



ROYAL CARIBBEAN CRUISES LTD.

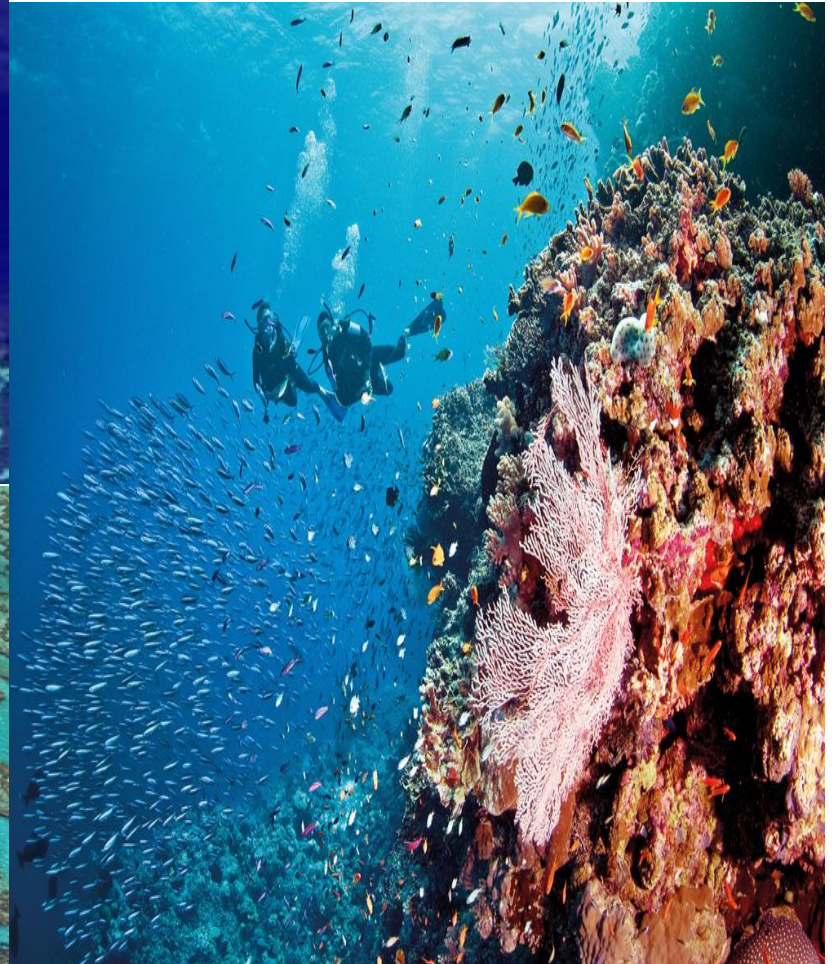
Save the Waves Cruising and the Environment

Rich Pruitt
Vice President
Safety & Environmental Stewardship
Royal Caribbean Cruises Ltd.



Cruising's Business Motivation

We take our guests to beautiful places to experience thrills of a lifetime. It is in our best interest to protect and have as small an impact as possible. It's also the right thing to do!



Global Regulatory Trends

International

United Nations- IMO

*Global cap on Sulfur 2020 (0.5%)
Ballast Water Management Convention
Special Areas: Sewage & Air Emissions (SOx and NOx)
Particularly Sensitive Sea Areas – Marine Protected Areas*

Area/Regional Specific

HELCOM
EU Regulations
Polar (Arctic & Antarctic)

*Special Areas: Sewage (Baltic) & Sulfur / NOx Emissions
Ballast Water Management
Antarctic Treaty Protocols
Polar Code*

National /Port State

Australia
New Zealand
China

*Sulfur Emission Regulations
Ballast Water Management / Hull Husbandry
Wastewater - Sewage*

