

NewWave



RESPONSIBLY SAILING OUR OCEANS & RIVERS

CRUISING TO A SUSTAINABLE FUTURE

10 WAYS TO
SAIL GREEN

\$22BN TO
DELIVER OUR
NEXTGEN SHIPS



Win a 13-day NZ journey and help kiwi birds



A COMMITMENT TO OUR OCEANS

Every year we host millions of guests on the world's oceans, fully aware healthy seas are the backbone of our business. That's why we are committed to bringing the best sustainability practices to our fleet.



Cruising with a sustainable purpose

Many of the world's most extraordinary destinations can now be explored by cruise ship, giving us possibilities we might never have imagined only a few years ago.

But as we explore further upon the world's oceans and waterways, it's vital that we make every effort to protect the places we visit and wherever possible leave them in a better position than we found them.

Across the world, cruise lines are embarking on projects that aim to create lasting benefits for communities. They're also working to minimise their impact on the environment, investing billions of dollars in measures to reduce emissions and protect the waters on which we sail.

Despite its growth in popularity, cruising represents only 1% of international shipping, and just 2% of tourists worldwide. But as an industry, cruising has chosen to be a leader in finding solutions to many of the environmental and social challenges we face.

Late last year, Cruise Lines International Association (CLIA) announced a historic global cruise industry commitment to reduce the rate of carbon emissions across the world fleet 40% by 2030. This will be made possible by advances in ship design and propulsion, including measures such as vessels powered by LNG (liquefied natural gas).

Efforts to achieve greater sustainability also extend into social and economic areas.

Cruise lines are working in developing countries to help create business opportunities and support charitable efforts in areas of health, education, conservation and wildlife protection.

On the following pages you'll learn more about what is happening in the cruise industry to achieve greater sustainability.

Our aim is to ensure your next cruise not only leaves you with lasting memories of incredible destinations, but that it also creates maximum benefits to the communities we visit and minimal impact on the planet.

Joel Katz
Managing Director Australasia,
Cruise Lines International Association



Plastic straw free



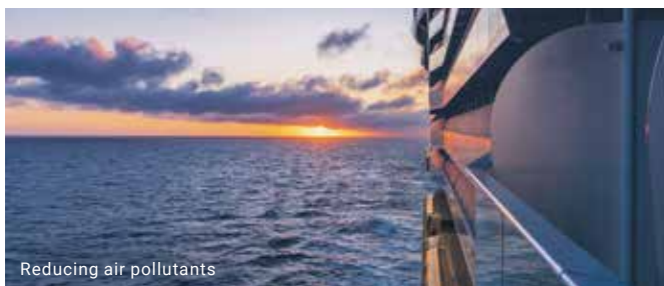
Celebrity Edge's Parabolic UltrabowSM

PLASTIC STRAW FREE

We have eliminated plastic straws, as part of a comprehensive plastic elimination program. Guest can now use paper straws as opposed to plastic.

EFFICIENT SHIPS

We take pride in being a leader in the use of new technologies to build and design ships that are more energy efficient – such as LED lighting, tinted glass, high-efficiency appliances and hull design.



Reducing air pollutants



Protecting the Hawksbill Turtle

REDUCING EMISSIONS

Reducing emissions of greenhouse gases and other air pollutants is an essential part of our environmental stewardship strategy. We aim to minimise air pollution by practices like reducing overall energy use and utilising alternative fuels or renewable energy sources.

WORKING WITH WWF

Royal Caribbean International has proudly partnered with WWF-Australia to protect the hawksbill turtle. Together we are working towards stopping the demand for tortoiseshell products and developing initiatives to better protect this beautiful species in the places they call home.

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WIN A PRINCESS CRUISE TO HELP SAVE THE KIWI

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Helping hands

Cruise lines are joining forces with aid and conservation agencies to support sustainability efforts in many of the amazing destinations their ships visit. These are strong ongoing partnerships where passengers can see positive results. Here's where the dollars go...



1.

P&O Pacific Partnership

P&O Cruises Australia is one of the biggest visitors to the South Pacific. In 2013, P&O and Save the Children Australia joined forces to aid communities in Vanuatu and the Solomon Islands. In 2019, P&O and UNICEF moved to help educate parents in PNG about one of the highest causes of infant mortality in the country, hypothermia. Baby bracelets (pictured above) sound an alarm when the infant's body temperature drops. The \$1 donations of P&O Cruises guests helps meet the costs.

2.

Royal Caribbean and WWF

In 2016, Royal Caribbean partnered with the World Wildlife Fund to help reduce the line's environmental footprint, raise passenger awareness of ocean conservation and support WWF's global preservation work. The initial targets focused on reducing carbon emissions and serving sustainable seafood on RCL's global fleet. WWF and RCL upped their commitment with new 2020 targets for sourcing sustainable key food commodities, like coffee, and tour operators and destinations.

3.

MSC Cruises and ABF

In late 2017, as Haiti struggled to recover from Hurricane Matthew, MSC Cruises partnered with the Andrea Bocelli Foundation to collect donations on board the *MSC Seaside* and *MSC Divina*. Funds raised go towards the ABF Mobile Clinic, which visits schools in some of the poorest areas of Haiti to provide health care and education. The clinic looks after nearly 3,000 school children and extends to their families and teachers. In just six years, the ABF built five schools in remote areas and a community centre in the Cité Soleil slum.

4.

Ponant Foundation

In 2018, luxury and expedition line Ponant announced a dedicated foundation to promote sustainable tourism, focusing on ocean conservation, scientific examination of polar regions and collaboration with indigenous peoples. One of the first initiatives supported was the Aldabra Clean Up Project, which cleared plastic waste from this atoll in the Seychelles. In 2019, the foundation is supporting projects that aim to protect New Caledonia's coral reefs and study the Antarctic's humpback whales.

5.

Norwegian Cruise Line and Wyland Foundation

When the *Norwegian Bliss* was revealed in 2018, her bow sported a stunning painting of a mother humpback whale and her calf by American artist and conservationist Robert Wyland. The hull artwork signified the beginning of a new NCL partnership with the non-profit Wyland Foundation, which is dedicated to promoting, protecting and preserving the world's oceans, waterways and marine life and aligns perfectly with NCL's mission to educate cruisers about marine wildlife, especially on its Alaskan expeditions.

6.

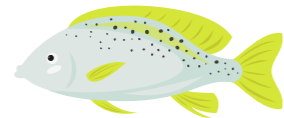
Carnival Australia and the YuMi Project

The YuMi Project is a partnership between Carnival Australia, the Australian Department of Foreign Affairs and Trade, the Difference Incubator and enthusiastic local tourism entrepreneurs in Vanuatu. The project offers authentic personal experiences that give guests deeper insights into traditional living. For example, the Tree of Life Tour involves learning about the 165 different uses of coconuts. The YuMi project identifies and helps local tour operators develop their business.

P&O Pacific Partnership's initiative to reduce infant mortality from hypothermia in PNG. Babies wear bracelets which sound an alarm if their body temperature drops. Parents then 'hug' their babies warm.



\$22 BILLION TO MAKE SHIPS CLIMATE-FRIENDLY



The burgeoning cruise industry has spent huge amounts on making new ships and their current fleet climate-friendly, a new report reveals.

Despite being just one per cent of the world's marine fleets, cruise lines are leading the way in responsible practices and the use of innovative technologies.

