

## Celebrity Cruises® – Environmental Initiatives

Several years ago, Celebrity Cruises embarked on an ambitious plan, hoping to reduce our impact on the environment. Today, we're proud to announce that many of these initiatives have been implemented across our fleet, and fully incorporated into the design of the Solstice class ships.

Something as simple as replacing higher wattage light bulbs with longer lasting fluorescent and LED lights has already made a difference. The new bulbs require 80% less energy than those previously used. The next step will be to upgrade our lighting systems to match guest usage patterns in key areas of the ship.

The installation of high-efficiency appliances has also helped to minimize the impact on climate change and reduce our energy load. From televisions to dishwashers, every type of appliance is being evaluated for efficiency. Also, the application of specially glazed window films across the fleet prevents solar heat from penetrating, thereby reducing the amount of air conditioning needed to cool the ship. The glazing of the windows allows for natural light to enter the ship while filtering 99.9% of UV rays.

Producing fresh drinking water can greatly increase energy usage onboard a ship. Installation of water-reduction technology and appliances throughout our fleet, such as sink aerators, reduced-flow dishwashers and low-consumption laundry equipment has resulted in a reduction of energy usage.

On a larger scale, Celebrity Cruises is also applying new silicone paints on the hull, which are environmentally safe coatings that increase the smoothness of our ships' hull. Coupled with an innovative approach to smoothing out welded areas on the exposed hull, we will save as much as 5% of fuel usage for propulsion.

Celebrity Cruises is committed to sustaining clean seas and has been installing Advanced Wastewater Purification (AWP) systems throughout the fleet. These technologically advanced systems clean the wastewater generated onboard our ships to create clean water that exceeds ship wastewater discharge standards throughout the world.

### CELEBRITY SOLSTICE<sup>SM</sup> – A SHINING EXAMPLE

Celebrity Solstice is the first cruise ship equipped with solar power technology, featuring 216 solar panels installed in various areas of the ship. In addition, Celebrity Solstice is equipped with the latest and most efficient air conditioning equipment commercially available. As a result of improvements in system design and automation, efficiencies will increase by approximately 10% over ships built as recently as five years ago.

Additionally, Celebrity Solstice is equipped with Common Rail Diesel Engines, which not only reduce energy consumption, but also are designed to reduce emissions. By pairing the optimal hull shape with advanced propeller systems, we have maximized our efficiency, with an energy savings of approximately 8% over traditional propeller-and-rudder set-ups.



Check out the Environmental Stewardship section of the Celebrity web site for more information.



### PUTTING IT INTO PRACTICE

Beyond all of our efforts in updating our appliances and installing new systems, our crew members play a crucial role in establishing environment-friendly behavior. We appreciate their efforts in turning off lights and appliances when not needed, adjusting temperature thermostats to comfortable levels, and conserving energy through fresh-water saving initiatives.

Our guests also are encouraged to participate in our Save the Waves program by turning off the lights and all appliances when they leave their room, and utilizing towels more than once.