a world of sustainable cruising on a ship that is designed for immersive and unique experiences at sea. Powered by LNG, one of the world's cleanest marine fuels available at scale, MSC World America symbolizes a new world of cruising and features the very latest technologies to minimise the impact on the environment. With a trailblazing design and striking futuristic silhouette, the guest experience on

with a trailolazing design and striking futuristic sunouette, the guest experience on board is next-level.

See the Sustainability infographic

Screenshot taken from MSC Cruises' sub-page 'MSC World America' on 31 August 2023.

MAIN FEATURES



A more sustainable cruise

MSC World Europa was made with the future in mind. We wanted to set a new standard for the cruise industry.

As our first LNG-propelled new cruise ship, MSC World Europa is a huge step forward in that mission. This next-generation power hugely reduces emissions and marks a millestone on our journey to zero emissions operations.

Her state-of-the-art design also includes the latest water recycling technology, to purify wastewater, and propellers studied to reduce the underwater noise in respect of marine wildlife.

Screenshot taken from MSC Cruises' sub-page 'MSC World Europa' on 31 August 2023.



Screenshot taken from MSC Cruises' X account on 31 August 2023.



Screenshot taken from MSC Cruises' X account on 31 August 2023.



Screenshot taken from MSC Cruises' X account on 31 August 2023.



MSC Cruises UK @MSC_Cruises_UK · Sep 6, 2021 ···· LNG power is yet another step towards our goal of zero-emissions. This technology will be installed on our newest ships, #MSCWorldEuropa and #MSCEuribia, enabling a significant reduction in carbon emissions compared to conventional propulsion.

bit.ly/3h6y1go



Screenshot taken from MSC Cruises' X account on 31 August 2023.



Screenshot taken from MSC Cruises' Facebook account on 31 August 2023.



Screenshot taken from MSC Cruises' Facebook account on 31 August 2023.



Screenshot taken from MSC Cruises' Facebook account on 31 August 2023.



Screenshot taken from MSC Cruises' Facebook account on 31 August 2023.



Screenshot taken from MSC Cruises' Facebook account on 31 August 2023.