State/Provincial

New South Wales

Sulfur Emission Regulations

Port Specific

Sydney

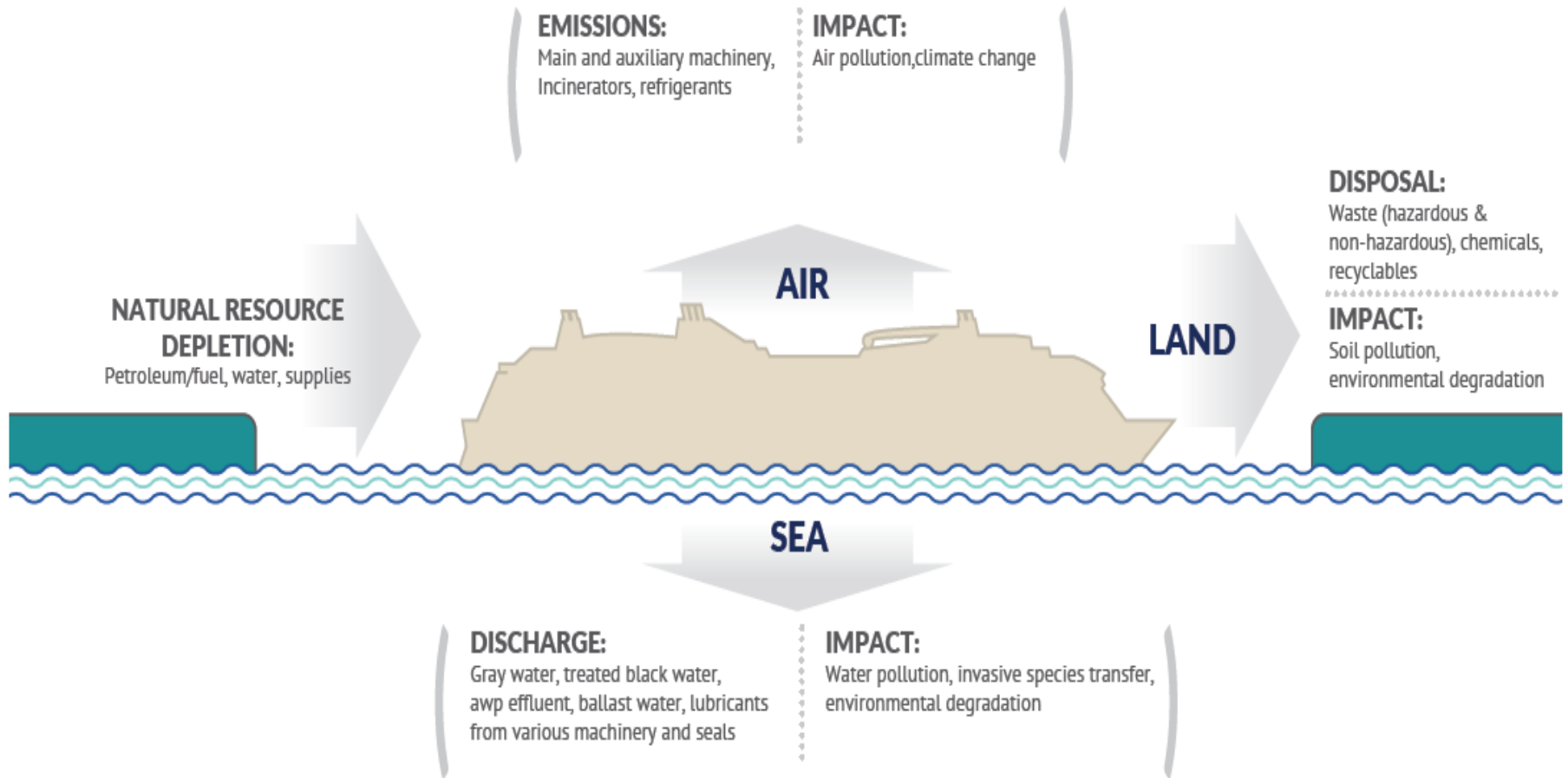
*0.1% sulfur
fuel while
at berth &
UW*

Overall the global trend is towards more regulations particularly focusing on:

- Emissions- SOx and NOx*
- Invasive Species Management (Ballast Water & Hull Husbandry)*

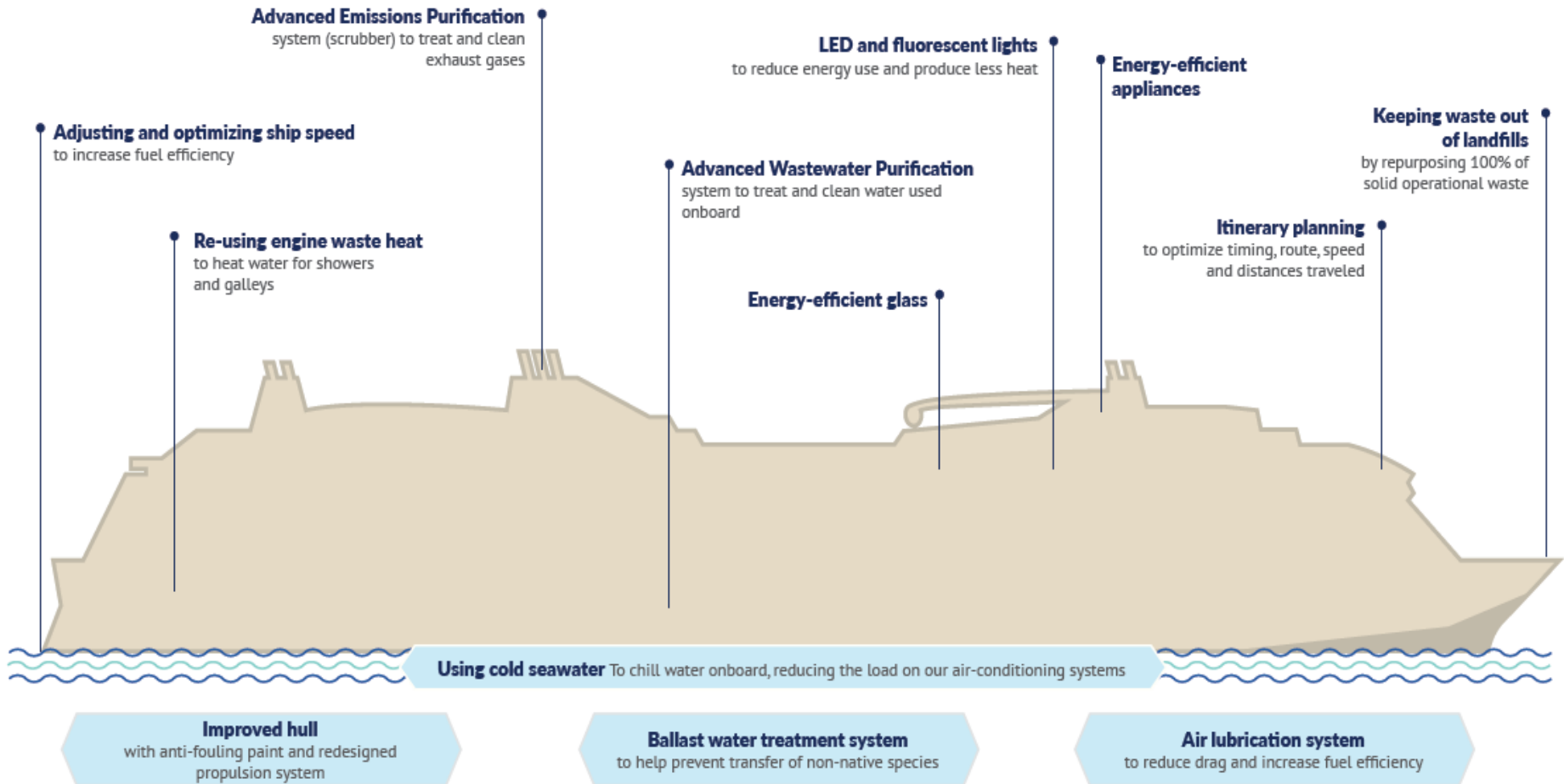


Cruising's Footprint!