Cruise Lines International Association (CLIA) reveals the \$22-billion spend in its 2019 *Environmental Technologies and Practices Report*, which maintains there has been "unprecedented year-on-year progress" in exhaust gas cleaning systems, liquified natural gas and increased shore power.

Some 68% of the global fleet will have exhaust gas cleaning systems, and 88% of new ships will be fitted with shore-side electricity systems.

And cruise ships are getting younger, with the average age of the fleet 14.1 years compared to 14.6 years 12 months ago.

"CLIA Cruise Lines are passionate about clean oceans and committed to responsible tourism practices and the highest standards of environmental stewardship – with policies and practices often exceeding those required by law," said Adam Goldstein, Chairman of CLIA Global and Vice Chairman of Royal Caribbean Cruises Ltd.

"While we are encouraged by and proud of the progress we've made, we know there is still work to be done. The cruise industry is a pioneer in maritime environmental protection and has made a fleet-wide commitment to reduce the rate of carbon emissions 40% by 2030 compared to 2008.

"It's a challenging goal, but the CLIA Cruise Lines fleet is working diligently to meet this aggressive target."

All CLIA Cruise Lines members must meet stringent requirements in Emission Control Areas and International Maritime

Organisation 2020 global sulphur limits. Here's what the cruise lines are doing: **LNG Fuel:** About 44% of new-build ships will rely on LNG as the primary source of fuel. This is a 60% increase in overall capacity compared to last year.

Exhaust Gas Cleaning Systems (EGCS): More than 68% of the global fleet utilises these effective systems to meet air emission requirements. The EGCS reduces harmful sulphur oxide levels by as much as 98%, which means cleaner air. Additionally, 75% of non-LNG new builds will have EGCS installed.

Advanced Wastewater Treatment Systems: All new ships on order are specified to have advanced wastewater treatment systems which help clean greywater. Currently 68% of the CLIA Cruise Lines global fleet capacity is served by advanced wastewater treatment systems (an increase of 13% over 2018).

Shore-side Power Capability: In port, cruise ships are increasingly equipped with the technology to allow delivery of shoreside electricity, thus allowing engines to be switched off, and there are many collaborations with ports and governments to increase the availability. Almost 90% of new vessels are either committed to be fitted with shore-side electricity systems or will be configured to add shore-side power in the future.

Sixteen ports worldwide have the capability of at least one berth shore power – almost all on the east and west coasts of North America, Kristiansand, Norway, Hamburg, Germany, and Shanghai, China.

"The number of ships in the CLIA Cruise Lines fleet far outpaces the number of ports with shore-side power capacity," says the report. "However, there are many collaborations with ports and governments to increase availability."



Natalie's role protecting our seas

Carnival Cruise Line carries environmental officers aboard its ships. Sydney-based Natalie Vecchione explains what the job entails.

Can you take us through your day?

My current role as Environmental Manager assigns me to seven Carnival Cruise Line ships for which I support shipboard and shoreside management in all environmental management and compliance programs. This involves everything from ensuring our waste-management program is properly implemented, supporting the installation of new waste-processing equipment and policies on board ships, speaking with regulatory agencies and reviewing any upcoming environmental laws across the world.

What's the one thing that makes you angry?

I wish more people saw more of the many good things cruising has to offer. If you spend time on a ship or even talk to some of the staff who work on board, you'll see and hear some of the amazing things that happen and how much we love working where we do.

Are you optimistic about the measures that cruise ships are taking to become climate-friendly?

Absolutely, both Carnival and the industry itself are investing in new technologies all of the time, including the introduction of advanced water-treatment systems, food waste digesters and even liquified natural gas-powered ships. As a great example, Carnival has recently announced a partnership with Soap Aid which collects tons of discarded soap bars to be recycled and donated to disadvantaged communities across Australia and the world.

\$22bn

invested in ships with new energy-efficiency technology and cleaner fuels

40%

target reduction in rate of carbon emissions by 2030



WASTEWATER TREATMENT SYSTEMS

100%

of new ships on order to have advanced wastewater-treatment systems

68%

of the global fleet to have advanced wastewater treatment systems



LIQUIFIED NATURAL GAS

26

LNG-powered ships are currently ordered or under construction

44%

of new-build ships to rely on LNG for primary propulsion



EXHAUST GAS CLEANING SYSTEMS

68%

of the global fleet used EGCS to meet or exceed air emissions requirements

75%

of new ships that don't use LNG will have EGCS installed



SHORE-SIDE POWER CAPABILITY

30%

of the global capacity fitted to operate on shore-side electricity

88%

of new ships fitted with shore-side electricity systems or configured so it can be added



Keeping Pacific cultures alive

GETTING SHIPS TO PAPUA NEW GUINEA IS AN AMAZING, INDIANA JONES STORY. TODAY, TRADITIONAL CRAFTS ARE THRIVING THANKS TO TOURISM, REPORTS PETER LYNCH.

When Carnival Australia destination expert Michael Mihajlov suggested Papua New Guinea as the next big thing 10 years ago, many thought he had no chance of making it happen.

The Pacific nation famous for the Kokoda Trail is populated by over 700 tribes and has few mainstream tourism facilities. Even the Australian Government recommends travellers take “a high degree of caution”.

Sure, small expedition ships went there. But an ocean liner? “They thought we had a better chance of taking a large ship to the moon,” laughs Mr Mihajlov.

This year, 28,000 people will cruise to PNG, Vanuatu and the Solomon Islands with Carnival brands. Cruise passengers have provided hundreds of jobs, millions of dollars in income, and been a catalyst for new schools, hospital facilities and saving traditional crafts.

“What gives me most pride? Putting PNG on the map, to be honest,” says Mr Mihajlov. “Our Australian media tends to beat up PNG, focussing on the negative stories. I’ve travelled a lot, and PNG is one of my favourite places to visit. It’s the real thing – it’s wild.

“They see tourism as a great opportunity to connect with the world. P&O and Princess Cruises going there helped change perceptions. I really believe in the next 5-10 years it will be the hottest place in cruising. I like to compare it to Cuba.”

PNG’s arrival on P&O and Princess cruise itineraries is an extraordinary story of adventure and tenacity. It also shows how one industry can keep cultures alive and transform economic prospects.

It started in 2009 when Mr Mihajlov and colleague Mike Drake, who runs Carnival’s marine operations, went to explore PNG. “It’s a fascinating part of the world. It has a trading circle that has been going longer than the Silk Road. We started a lot of conversations to answer the question: How could we do it?”

The answer was to put together a team, including the head of PNG Tourism, a former deputy prime minister and experts, including a hydrographer to test the water depth and an anthropologist to handle cultural matters.

They knew they needed deep-water harbours and jetties. But there was one other important consideration: if PNG’s pristine marine environment and the cultural and social values of its people were not preserved, visitors wouldn’t come and the venture would fail.

“Culturally, PNG has a feeling of authenticity I have never felt anywhere in the world. And socially, we had to work within some of these communities and ask: ‘If you do have large numbers of visitors and money coming into the community, how is that going to change your social structures?’”

The intrepid Mr Mihajlov created a PowerPoint presentation and, armed with a generator to power up his projector for village meetings, set off into PNG’s most remote regions. Some of the islands had had little contact with the outside world since World War 2.

