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*The design of the ships' bulbous bow, along with an innovative hull coating that is 100 percent non-toxic to the marine environment, is both effective at reducing resistance in the open water and increasing fuel efficiency.*



*Guests are encouraged to get involved in conserving water and energy.*



*Condensation from the ships' onboard air conditioning units is recycled to supply fresh water and used to clean the outer decks of the ships.*

# Environmental Overview

At Disney Cruise Line, we are dedicated to minimizing our impact on the environment through efforts focused on utilizing new technologies, increasing fuel efficiency, minimizing waste and promoting conservation worldwide. We strive to instill positive environmental stewardship in our cast and crew members and seek to inspire others through programs that engage our guests and the communities in our ports of call.



Disney Cruise Line is consistently recognized as an industry leader. All four Disney Cruise Line ships have the U.S. Coast Guard's QUALSHIP 21 with Zero-E designation, which recognizes exemplary vessels that have consistently adhered to environmental compliance, while also demonstrating a commitment to environmental stewardship. Disney Cruise Line also regularly wins awards such as the Blue Circle Award for voluntary efforts to conserve energy and reduce emissions from Port of Vancouver.

## Fuel Efficiency & Energy Conservation

Aboard our ships, efforts are taken to help increase the efficient use of fuel and energy, including:

- **Fuel:** As of Jan. 1, 2020, the International Maritime Organization instituted a regulation that requires all ships to use 0.5% sulfur fuel compared to 3.5% previously. Disney Cruise Line has taken this a step further by using 0.1% low sulfur fuel fleetwide at all times. Additionally, The Walt Disney Company previously announced plans to build three additional cruise ships, which will be powered by liquefied natural gas, or LNG, one of the cleanest-burning fuels available.
- **Shore Power:** Currently, three Disney Cruise Line ships have the equipment necessary to plug into shore power if the option is available at the port. Disney Cruise Line coordinates itineraries to be sure shore power-capable ships sail to ports of call that offer this technology.
- **Ship Hull Coating:** Disney Cruise Line made history as the first cruise line to utilize an innovative hull coating on its ships that is both 100 percent non-toxic to the marine environment and effective in increasing fuel efficiency by reducing surface resistance in open water. Additionally, an air lubrication system (ALS) has been installed onboard the Disney Magic to reduce the friction of the ship moving through the water.
- **Water Production:** Excess heat from power generators is used to run evaporators, which, combined with other shipboard initiatives, transform approximately 142,000 gallons of seawater into potable water on board each of our ships every day.
- **Additional Efforts:** Disney Cruise Line increases fuel and energy efficiency by automating onboard air conditioning systems for optimum use in both guest and backstage areas, turning off lights when they are not needed and encouraging guests and crew to reuse bath towels, conserving both energy and water. Furthermore, Disney Cruise Line is in the process of converting all four ships to energy-efficient lighting.

## Waste Minimization

Disney Cruise Line takes great care to reduce waste and conserve resources.



*Disney Cruise Line crew members are careful to sort recyclables into waste receptacles.*



*Each week, more than 1,000 gallons of used cooking oil is offloaded and recycled.*



*All Disney Cruise Line ships are equipped with Advanced Wastewater Purification Systems.*



*Environmental Officers aboard Disney ships are responsible for monitoring water quality, in addition to other duties.*

- **Plastic Waste:** As part of The Walt Disney Company's overall efforts to reduce the amount of single-use plastics, Disney Cruise Line has taken great measures to eliminate single-use plastics onboard and on Disney Castaway Cay, Disney's island in The Bahamas. In 2018, Disney Cruise Line eliminated the use of plastic straws, removing an annual volume of more than 14.7 million. Additionally, by switching to refillable bath product dispensers in all guest staterooms in 2019, Disney Cruise Line has removed an annual distribution of more than 2.2 million plastic amenity containers across its fleet – a total of 18 tons of plastic waste. Disney Cruise Line has also gone from annually distributing nearly 1 million plastic merchandise bags fleetwide annually to nearly zero. Other measures include the removal of plastic cutlery, stirrers and condiment packets. Disposable polystyrene cups have also been replaced with insulated paper cups. And, in an effort to reduce the use of plastic bottles, refillable water stations have been installed in both guest and crew member areas.
- **Recycling:** Disney Cruise Line is committed to diverting waste from traditional waste streams. Shipboard recycling processes have helped to eliminate on average more than 2,500 tons of metals, glass, plastic and paper from traditional waste streams each year. Each stateroom on all four Disney Cruise Line ships contains a recycling bin for plastic, paper and aluminum.
- **Condensation:** Naturally occurring condensation from the ships' onboard air-conditioning units is recycled to supply fresh water for onboard laundry facilities and for cleaning the outer decks of the ships, saving more than 30 million gallons of fresh water each year.
- **Cooking Oil:** Each week, more than 1,000 gallons of used cooking oil are offloaded and recycled. One hundred percent of the offloaded cooking oil is recycled in ports of call around the world, including Vancouver, Miami and Port Canaveral. Furthermore, Disney Cruise Line enjoys a partnership with Bahamas Waste Management in Nassau to convert the offloaded cooking oil into biodiesel fuel to power a fleet of local vehicles.

## Water Purification

Since water is a precious natural resource, Disney Cruise Line has invested in technology to ensure water purity and taken steps to select earth-friendly cleaners.

- **Advanced Wastewater Purification Systems:** All Disney Cruise Line ships feature Advanced Wastewater Purification Systems (AWPS) that utilize natural processes to treat and purify onboard wastewater to levels far exceeding international shipping standards, and in some cases shoreside potable water standards.
- **Environmentally Friendly Cleaning Products:** Crew members use biodegradable cleaning products wherever possible, avoiding potentially harmful phosphates and other chemicals associated with traditional cleaners.