How do we manage these impacts?

Through technology and operational controls



Advanced Emission Purification Systems (Scrubbers)



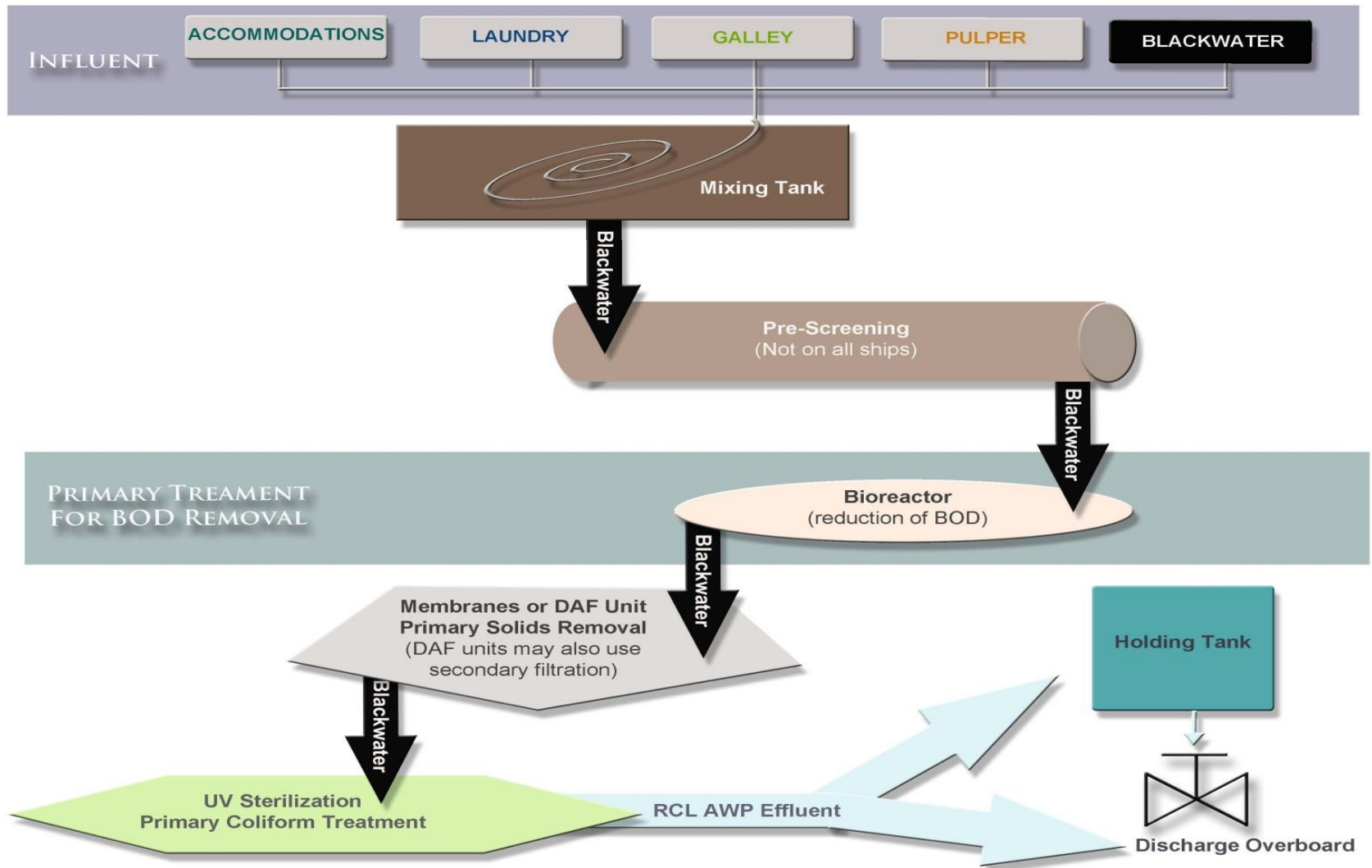
Advanced Emission Purification Systems (Scrubbers)



Advanced Emission Purification Systems (Scrubbers)



Advanced Wastewater Purification Systems



Advanced Wastewater Purification Systems



Solid Waste Handling



How well is RCL performing?