“I had to start from basics: What is a ship? How big is it? I used conceptual comparisons: ‘You have a war canoe that can seat 50 people. This ship is like 200 war canoes.’”

“They call white people their dim dims – and we had to tell them white people have soft feet, so they needed to clean the beach. And I had a picture of Mike Drake’s very white feet. They would laugh – but they got the picture that the dim dims had different expectations.

“We showed them what was on the ship and explained that the dim dims were looking for a different experience – they wanted to see how local people lived, so there was a great cultural exchange opportunity.”

Everywhere he went, there was excitement.

“We have a perception in the West that PNG is a poor country. But a lot of these people have everything they need to survive. The poverty is around poverty of opportunity.

“Giving them a way to interact with the outside world by sharing their own culture, you find a reinvention of local culture and a re-engagement with local culture.

“That’s quite a satisfying outcome: when you see they are taking pride in who they are and what they do, and sharing it with outsiders.”

In many villages, for instance, the traditional straw



Putting PNG on the cruising map: Carnival Australia’s Michael Mihajlov worked with locals to make it happen.

building material had given way to corrugated iron and plastic sheeting. But once residents realised cruise passengers wanted to see the real thing, it created a demand for thatchers.

Suddenly, there was economic value in maintaining tradition – even young people started to learn trades that were in danger.

Another important part of the work was establishing what the locals wanted, which was “better health, better education and better opportunities to trade with other islands”, says Mr Mihajlov.

Some of the islands had been lobbying the fisheries department for decades to get a jetty suitable for larger ships, so they could trade produce. So a new jetty for cruise ships delivered a double-bonus.

The Department of Fisheries contributed to the construction, along with other investors. None of it would have happened, however, without Carnival Australia delivering cruise passengers who brought economic value to the community.

The line hired experts to advise locals on running businesses, from transport to souvenir shops and village guides. “A lot

“ They are taking pride in who they are and what they do, and sharing it with outsiders.”

of the crafts people have amazing product but no concept of how to market it. You may have a carver who has one or two large beautiful pieces, and is thinking of charging \$5,000. It was a case of explaining that if he had smaller carvings of \$50, he would get many sales. We also had to be mindful that ebony, their timber of choice, is scarce. So we suggested rosewood, which is more sustainable.”

Foreign currency is pretty useless to the people of PNG. Carnival arranged for a mobile currency exchange on the pier and, eventually, on the ship.

Finally, on 12 November 2013, *Pacific Dawn* made her maiden call to Alotau, greeted by Prime Minister Peter O’Neill and locals in traditional war canoes. “A lot

The PNG Government funded the construction work to adapt the wharf at Alotau and jetties at several other ports.

Pacific Dawn stopped at Doini Island and the Trobriand Islands during its inaugural nine-night journey.

Mr Mihajlov is deservedly proud. “Absolutely it does give me a buzz. PNG was really a green-field concept. Now it’s a functioning destination.”

A 2015 study by the World Bank estimated the cruise line was delivering \$6 million to the PNG economy.

Mr Mihajlov’s work is still not done. His focus is to try and gear the Pacific “for the next generation of ships, the larger ships”, and continue to assist the locals.

“It’s about: how can we expand the value we bring to the local community? And that’s about the customer experience,” adds Mr Mihajlov.

“Happy people spend more money. It’s a win-win. We have happier customers spreading the word. It’s about getting more value from each of our visits.”

In 2019, there will be 14 voyages to PNG bringing 28,000 passengers to five ports.

A world of discovery



THE UNIQUE SHORE EXCURSIONS GIVING CRUISERS AN INSIGHT INTO THE CULTURES OF THE LANDS THEY VISIT.



Cruise lines are making a conscious effort to educate passengers about the world we live in. Shore excursions, especially, allow guests to learn about the wildlife and local communities.

Experiences giving passengers the chance to participate in hands-on activities and tours which benefit local initiatives are becoming increasingly popular.

Some of the rewarding experiences include dog sledding, volunteering to help wildlife projects, visiting sustainable landscapes and learning about the conservation of ecological systems.

Small ship lines have pioneered immersive, educational shore excursions. Journeys often include dinners with local families so cruisers get the chance to learn

about their traditions and experience what their lives are like today. These events build understanding and lasting friendships.

/ Save a Sea Turtle Experience Royal Caribbean

Mexico's largest island, Cozumel, is teeming with wildlife. The rich waters off the coast of this beautiful destination are a major feeding ground for whales, seals and the adorable sea turtle. Out of the eight species of sea turtles that live around the world, four (the loggerhead, green, hawk's-bill and Kemp's Ridley) make their nests on the beaches of Cozumel and the Yucatan Peninsula. Guests sailing with Royal Caribbean can take part in the Save a Sea Turtle Program. Visitors will learn about the importance of sea turtles

to our fragile ecosystem and about the sea turtles' breeding grounds. You'll also help rescue hatchlings – about 20 per cent of baby sea turtles can't dig themselves out of the sand and need a helping hand.

/ Maruzza Lefebvre D'Ovidio Foundation Silversea

The Maruzza Lefebvre D'Ovidio Foundation is an independent charity providing care for patients with incurable diseases, respecting their moral principles, dignity and quality of life. It provides palliative care for persons affected by life-threatening or life-limiting conditions and their families, regardless of age, cultural, social and economic background. Today, a major part of its energy and resources is dedicated to the diffusion of palliative care for children, babies and adolescents affected by incurable illness.

/ Japanese school cultural experience Azamara Cruises

When your Azamara Cruise visits Hakodate in Japan, guests are given a chance to learn about the ancient traditions of this country from students at a girls' high school. Guests partake in a customary Japanese tea ceremony, and the students give calligraphy lessons. The girls also perform traditional songs and dance on your visit to this stunning 100-year-old building which is now part of the school's infrastructure.

/ Jnr Rangers Program in Alaska Princess Cruises

Alaska is one of the most stunning places on Earth. To learn more about the wildlife and ecosystem, Princess Cruises has set up a special shore excursion for the children. The Junior Rangers Program is a partnership with the National Park Service, and is designed

Left: Save a Sea turtle in Mexico. Right: Huskies in Alaska. Below: Traditional crafts in Indonesia.



to help kids learn about Glacier Bay and the Alaskan wilderness through interactive games, activity books and presentations by park rangers. There are also visits to the husky homesteads where visitors hear about the state's ranching past.

/ Experience local Crete Regent Seven Seas

The stunning island of Crete in Greece is rich in history. And rather than sunning yourself on the beach, Regent Seven Seas offers a cultural tour through Rethymno. The shore excursion includes a visit to the Monastery of Agia Irini, which still serves as a nunnery and is among the oldest in Crete. After visiting the monastery, you'll be offered tastings of traditional handmade sweets,

visit a traditional Cretan bootmaker and see the oldest bakery on the island.

/ Craft villages of Lombok Carnival Cruise Line

The sleepy town of Lombok is full of talented local artisans. Carnival Cruise Line offers a shore excursion to learn about the crafts of this beautiful Indonesian region. See how the artisans carve elaborate designs on masks, decorative wall hangings, calligraphy, frames, animals, trees, storage boxes and more. You can even try your hand at woodcarving to create a little keepsake. The tour continues on to Banyumulek, a village known for its earthenware.

