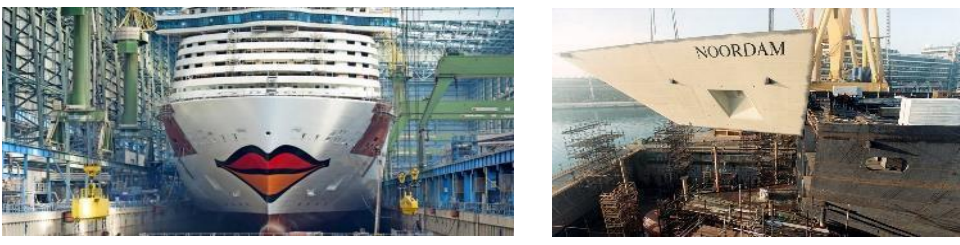
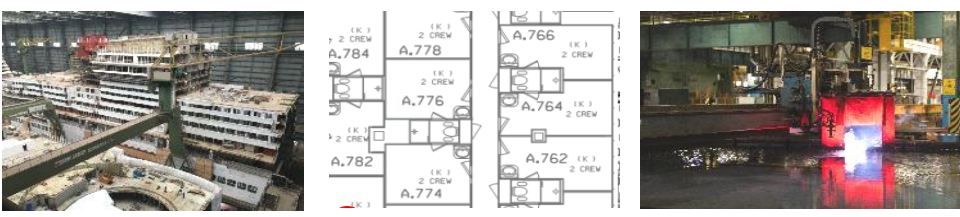


Carnival Corporate Shipbuilding Sustainability & Decarbonisation



What Guides Our Corporate Actions?

Our Mission: To deliver unforgettable happiness to our guests by providing extraordinary cruise vacations, while honoring the integrity of every ocean we sail, place we visit and life we touch.

Our Vision: As the global leader in the cruise industry, we will lead the way in innovative and sustainable cruising to deliver memorable vacations and build borderless connections.



Speak Up



Improve



Respect & Protect



Communicate



Listen & Learn



Empower

2030 & 2050 Corporate Sustainability Focus Areas

Climate Action

Circular Economy

Sustainable Tourism

Good Health & Well-Being

Biodiversity & Conservation

Diversity, Equity, & Inclusion



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CCS Sustainability Roadmap

Climate Actions

- Reduce carbon emissions (Legacy fleet with ABG & Brands / Newbuilds)
 - Increase shore power capabilities (fleetwide / both side)
 - Advanced Air Quality System (fleet support)
 - LNG
 - Explore options to reduce methane slip:
 - Improved combustion to reduce methane slip down to 1% from 4%
 - Flue gas treatment (catalytic capture / electrostatic precipitation)
 - Different engine philosophy (sparked ignition vs. pilot fuel)
- Save more energy:
 - Air Lubrication System (ALS)
 - Hybrid power system (ship's batteries store <> restore energy)
 - Service Power Package (HVAC upgrade program & Variable Freq Drives)
- Front and support regulatory evolution:
 - Running calculations and baselines for incoming indexes:
 - **Energy** Efficiency Existing Ship Index (EEXI 2023+)
 - Carbon Intensity Indicator (CII 2026+)
- Pave a way to carbon neutrality for Newbuilds:
 - Developing the plan for the next decarbonisation steps past LNG
 - Alternative fuels (feasibility & impact on ship design of alternate fuel & powering options)
 - Green carbonized fuel (bio / electro LNG, Methanol, MGO)
 - Ammonia
 - Hydrogen
 - Nuclear
 - Carbon capture & storage (circular economy)
 - Others energy converters (fuel cells, DC network)
- Scope 3 emissions tracking and reduction initiatives



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CCS Sustainability Roadmap

Circular Economy

- Single use plastics reduction
 - Eco-packaging and rationalization initiatives
- Food waste management
 - Biodigesters
- Waste and water treatment
- Transition from incinerators to waste oxidation technology

Sustainable Tourism

- High level desire to have the option to provide services to the local economy for our tourism destinations
 - Energy
 - Clean water
 - Waste treatment
- Leverage our corporation's size and advanced technology to better the communities we visit
 - Dependent on technology upgrades in other sustainability categories



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CCS Sustainability Roadmap

Good Health & Wellbeing

- Trained mental health first aiders
 - Full externally provided training via virtual courses
- Employee experience group
 - Amplification of the employee's voice
 - Connection point for improvement opportunities and solution development
 - Opportunity to positively improve the culture and employee experience
- Online training suite
 - Virtual access

Biodiversity & Conservation

- Improvements in design:
 - Environmentally friendly hydraulics
 - Ballast water treatment
 - Underwater noise reduction

