

CONNECTING TO SHORESIDE ELECTRICITY

Plugging into shoreside electricity enables ship engines to be switched off and reduces emissions while the ship is in port.

LIQUIFIED NATURAL GAS

More cruise ships are

using liquified

natural gas (LNG).

fuel as the most

carbon fuel with

Synthetic LNG to net zero.

bio-LNG and

LNG is a transitional

readily available low

a clear pathway via

40%

of the global cruise fleet by capacity has been equipped to connect to shoreside electricity.

LNG is important

emissions by

20%.

Even when

significant.

methane slip is

the reduction is

taken into account

as it reduces CO₂



Fuel cells can help to power ship propulsion or auxiliary power systems without generating greenhouse aases when hvdroaen is used as fuel source.

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Fuel cells can be

fuels such as

or hydrogen

which reduce

emissions.

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greenhouse gas

powered by various

methanol, ethanol,

natural gas, biogas,

derived fuels, all of



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NEW SUSTAINABLE MARINE FUELS

Cruise lines are investing in development of sustainable marine fuels. These include advanced biofuels, biomethanol and synthetic e-fuels.

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non-food biomass (plant material and animal waste).

E-fuels, like e-methane and e-methanol, are all fuels in gas or liquid form that are produced from renewable (solar or wind power, for example) or decarbonised electricity. This raw material differentiates them from biofuels, which are primarily produced from biomass. The carbon content can be taken from different sources (biomass, industry, or direct air capture) but such that they remain net zero on a lifecycle approach.

BATTERY TECHNOLOGY

Battery technology can help in ensuring enaines and fuel cells operate at their most efficient, and supply short periods of zero emissions use.

More than 15%

of cruise ships to be delivered in the next five years will be equipped to incorporate fuel cells or batteries.



USING DIGITAL TECHNOLOGY TO BE MORE ENERGY EFFICIENT

From tracking the energy use of appliances in a ship's galley to routing ships optimally, digital technologies offer a new energy-saving tool. Each new class of ship that is launched is around

20%

more efficient than the last.



GENERATING ECONOMIC BENEFITS FOR CRUISE DESTINATIONS

Cruise tourism brings economic and social benefits to communities and can be vital for some of the more remote coastal and island regions.

On average a cruise guest spends

in port cities during a seven-day cruise.



PARTNERING WITH CITIES & PORTS

The cruise industry works with cities and ports to develop action plans for sustainable tourism. As cruise tourism is are maximized.





MANAGING FUEL CONSUMPTION

Air lubrication systems create microscopic bubbles to reduce drag as ships move through water and help to reduce fuel consumption. Special hull coatings also reduce friction and therefore fuel consumption.

of microscopic bubbles coat some ships' hulls and reduce drag.



SUSTAINABLE WASTEWATER MANAGEMENT

Advanced wastewater treatment systems often exceed those of shoreside treatment plants.

of new ships on order



SAFEGUARDING OCEAN HABITATS

Every cruise ship receives multiple inspections each year - announced and unannounced - to ensure implementation of strict environmental and safety regulations.

Cruise lines are required to implement **THOUSANDS**

of requirements set by the IMO, ILO, national maritime and other relevant authorities.



CRUISE IS A SUCCESS STORY FOR EUROPE

Almost all the world's ocean-going cruise lines are built in Europe. The cruise sector is an engine for growth for Europe's industrial economy

More than

of cruise ships are built in Europe. 78 cruise ships on order for the next five years represents over €45 billion direct investment into Europe.



A CIRCULAR ECONOMY ONBOARD

Cruise lines use sophisticated processes to remove, reuse, recycle and convert waste to energy.

100%

of waste generated onboard is repurposed on some ships.

100%

are scheduled to have advanced wastewater treatment systems.