/ Tree planting in New Zealand Crystal Cruises

Ten years ago, Crystal Cruises created the "You Care. We Care" program which offers passengers voluntourism adventures. This year, Crystal revealed more than two dozen voluntourism experiences in destinations around the world. These free shore excursions are offered on most *Crystal Symphony* and *Crystal Serenity* cruises, as well as in select *Crystal Esprit* activities. They are mostly designed for crew and passengers to participate together. One such local excursion is tree planting in Dunedin, New Zealand. The saplings planted will grow into shelter for the yellow-eyed penguins that roam this region.

More examples can be found in cruise lines' sustainability reports at www.cruising.org.au.





OUR COMMITMENT TO SUSTAINABILITY IS FAR MORE THAN SHIP DEEP.

It has to be – because we cruise to pristine places that are among the most perfect on the planet. Nothing of course is more important than protecting the marine environment – that’s central to everything we do. It’s fundamental to our business. Our guests expect it and we expect it of ourselves. But sustainability is also all about the island communities with whom we come in contact on a daily basis. And for us, that means sustaining relationships built on trust and shared values. These relationships have been built over more than 85 years of cruising from Australia and they continue to grow.

The big picture of sustainability also involves helping communities to achieve their full potential. It can involve supporting the development of sustainable enterprises that can share the economic value of cruising. It can be helping Vanuatu communities to develop destination management plans so that cruise tourism leaves a small environmental footprint. Or it can be the guest-funded P&O Pacific Partnership helping to save the lives of thousands of newborn babies in Papua New Guinea.

Our sister brands are just as active. Princess Cruises recently launched ‘Princess Local Partnerships’ supporting conservation and culture in New Zealand initially focused on safeguarding kiwis and other native birds in the Bay of Islands. And Carnival Cruise Line is working with the Soap Aid charity to recycle and sanitise left over soap bars from guest and crew cabins.

We know what it means to work at many levels to achieve a sustainable future – a dream we share with our guests. And that means taking action on a wide front including eliminating the use of plastic on our ships wherever we can. Around the world, our company finds innovative new ways to reduce waste and create a better tomorrow by using the latest breakthroughs in new green technologies. These include LNG-powered ships and onboard Advanced Air Quality Systems to reduce our carbon footprint rate, to date, by more than 25 per cent. Our global company remains deeply committed to the markets it serves throughout the world.

Ultimately, sustainability is about partnerships working together to achieve the best for our communities and for the planet.



THE WORLD’S RIVERS ARE AS PRECIOUS AS OUR OCEANS – AND MUCH IS BEING DONE TO HELP PRESERVE THEM.

“Take memories, leave only footprints”

Avalon Waterways’ philosophy is “take memories, leave only footprints”. The river cruise line will remove single-use plastics, such as straws and water bottles, from its ships by 2020.

Avalon has also committed to a number of sustainability efforts including the use of LED light bulbs, state-of-the-art propulsion systems and upgrades to sewage treatment on board its river fleet.

In partnership with Landmine Design, the line has introduced a social enterprise project aimed at women living in poverty. The initiative has given dozens of Cambodian women the opportunity to work at home, hand-rolling paper beads and crafting them into beautiful jewellery.

Avalon also supports the Wildlife Conservation Network and every dollar goes towards aiding 87 species in crisis.

Boutique line Uniworld has partnered with TreadRight Foundation to monitor and reduce the environmental impact cruising might have on river habitats. The Sustainable River Cruising Project focuses on bringing these measures to rivers such as the Nile, Danube, Rhine and Rhone.

Uniworld is also committed to supporting family-run enterprises and organic wineries in various destinations. The aim is to connect guests with local, sustainable ventures around the world.

Uniworld has announced it will ban single-use plastics on its ships by 2022. And the line is supporting the community of Kanambu in Ecuador by providing access to clean water, developing healthy

“ [Uniworld’s] aim is to connect guests with local, sustainable ventures around the world.”

sanitation facilities and building irrigation infrastructure to assist food production.

Uniworld has a One Tree Planted partnership, where for each guest that chooses to receive their pre-cruise documents digitally, one tree is planted in their name – a simple move that can have lasting impact.

Luxury line Scenic has joined Climate Friendly, an Australian-based organisation committed to funding renewable energy projects. The line has measured 100 per

cent of emissions generated by its business and is taking steps to reduce greenhouse-gas production and offset emissions.

APT Group is also at the forefront of responsible tourism and is focusing on achieving best practice in economic, social and environmental responsibility. In conjunction with Opportunities of Development Thru Art (ODA) and Atherton Rotary Club, APT has built a

school near Siem Reap in Cambodia to provide children with free English classes. For every cruise to Cambodia, APT contributes to the school’s ongoing costs.

Since 2003, the APT Charitable and Conservation Fund has supported wildlife conservation through its donations to animal sanctuaries throughout Australia.

To reduce energy waste, AmaWaterways’ *Zambezi Queen* uses fuel-efficient, low-emission generators by day and battery power at night.

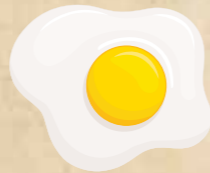
Saving our seas

“**NO INDUSTRY HAS A STRONGER INTEREST IN PROTECTING THE OCEANS WE SAIL AND THE DESTINATIONS WE VISIT THAN CRUISE. IT IS NOT SIMPLY OUR RESPONSIBILITY: OPERATING SUSTAINABLY IS A BUSINESS IMPERATIVE.**”

- CLIA



Almost all cruise lines have committed to reduce their carbon emissions 40% by 2030 and 70% by 2050.



Cruise lines are committed to sourcing food from local producers, including Australian farmers.



The cruise industry recycles 60% more waste per person than the average person does on land.



The cruise industry is building reefs, collecting critical ocean data, restoring fisheries and helping develop best practices for coastal communities.



The cruise industry supports communities worldwide sustaining 1,108,676 jobs equalling US\$45.6 billion in wages and US\$134 billion total output in 2017.



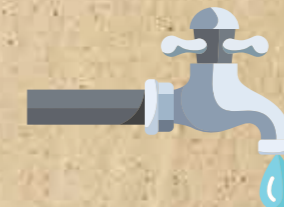
Cruise lines have joined the US Wildlife Trafficking Alliance to help ensure travellers recognise and avoid purchasing illegal wildlife products.



Some cruise lines are supporting efforts to regenerate reefs by regrowing coral fragments in sea nurseries.



Electric-LNG hybrid ships can sail in silence into sensitive, remote areas on battery power.



The cruise industry exceeds international regulations by not discharging untreated sewage into the oceans during normal operations.



93% of cruise ships have eliminated plastic straws, or only provide them on demand. Many have vowed to reduce or eliminate single-use plastics, too.

Showing the world as it is



Nicolas Dubreuil is a polar-regions specialist and head of Expeditions at PONANT. He tells us how much care goes into creating visits to remote parts of our planet.

Q: Why is it important to take people to remote regions?

A: We would like our passengers to be ambassadors for all the amazing places we go – we protect better what we know well.

Q: How important is planning in expedition cruising?

A: PONANT's trademark is all about travelling to places where nobody else goes, to experience earth's wonders by sea. This in turn leads to a responsibility in terms of the people on board, the areas to be visited and the people who live in those areas. Promising to take passengers to places where nobody goes means you have to find out first why nobody goes there!

Q: How do you go about creating a new expedition?