Diversity, Equity, & Inclusion

- Initial data collation
 - Key metrics for DEI mapping are being collected
 - Analysis of extracted data on the demographics of the organisation
- Benchmarking and metric implementation
 - Relied on the data collection and analysis to be completed



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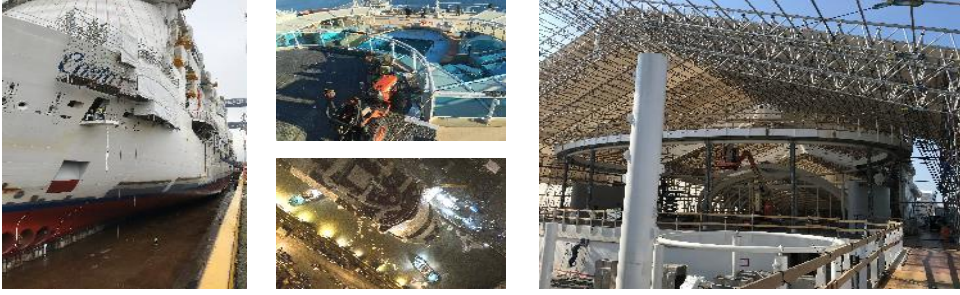
Communicate



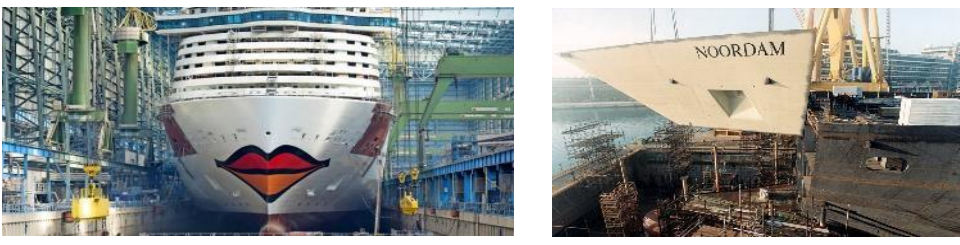
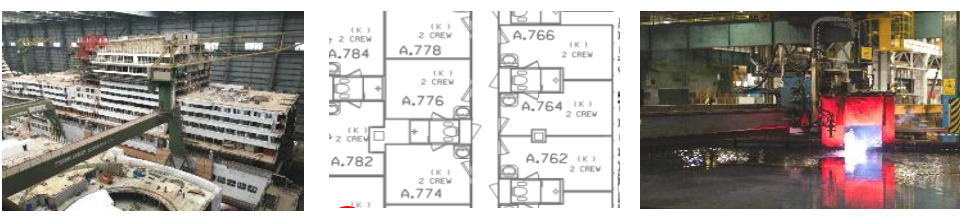
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Empower



CCS Departmental Goals: Sustainability & Decarbonisation



Departmental Goals to meet 2030/2050 Corporate Sustainability Requirements

Future Tech Development

- Development of a zero-emission ship road map:
 - Decarbonisation of energy demands:
 - Methane/Hydrogen/Ammonia & Methanol biofuel solution
 - Incorporate themes from an industry standard for building (Ex. LEED Certification):
 - Consideration of recycled and green materials
- Develop internal mechanisms to measure and report status of improvements to emissions made until zero emission plan is implemented

Better Building Strategies

- Collect and validate sustainability metrics from our shipyards
 - These are our CCS scope three emissions
- Develop contracts and requirements for yards to support technical team goals and industry standard accomplishment such as:
 - Recycled materials
 - Emission reduction
 - Renewable energy for building of ships

Improve the Supply Chain

- Collect, and analyze scope three emissions from our suppliers
 - Evaluate and audit our suppliers for required standards (Labor, Health & Safety, Environment, and Ethics)
- Use the Master Makers List to improve on:
 - Minimum sustainability efforts for acceptance criteria onto the makers list where feasible in addition to commercial and technical selection criteria
 - Sourcing to leverage sustainability wants/needs for acceptance criteria for selection on a makers list for new build

Inclusivity & Employee Mindset

- Expand diversity across all levels and in all departments:
 - Gender: pay gap report, M/F split for levels (gender is the starting point that will evolve)
- Create an inclusive culture:
 - Improve our inclusivity measures as part of the engagement survey, people think about inclusivity across all levels, locations & departments, improved appreciation for other professions within CCS
- Increase consciousness and awareness of DEI:
 - All managers to have completed unconscious bias training
- Create initiatives and partner with outside entities to promote sustainable practices in employee everyday life. (Possibilities include: E-waste drive, competition for use of public transit instead of POVs, print-free weeks, recycle-a-thon)



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