2014 ENVIRONMENTAL STEWARDSHIP HIGHLIGHTS

18
years of maintaining
ISO 14001
certified operations

21.4%
reduction in greenhouse
gas emissions per
available passenger cruise
day since 2005

52%
reduction in refrigerants
consumption since 2008

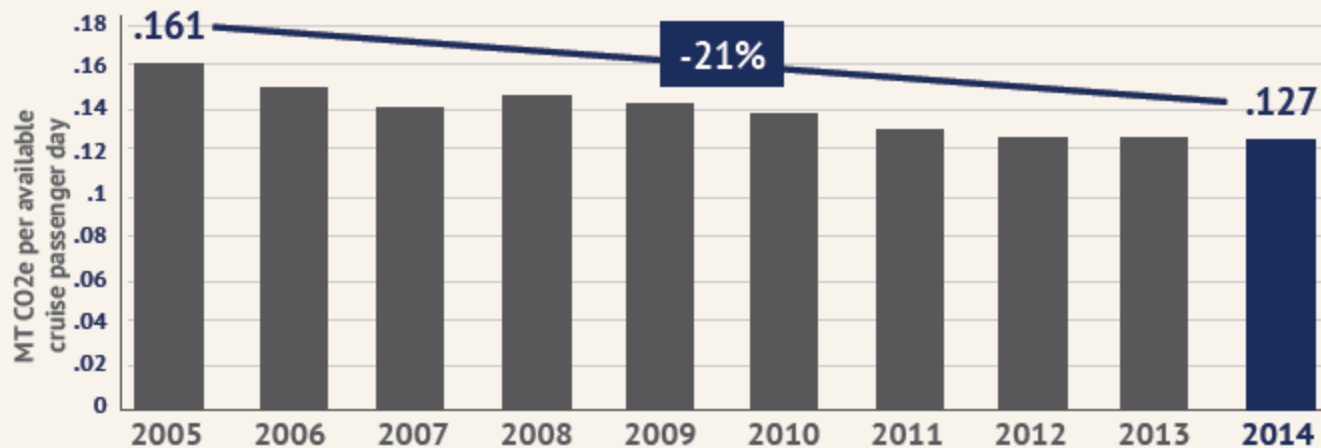
4
full ship installations and
fully certified emissions
abatement systems

90%
better performance
than IMO standard for
discharged bilge water

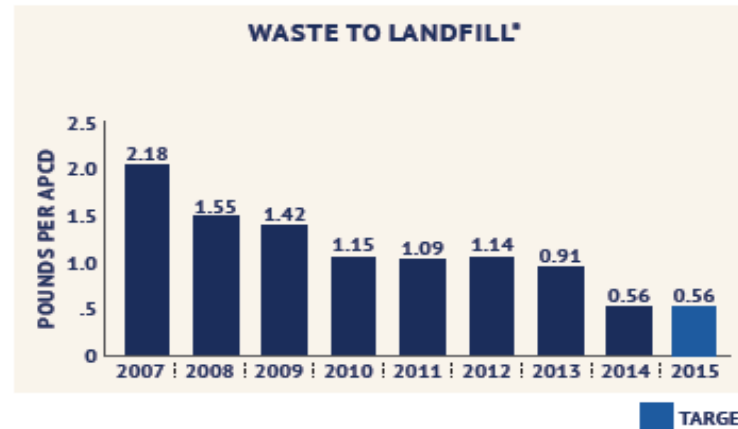
32
ships (representing 82% of
available berths) covered by
advanced wastewater
purification systems