A: Cruises first develop from an initial concept. It may be inspired, for example, by a travel diary taken from the pages of a 17th-century naturalist's notebook, which has me wanting to follow in their footsteps ...

We carefully construct our cruises like a film, with intrigue, plot twists, challenges and joyful moments ... We don't just travel from one beautiful place to another; in fact, we favour routes that tell a story. The second stage is more traditional; before proceeding any further, we check the feasibility of an initial concept from a nautical point of view.

Some parts of the world have not been mapped for a long time, for example, the Scattered Islands off Madagascar, in the Indian Ocean. In Antarctica, the sea charts date from the time of the commander Jean-Baptiste Charcot ... We then speak to ambassadors and associations from those countries to learn about any potential risks to the wildlife, plant life or local populace.

Q: How does the fact-finding phase usually work?

A: We go out on the ground for several weeks in order to identify local providers who can support us ... We meet the local people

and ask them what they want to show. The reality of local people's daily lives in remote areas is sometimes the opposite of the preconceived notions of outsiders. I remember one village in Alaska where they were very proud to give me a demonstration of... hip hop. It was a far cry from dancing to the beat of the drums! Our aim is to show passengers the world as it really is and this can only come about through working in collaboration with native people, and without restricting them in any way. They are often very

“ Our first rule is respect – respect for the local rules... ”

flattered and honoured that people from other countries would like to meet them. I also ask them what they would like to receive in exchange. Some have unusual requests. In the Amazon, one farmer for example, wanted an engine for his canoe so he could take the kids to school!

Q: How do you safeguard the communities you visit?

A: When we plan to visit local communities, our first rule is respect – respect for the local

rules. That means one set of naturalists will disembark and check with the local community if they agree to receive us. If it is OK, we will do the encounters. And afterwards, if they want, we will invite them on board to enjoy our ship. After the cruise, we hold a debriefing with the naturalists to see how we can minimise even further any environmental impact.

Q: How do you evaluate the environmental impact?

A: We systematically carry out an inventory of the biodiversity

of the places where we plan to land, including the plant life, the wildlife, the geology etc, in order to carry out a full environmental impact study. During this survey phase we also check for the presence of dangerous animals and the state of the ecosystems so that we're sure that it's safe for passengers to disembark there.

See Nicolas Dubreuil's full talk here: www.youtube.com/watch?v=UGX8bTdo2EA&t=36s



World Leader of Luxury Expeditions

DISCOVER SUSTAINABLE CRUISING



SUSTAINABILITY AT THE HEART OF PONANT'S SMALL SHIP CRUISES.

Explore the world with PONANT, the youngest and most sustainable fleet currently sailing the world!* Far from being a new concept, eco-responsibility and sustainability has been part of PONANT's DNA since its inception in 1988, from the design of the ships to remote shore landings and operational procedures. Below are just several ways PONANT is maintaining a clean fleet:

Minimising Pollution: One year ahead of international maritime regulations, PONANT's fleet now exclusively uses Low Sulphur Marine Gasoil, resulting in a more than 90% reduction in sulphur oxide emissions - equivalent to just one-fifth of the new requirement, and a 15% reduction of nitrogen oxides.

Protecting the Marine Environment: All PONANT ships are fitted with a dynamic positioning system so dropping anchor is not required in sensitive marine environments.

“Clean Ship” Label: Awarded by Bureau Veritas to all PONANT ships, internationally recognising their reduced environmental impact.

Environmental & Social Impact Assessments: PONANT collaborates with local populations to limit environmental and social impact, creating guidelines specific to each sensitive region, as well as briefings and a code of conduct for guests.

Zero Impact Landings: Every shore landing is subject to a strict protocol with dedicated PONANT teams ensuring that all landings have zero impact on the ecosystem visited, helping protect the fauna, flora and local populations. PONANT is also a member of IAATO (International Association of Antarctica Tour Operators) and AEECO (Association of Arctic Expedition Cruise Operators) who promote responsible tourism in these sensitive regions.

Reducing & Recycling Waste: On board efforts are taken to minimise single-use plastics, while a state-of-the-art waste processing system works to recycle or transform 70% of the ship's waste back into energy.

The PONANT Foundation: Established to preserve the oceans and polar regions, encourage exchange and collaboration with local communities, and to support projects focused on research, awareness-raising and conservation.

Discover all of PONANT's sustainable initiatives by visiting au.ponant.com/sustainable-development



Winner 2019



* Source: NABU Ranking 2019. Photographs © Studio PONANT: Olivier Blaud, Nathalie Michel / PONANT; Nick Rains. ABN: 35 166 676 517



#WeAreCruise

\$4.8 BILLION AND 17,000 JOBS – THE CRUISE SHIP BONUS WE CAN ALL ENJOY.

From left: Shene Estate owners David and Anne Kernke; Shene Distillery's Mackey whisky is widely acclaimed; the estate's roadside stall.



The #WeAreCruise movement was conceived by Cruise Lines International Association (CLIA) and media company Seatrade Maritime to highlight the businesses and communities that benefit from cruise visits. These are some of their stories.

The beautiful Shene Estate & Distillery in Pontville, just outside Hobart, was bought by Anne and David Kernke in 2006. The couple saved the convict-built property from deterioration and opened a distillery on the site.

The Kernkes say tourism has been vital for the conservation of the historic 1819 property. The couple welcomes international visitors to tour the estate – especially its Gothic Revival stables – and sample their acclaimed Poltergeist gins and Mackey single-malt whisky. Proceeds go towards helping fund the estate's ongoing restoration.

"Cruise ship passengers support the conservation work we're doing here, through their visitation," says Anne Kernke.

"It gives them an opportunity to get a taste of what Tasmania is like. They tell the story when they go home to their family – how they've visited this estate and how significant it is in early Tasmanian history."

Cruise tourism injects about \$4.8 billion into the Australian economy each year and supports more than 17,000 full-time jobs.

Across the ditch in New Zealand, cruisers can often spot Perry Reid roaming Otago on his ATV, casting his watchful eye over the wildlife, flora and fauna.

Perry, who takes visitors on eco-tours around the region, says cruise passengers play a vital role in conserving and safeguarding the wildlife habitat.

"This area is special not only in New Zealand but in the world," says Mr Reid.

"The cruise ship passengers that come here are helping with our conservation. They don't only help financially, they also spread the word – they're literally taking the message to the world."

Mr Reid's Dunedin-based company, Natures Wonders, brings cruise passengers to see the Otago Peninsula's colonies of penguins and seals. Cruisers learn about how the company protects the area, and their contribution also helps fund the restoration of native vegetation.

Cruise tourism injects more than \$490 million into the New Zealand economy each year and supports more than 9,100 full-time jobs for locals, so Natures Wonders' story is just one of many successes for the local cruise community.

In America, the north-eastern state of Maine has welcomed cruising with open arms. The state, famous for its fall foliage and variety of seafood, is a popular destination on New England cruise itineraries.

Micah Philbrook, whose entire family works in the local lobster industry, says, "Cruising in Maine helps a lot and brings extra tourists to Maine. And it promotes the whole lobstering brand. I'd definitely like to see more tourists visit and enjoy what we have to offer."

While on the popular Greek island Santorini, local shop owner Opi says, "Every day we welcome cruise passengers who come here to admire the special beauty of Oia. I am happy to serve cruise passengers because they are always in a good mood and they transmit their positive energy to us."

