MSC CRUISES NEWBUILDS AND ENVIRONMENTAL INNOVATION

Ryan Allain
MSC Cruise Management

MSC

A History of Commitment to Environmental Initiatives

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To Seaside Class and Meraviglia Class.

MSC Cruises is setting the course for more sustainable cruising!

Seaside and Meraviglia Class – Environmental Initiatives

MSC

Future Ships – Design & Operational Considerations

Industry Innovation?

- ***Hydrodynamics***
- ***Aerodynamics***
- ***High Efficiency propellers and underwater appendages***
- ***High Efficiency HVAC***
- ***Re-purpose waste water***
- ***Hull lubrication***
- ***Reduction of underwater noise***

Or Required by IMO/EU/Regulators?

- ***Hull coatings***
- ***Itinerary Planning to gain efficiencies***
- ***Alternative Fuels***
- ***Maximize waste heat recovery***
- ***No Ship to Sea Discharges***
- ***Maximize use of PRF***
- ***Hybrid propulsion technology (not just fuels)***

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