100%
of operational waste
re-purposed
on 16 ships

REDUCTION IN GHG EMISSIONS

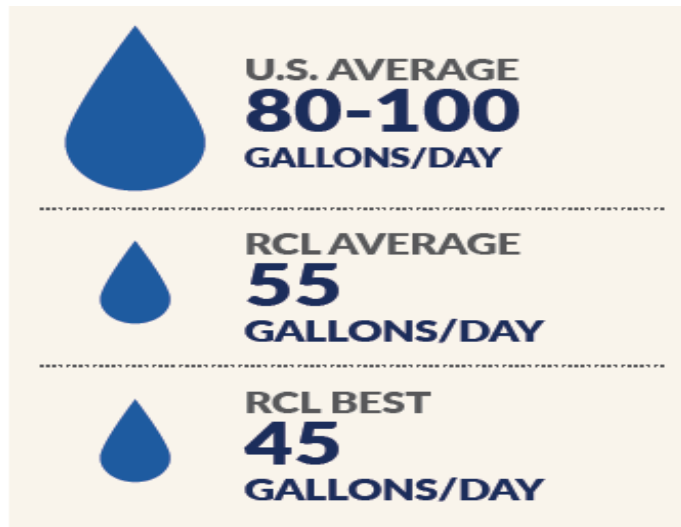


How well is RCL performing?



*16 vessels
repurposing
100% of their
operational
waste*

According to Australia's Bureau of Statistics in 2009 (last reported data) 1,035KG of solid waste was disposed of per person per year, which equates to 6.2 lbs. / person / day



*With the majority of our fresh water
being produced onboard by desalinating
sea water using steam evaporation or
reverse osmosis*



Future Opportunities – “From Ship to Shore”

- Destination Stewardship
 - A program founded and developed by RCL with our NGO partners Sustainable Travel International that introduces Sustainable Destination Management to tourism destinations
 - Strategy
 - Help support development of management plans for sustainable growth
 - Provide support for local conservation and community development
- Why?
 - Destinations are the lifeblood of cruising
 - Destinations must plan and act to remain viable
 - Mismanagement of destinations may lead to Environmental degradation and dissatisfaction of visitors
 - Sustainable destination management has enhanced visitor experiences, improved management of natural and cultural resources



Future Opportunities

Sustainable Destinations Alliance for the Americas (SDAA)



- *Launched in March 2014*
 - *10 total locations in 2 years with a goal to expand to 30 destinations by 2017*

South Pacific Destination Alliance (SPDA)



- *Launched in Sept 2014 at the UN SIDS meeting in Apia, Samoa*
 - *Replicating the Americas model in the South Pacific*
 - *Expanding partners in the region*

Global Cruise Challenges

- Changing the general misperception of cruising and its impact on the environment
- Continued growth of complex regional and/or local regulatory regimes
 - Shipping, including cruise, is an international business and needs international solutions
- Uncertainty of future requirements and their retroactive application to existing ships
 - Generally speaking cruise vessels are 30+ year investments
- Aspirational Regulations
 - Onboard Treatment Standards for sewage discharge in the Baltic (Nutrients)
 - Ballast Water Management Convention (Treatment Systems)



Australia Cruise Challenges

- Emerging local regulatory regimes
 - Recent final version of NSW sulfur limits
 - Oct 2015 alongside 0.1% in Sydney
 - Jul 2016 while inside Sydney port limits
 - Cruise has always been willing to meet all environmental challenges, but it must not be singled out or impacted disproportionately to its contribution
 - Environmental advances can not come at the expense of safety

1. Uncertainty of future requirements and the impacts on itinerary decisions, local and regional

- Many factors are considered when making deployment decisions
 - Operational complexity (i.e. fuel suppliers & bunkering needs)
 - Increased fuel costs (MGO vs IFO is around 50-100% more), more in some regions, including Australia



Thank you

*To learn more about RCL's Corporate
Sustainability efforts please visit
www.rclcorporate.com*