"Cruises contribute significantly to the growth of our island's economy."

“Cruise ship passengers support the conservation work we're doing here, through their visitation.”



Win

TELL US YOUR GREEN TRAVEL TIPS & WIN A 13-DAY NEW ZEALAND CRUISE WORTH \$6,918 ON RUBY PRINCESS™



Princess Cruises will take you across the ditch to majestic destinations in New Zealand aboard the *Ruby Princess*™. This is *Ruby's* first season Down Under and on this spectacular cruise, your first port of call will be the picturesque Bay of Islands. It is one of the most important sites in Kiwi history and here, you will be welcomed by the local Maori community.

From the Bay of Islands, you will sail to Auckland, Tauranga, Napier, Wellington, Akaroa and Dunedin before sailing to Fiordland National Park.

The prize is for two (2) guests and includes:

- A 13-day New Zealand cruise from Sydney in a balcony stateroom
- All main meals, excluding specialty restaurants
- Onboard entertainment
- All taxes, fees, port charges and onboard gratuities
- AUS\$200 onboard spending money

HOW TO ENTER

Go to cruiseassenger.com.au/competitions and tell us: What is your best environmental travel tip? Terms and conditions apply. See cruiseassenger.com.au/competitions



Princess Cruises helps save the kiwi bird

In an extraordinary example of how cruise passengers can make a difference to the communities they visit, Princess Cruises has set out to revive New Zealand's iconic kiwi bird in the Bay of Islands.

With a \$100,000 donation from the line in the first year, the project aims to raise \$1 million for community groups committed to conservation efforts and forest regeneration in the Bay of Islands and Northland.

It's all part of the Princess Local Partnerships program, and will encourage the return of the kiwi and other native birds to an area often visited by Princess ships. The line will work with volunteer groups Kiwi Coast and Bay Bush Action.

Stuart Allison, Princess Cruises' Senior Vice President Asia Pacific, said it made sense to begin the Princess Local Partnerships in New Zealand.

"One of the reasons our guests come back to New Zealand again and again is because they like the unique wildlife," she says.

"Princess Local Partnerships is an extension of that deep relationship that already exists between the cruise line and its guests for communities across the Tasman. Our research tells us guests want to connect more deeply with the places they visit and give back to the local communities who so generously welcome us into what is effectively their backyard."

- Key projects the fund will support include:
- Tree planting across streams, wetlands and forests around Waitangi and Kerikeri in the Northland region.
 - Funding the development and publication of resources that can be used in conservation education for children across Northland.
 - Supporting the rollout of a school program to raise awareness about protecting forests. The program includes children adopting, painting and monitoring special kiwi houses to protect the birds in the forest.



The road less travelled

ICONIC MAJOR CITIES MIGHT BE THE ITINERARY ROCK STARS, BUT SMALLER PORTS PROVIDE REAL OPPORTUNITIES TO EXPERIENCE LOCAL LIFE AND CULTURE. HERE ARE SOME SMALLER EUROPEAN PORTS TO EXPLORE.

Greece

/ Thessaloniki

Greece's second-largest metropolis after Athens, this port city is rich in history. In Thessaloniki's upper town you'll find the 4th-century Roman palace complex of Emperor Galerius. The rotunda within the palace grounds has served as both a church and a mosque. On the waterfront, must-sees are the landmark White Tower, a former Ottoman prison, and Aristotelous Square, which gives a taste of buzzing Greek city life.

/ Syros

This island east of Athens has just 21,000 residents. Cruise ships dock in the capital of Ermoupolis, giving cruisers easy access to its creamy white neighbourhoods and neoclassical architecture. Ermoupolis owes its name to Hermes, the god of trade, and the town's prosperous past is evident in its old mansions, marble-paved streets and squares, as well as the imposing churches and statues. Golden sand beaches are never far away.

/ Spetses

This small island boasts a long naval tradition and is famous for its contribution to the Greek Revolution – the flag of independence was raised here on 3 April 1821. Spetses is also home to grand and well-preserved sea captains' mansions. Take a walk along the picturesque old harbour, visit the House of Hatzigiannis Mexis, which exhibits relics from the War of Independence, or explore the island's beaches. Spetses hosts a naval battle re-enactment in September and the biggest triathlon in Greece in April.

/ Rethymnon

On Crete's north coast, the city of Rethymnon has preserved much of its Venetian and Turkish architectural heritage, with Venetian fortifications and mansions mingling with mosques and Orthodox and Catholic churches. Its beautiful Venetian harbour is dotted with fishing boats and lined with cafes, while a beach hotel strip stretches from the east end of Rethymnon. Between June and August, you can view turtles returning to lay their eggs.



Spain

/ Alicante

The port city on Spain's south-east coast boasts numerous seafood restaurants and nightclubs in walking distance from docked cruise ships. Alicante is a bustling harbour which attracts many cruise lines, but it is a quieter alternative to Barcelona. Along the wharf, the distinctive tri-colour marble-tiled Explanada de Espana is perfect for evening strolls. For a challenge, hike up to the medieval Santa Barbara Castle and its sweeping views of the Mediterranean coast. Cool off at one of the city's golden beaches.

/ Palamos

This fishing village on the coast north-east of Barcelona is rich in Catalan culture and a delight for seafood lovers. The small streets of the old town centre are best explored

on foot. At the fishing museum, you can learn about the traditional methods used to bring in the catch of the day. Palamos also has several sprawling beaches, as well as some smaller coves that are perfect for a little quiet time.

Italy

/ Gaeta

Nature enthusiasts will enjoy this port in central Italy which is home to the Monte Orlando urban park. There are stunning views, bike trails, bird-watching and also one of the best-preserved Roman tombs in Italy. On the headland you'll find the impressive Split Mountain, a cleft in the rock which legend says was caused by an earthquake that came upon at the moment of Christ's death. One of the crevices is now a marine cave and commonly known as the Turk's Grotto.

Left: Greek history in Spetses. Above: Spanish fun in Alicante. Below: Italian charm in Gaeta.

/ Lipari

This island, off the north coast of Sicily, is the largest and most accessible of the Aeolian Islands. Lipari is the nearest thing the islanders have to a capital city. Sail up to the port on its pastel-coloured seafront and visit the historic castle or the archaeological museum, which houses artefacts from all over the Aeolian Islands. Alternatively, go straight to the source: the excavated area inside the citadel reveals the many layers of habitation.

/ Santa Margherita

Santa Margherita is a small town where you can watch local fishermen unloading their catch in the early morning. Take a walk along the palm-lined harbour, head to the small beach or enjoy the quiet buzz of the marina from a quintessential bar or café. The town is a charming hideout, just six kilometres north of Portofino.



Town crier Alan Moyse welcomes cruisers to Eden. Opposite: Cruise Eden volunteers Danyon Pilbeam and Abbey Ellison.



The town that loves cruise

ONE TINY TOWN ON THE NEW SOUTH WALES SOUTH COAST IS ABSOLUTELY DELIGHTED AT THE PROSPECT OF CRUISE PASSENGERS STEPPING ASHORE. ROSE JACOBS REPORTS.