## Environmental Officers

All Disney Cruise Line ships have dedicated Environmental Officers who are ranked among the most senior leaders on board.

- **Highly Specialized Expertise:** Our Environmental Officers possess previous maritime experience and specialized training in environmental regulations and systems.
- **Responsibilities:** These leaders monitor the ships overall water quality and supply, train all officers and crew members on waste minimization and environmental safety programs and oversee multiple environmental initiatives, including all shipboard recycling efforts.



*Disney researchers are transplanting long-spined sea urchins in order to restore the health of coral reefs.*



*Disney Cruise Line complies with all water and air quality standards.*



*Disney Cruise Line partners with Disney's animal care experts and researchers to uphold high standards of animal care, professionalism, ethics, conservation and education.*



*Guests on Castaway Cay participate in Port Adventures that foster an appreciation of the natural habitat.*

## Conservation & Wildlife

On board our ships and off, Disney Cruise Line strives to promote wildlife conservation and the protection of native animal species in our ports of call and around the world.

- **Disney Conservation Fund:** Guests can join Disney Cruise Line in supporting the Disney Conservation Fund (DCF), a global awards program committed to saving wildlife, inspiring action and protecting the planet. Supported by The Walt Disney Company and supplemented by generous guest contributions, since 1995 DCF has directed more than \$100 million to save wildlife and protect the planet and inspired millions of people to take action for nature in their communities. Read more at [www.disney.com/conservation](http://www.disney.com/conservation).
- **Coral Reef Restoration:** In collaboration with Disney Cruise Line and The Disney Conservation Fund, a team of Disney researchers have worked since 2007 to rehabilitate coral reefs in The Bahamas. They've planted more than 1,800 corals to rehabilitate five coral reefs, providing important habitat for the marine species, including endangered Nassau grouper and lobster, who call coral reefs home. To protect these reefs from excess algae growth, the team also relocates native long-spined sea urchins to the reefs to graze on algae, restoring balance to the ecosystem and allowing new corals to grow. The Disney Conservation Fund is also supporting the Perry Institute for Marine Science to address coral conservation and restoration across The Bahamas alongside more than 30 partner organizations.
- **Disney's Animals, Science and Environment Team:** This internal department of animal care experts and researchers works to uphold high standards of animal care, professionalism, ethics, conservation and education. Disney Cruise Line partners with this team to monitor and review Port Adventures featuring animal experiences, oversee educational excursions highlighting native animals and conduct research on Disney's island, Castaway Cay.
- **Sea Turtle Protection:** Crew members partner with experts from Disney's Animals, Science and Environment Team to protect and monitor loggerhead sea turtle nests on Castaway Cay. Their efforts have helped protect this threatened species. In partnership with Sea Turtle Conservancy and Disney's Vero Beach Resort, Disney Cruise Line is a sponsor of Tour de Turtles, an annual event across seven kilometers of beach that follows the marathon migration of sea turtles using satellite telemetry. Scientists follow these sea turtles' journeys from their nesting beaches to their foraging grounds to learn vital data about their habits at sea and identify migratory patterns.
- **Whale-Watching Networks:** Disney Cruise Line voluntarily participates in a program to record sightings of humpback whales off the coast of Alaska for the National Oceanic and Atmospheric Administration (NOAA) during summer sailings.
- **Avoidance with Marine Mammal or Other Marine Life:** Disney Cruise Line is dedicated to avoiding interactions with marine life. We comply with voluntary seasonal shipping lane changes, voluntary reporting and ship speed reductions. Prior to each season in Alaska, we also conduct marine life avoidance refresher training for our captains and first officers to help them with recognizing whale types, their behavior, and migratory patterns, which is the first step in avoiding interactions.
- **Sustainability:** Disney Cruise Line is working toward sustainability by selecting more seafood from wild or farmed sources that do not compromise the well-being of our oceans.





*A new solar farm facility is currently underway on Castaway Cay and once complete will generate approximately 70 percent of the island's power.*



*The vast majority of Disney's island, Castaway Cay, remains in an undeveloped, preserved state.*



*Disney VoluntEARS clear trash from the Brevard County coastline as part of regular beach cleanups.*

## Environmental Efforts at Castaway Cay

Disney's island, Castaway Cay, is a 1,000+ acre island located in The Bahamas along the Abacos chain. The vast majority of the island's acreage remains undeveloped and in a preserved state.

Guest activities impact only a small area of the island, and even there, guests are encouraged to "take only memories, leave only footprints."

Among its many attributes, the island features a secluded one-mile beach, a natural lagoon and natural protection for ship docking.

- **Solar Power:** For many years, Disney Cruise Line has utilized solar power to heat water for crew areas. Disney Cruise Line recently embarked on a new environmental initiative bringing a five-acre solar facility online at Castaway Cay. This solar facility includes 4,320 solar panels and will generate approximately 70% of the island's power once complete.
- **Island Restoration:** Disney restores the island's original ground cover by bringing in plant varieties native to the island to create an authentically natural habitat for guests to explore.

## Community Outreach, Inspiration and Education

Disney Cruise Line supports efforts both on board and in the local port communities visited by Disney to inspire children and adults alike to take environmental action in their everyday lives.

- **Community Service:** As part of an ongoing effort, cast and crew members regularly donate their time to benefit port communities. Their efforts include giving back to local nonprofits and leading shore cleanups.
- **"Safety Smart Goes Green":** On board, Timon and Pumbaa from "The Lion King" help to inspire responsible environmental action by showcasing small steps everyone can take to make a difference for the environment in their everyday lives.
- **Summer Eco-Camps:** Disney Cruise Line sponsors and provides guidance for summer eco-camps in the Caribbean. The camps focus on local biodiversity and habitats and provide children with information about conservation and recycling.