For the locals of Eden, a small coastal town equidistant between Sydney and Melbourne, the date of Sunday September 15 had been clearly marked on their calendars for some time. It's the day they wheeled out their jazz band, opened their welcome banners and donned their biggest smiles for the much anticipated arrival of the first cruise ship since the completion of the Port of Eden upgrade. And when P&O's *Pacific Explorer* docked, the town exploded in celebration.

The new port has been 14 years in the making, cost \$44 million and is expected to rake in millions more dollars for the local economy, boosting jobs and encouraging investment in the region. The key feature of the new port is that it will allow larger cruise ships to dock right at the wharf, doing away with the need for tenders and easing passenger disembarkation.

Eden is just another example of how the cruise industry creates jobs and gives an increasing number of smaller Australian destinations the chance to share in a growing tourism sector.

Natalie Godward, Port Authority of NSW cruise development manager, is keen to see the wharf entice more passengers ashore to enjoy all the Sapphire Coast has to offer: nature, food and wine experiences top the list for local tours, encouraged by the region's stunning natural features. Big drawcards are whale-watching tours, kayaking, local seafood, Ben Boyd National Park and the Killer Whale Museum.

While it has been no stranger to activity, NSW's southernmost deep-water harbour is now enticing passenger vessels up to 325 metres in length into Snug Cove,

including calls from lines like Norwegian Cruise Line as well as luxury ships from Regent Seven Seas and Celebrity Cruises.

In addition to the wharf upgrade, the Port Authority has committed to opening a new welcome centre in Snug Cove. It is anticipated to be operational in time for the 2020-21 cruise season.

No wonder Eden residents are smiling.

/ **Bob Sykes**

Cruise Eden Volunteer Coordinator

"Being a volunteer for Cruise Eden is both exciting and exhausting. We've been working hard since the bigger cruise ships started arriving five or six years ago now, and we've seen the ships grow from around six to eight per season to around 22 per season.

We have roughly six to eight volunteer staff on any given day, when a cruise ship is in town. We arrive at the wharf at 6am and set up the marquee down near the visitor's centre and from there we will sell souvenirs and promote the market stalls selling local produce and wares. We stay till the ships leave at around 4pm.

Occasionally we suffer volunteer fatigue but, overall, it's such a positive vibe and we get so much reward from seeing the response from our visitors and their feedback – we only ever get positive feedback.

It's great we are still growing and the new wharf means we'll need to introduce some paid positions – but eventually the welcome centre that's next on the cards for development will make it a lot easier for the volunteers.



We have a real cross-section of volunteers here, and it's especially great for our senior volunteers who have such a strong knowledge of the region, plus it gives them a great opportunity to engage with tourists and to play an important role in our community.

In fact, I've heard that people aren't just choosing to return to the area for overnight visits and holidays, but people who have come to Eden on a cruise have moved to live here because they loved it so much!"



/ Natalie Godward

Cruise Development Manager, Port Authority of NSW

“We are really excited about this new sense of certainty – instead of trying to battle with bad weather and passengers who don’t want to bother with tenders, we can now expect cruise lines to commit to arriving in Eden.

We are already seeing a huge jump in cruise ships booking into our new port, including Royal Caribbean who weren’t ever going to come in the past because it was all just too hard.

The benefits of putting Eden on the map for our domestic cruise ships is also fantastic, because it means we are spreading the word to tourists who may want to return by land next time. At this stage it’s hard to put a number on it, but we are looking at about 70 per cent of domestic passengers saying they would ideally like to return to Eden.

We are really excited about sharing what we feel is one of Australia’s best-kept secrets. We are 75 per cent national parkland and we have 400 kilometres of pristine beaches, so it’s the perfect place to stop and enjoy local wine and oysters, sitting on a beach in Eden.

It’s also the perfect cruise for Aussies to take when they can only escape for a long weekend. You can leave on a Friday afternoon, cruise to Eden and back for the weekend, and return to work on Monday, feeling like you’ve been on an amazing escape to somewhere completely new.”

/ Kristy McBain

Bega Valley Shire Mayor

“The port of Eden is spectacular. And it’s beautiful now to be able to share that with cruise passengers from around the world. The hope is that we will be able to cement Eden as a popular tourist destination. We want to promote business growth with a particular focus on local tours and hospitality experiences.

The point of difference for this area is that it’s one of the last untouched slices of paradise in Australia. We have the second-deepest port in the Southern Hemisphere and we are home to two whale migrations per year, plus we have loads of cultural heritage to promote. From our local oysters and seafood to our warm local hospitality experience, combined with tours, we have so much to offer.

We’re really proud now of our micro-breweries, our artisan breads, and Bega cheese is very popular in the area too. We’ve been very lucky with the volunteers from Cruise Eden. From students at the local high school to retirees, so many people have been coming forward to donate their time and energy and it has made a real difference.

We’re also very proud of how clean and beautiful our region is. Council is strongly encouraging the growth of local businesses and also for them to keep on growing from the experiences increased cruise ships will bring. There are advantages in the fact our cruise ship visitation is as a day port, it gives us that focus.”

/ Brett Weingarh

Owner of Captain Sponges Magical Oyster Tours

“When I first had the thought of running an oyster farm tour just four years ago, I didn’t act on it until I knew that we would have cruise ships coming in... it really was what you’d call a business decision based with a cruise catalyst. But knowing we would have a cruise audience, I was looking at a steady baseline of passengers to work off. And now, knowing we will be having 20-40 ships coming into Eden is what has made it all far more interesting for me as a business owner.

Thankfully, no one else is doing tours like mine. But it’s definitely the cruise side of the business that’s made it work out. When I first set out, I bought a boat and then I saw strong growth in a short period of time. In the first year, business doubled and then doubled again. Now with the new wharf, I’m looking at people walking off a lot easier and quicker – this access is going to make a huge difference to my tour numbers.

For me, it’s really fun to see the impact on the international visitors, they see it as the highlight of their cruise – they love it! Not many people run oyster tours like mine anywhere else in the world. And Eden is such a great spot to be, it’s so picturesque.”



THE OCEANS AND SEAS HAVE ALWAYS BEEN AT THE HEART OF MSC CRUISES



Water Preservation

All fresh water used on board is self-produced.

Our fleet can transform up to 3 million litres of seawater into drinking water in one day.

Plastics Reduction Programme

90% of single use plastics have been replaced with environmentally-friendly solutions.

State of the Art Waste Management & Recycling Facilities

Every ship has an Environmental Officer to oversee procedures.

MSC Foundation

Created in 2018 to support causes that protect and preserve the oceans.

Improving Air Emissions

By 2021 all of our ships will be equipped with Hybrid Exhaust Gas Cleaning System (EGCS).

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Ships of the future

“The world's first LNG ship, AIDAnova, made its debut last year and 26 more gas-powered vessels will launch by 2026.”



Similarly Aurora Expeditions' new vessel, the *Greg Mortimer* which launches in October 2019, will use virtual anchoring technology to hold the ship's position while launching zodiacs and kayaks.

/ Advanced water purification
Cruise lines are also refitting their ships' wastewater purification systems with advanced technology that cleans wastewater from sinks, showers, laundry, galleys, toilets and medical facilities. On Norwegian Cruise Line, every ship's wastewater is tested quarterly and environmental officers conduct weekly water-quality tests.

/ Window tinting
Royal Caribbean uses tinted windows across its fleet to minimise the amount of solar heat entering the ship, meaning less use of air conditioning. The tinting also protects the interiors and furnishings from sun damage. Princess Cruises has trialled the use of electrochromic glass, which automatically tints when the sun is shining.

/ Food-waste reduction
Costa Cruises collaborates with galley equipment supplier Winnow to successfully monitor and prevent food waste using modern tracking technologies. The line has pledged to reduce food waste by 50 percent fleetwide by 2020.

/ Garbage-disposal technology
The new and technologically advanced *Celebrity Edge* has a state-of-the-art machine on board that disintegrates garbage into water and dust. Rather than burning waste, the method uses high-pressure water and high heat.

More examples can be found in sustainability reports available at www.cruising.org.au.

CLIA CRUISE LINES ARE INVESTING HEAVILY IN NEW TECHNOLOGY TO MEET THE STRICT SUSTAINABILITY TARGETS THEY HAVE SIGNED UP FOR. HERE ARE JUST SOME EXAMPLES OF THE WORK THEY ARE DOING. VANESSA WU REPORTS.

/ Gas power
In a bid to reduce emissions, cruise lines are building ships that are powered exclusively by LNG (liquefied natural gas), a fuel which is much cleaner than diesel. The world's first LNG ship, *AIDAnova*, made its debut last year and 26 more gas-powered vessels will launch by 2026. In 2020, *Iona* will join P&O Cruises and *Mardi Gras* will join Carnival Cruises. Ponant will have its first LNG-powered expedition vessels by 2021 and Royal Caribbean also has three ships on order, with the first due for delivery in 2022 forming the line's new Icon Class.

/ Fuel cell technology
Cruise ships are beginning to incorporate new fuel cell technology, a method in which electricity is created by a chemical reaction, producing very little pollution. NASA has been using this power method for the past few decades, and fuel cells have successfully supplied electricity

on spacecraft. Royal Caribbean has been testing the technology on ships in its Oasis and Quantum classes. The cruise line also hopes its upcoming Icon-class ships will be powered by a combination of LNG and fuel cell technology. AIDA Cruises is also set to trial fuel cells in 2021.

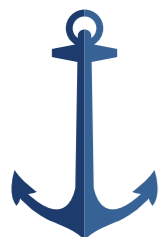
/ Futuristic hull designs
To reduce fuel consumption, some cruise ships are installing Air Hull Lubrication systems to reduce the resistance between the ship's hull and seawater. The system generates air bubbles which coat the bottom of the ship, helping it cut through the water more efficiently. It also reduces fuel consumption by about 5.5 percent.

The *Greg Mortimer* will be the first expedition ship to feature an X-Bow hull design which pierces waves with more stability, making sailings smoother. Aurora Expeditions anticipates that it will be able to shorten the two-day crossing

of the Drake Passage on the way to Antarctica to one and a half days – and use less fuel.

/ Virtual anchors
The new mega-yacht *Celebrity Flora*, which was built specifically for the Galapagos, features anchorless technology that maintains the ship's position without disturbing marine life or causing damage to the ocean floor and fragile reef environments.

Clockwise from main photo: the new ships using green technology *AIDAnova*, *Greg Mortimer* and *Celebrity Flora*.





Be a green machine!

HERE ARE **TEN** WAYS YOU CAN MAKE A DIFFERENCE.

- 1**
✓ **Bottle it up**
Staying hydrated is important – but there's no need to use disposable plastic bottles. Choose metal or BPA-free plastic for your reusable canteen, and fill it up at the gym or dining room.

- 2**
✓ **Make sure it all comes out in the wash**
Keep harmful chemicals out of the water supply by using only all-natural, biodegradable soaps and shampoos. Carnival Cruise Lines now collects your unused soap for charity Clean the World which reprocesses the bars for poor communities.

- 3**
✓ **Wipe out wet wipes**
Don't use wet wipes as they clog drains and toilets. For make-up removal, cut up old towels or use micro-fibre towelettes. Also, reuse your bath towels in your cabin by hanging them up so they won't get laundered every day.

- 4**
✓ **Shop but don't drop your own bag**
We know single-use plastic bags are a no-no, so try reusable dry bags for your toiletries and water bottles.

- 5**
✓ **Don't bug the bugs**
Make sure your insect repellent is made from natural ingredients so it won't harm the environment

- 6**
✓ **Make sure your food is glorious...**
Make sure your food is sourced locally and ethically – you don't want it to have been flown halfway around the world. If there are no ethical options, ask why not!

- 7**
✓ **Say g'day**
Respectfully engage with local communities and learn about their lives. Many are proud to tell you about their customs and want to learn about yours. Buy food and other goods on shore to spread the wealth and pay back their hospitality.

- 8**
✓ **Shore thing!**
Make sure your shore excursions are sustainable and don't involve exploitation of animals. Try to buy sustainable souvenirs and ones that help local craftspeople and producers. Respect communities and their customs.

- 9**
✓ **Turn off the lights...**
... and the air-con in your cabin. Don't leave a plastic card in the switch or cabin power will continue running while you're out.

- 10**
✓ **The last straw**
We all know plastic straws are harmful, particularly to sea life. If you need a straw, bring your own reusable one.

Cruise with confidence

How do you find the cruise that's right for you?

Here are six ways a CLIA-accredited travel agent will keep you shipshape.



TALK TO AN EXPERT

Travel agents accredited by Cruise Lines International Association (CLIA) have completed additional education and training to become cruise specialists. Visit www.cruising.org.au to find your nearest CLIA-accredited agent.



SAVE TIME

A specialist travel agent will have a world of information at their fingertips, saving you hours of doing your own research online.



PROFESSIONAL ADVICE

CLIA-accredited travel agents can give professional advice on every aspect of your travel, often from first-hand experience.



A PERSONAL TOUCH

A specialist travel agent can recommend cruise options that best suit you. Your holiday will be bespoke – personally tailored for you.



SUSTAINABLE CRUISING

A CLIA-accredited travel agent can help answer your questions about the cruise industry's sustainability initiatives.



PEACE OF MIND

Your travel agent can assist if you experience any disruption while you're travelling. They'll be able to take charge when you need help.



Book through a CLIA-accredited travel agent.

See www.cruising.org.au

SAIL SUSTAIN

Preserving Our Environment for Future Generations



NCLH

NORWEGIAN CRUISE LINE
HOLDINGS LTD.

Norwegian Cruise Line Holdings aims to provide exceptional holiday experiences while at the same time, fostering a culture of awareness and respect for our world's natural resources and in the communities where we operate. We continue to make progress on our global environmental programme "Sail & Sustain" and on our goals to increase sustainable sourcing, minimise waste to landfills, invest in emerging technologies and reduce CO₂ emissions.

SUSTAINABILITY EFFORTS

WATER CONSERVATION & ONBOARD PRODUCTION

71% of the planet is covered in water, so we have strict discharge policies and use the latest technologies to treat all wastewater generated onboard.

WASTE MITIGATION & RECYCLING

A rigorous and progressive waste management programme ensures that our ships take advantage and reduce waste to landfills.

COMMUNITY & ENVIRONMENTAL OUTREACH

Through our outreach initiatives, we remain committed to having a positive impact on our local communities, those we visit and on the local ecosystems through which we cruise.

FUEL & ENERGY EFFICIENCY

As leaders in the cruise industry, we believe it is our obligation to do our part to help mitigate actions that may influence changes to our climate on a large scale.


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