

AUGUST 2019 CLIA HIGHLIGHTS

ENVIRONMENTAL COMMITMENT, INNOVATION AND RESULTS OF THE CRUISE INDUSTRY

\$22 BILLION

Invested in new energy
efficiency technologies and
cleaner fuels

40% TARGET

Reduction in rate of carbon
emissions by 2030
(compared to 2008)

15.2 YEARS

ADVANCE WASTEWATER TREATMENT SYSTEMS (AWTS)

AWTS systems utilize advanced tertiary-level treatment to generate effluent discharges often equivalent to best shoreside treatment plants and, consistent with CLIA policy, well beyond international requirements.

100% NEW SHIPS

on order specified to have these systems
(up 26% over 2018)

**68% GLOBAL CAPACITY**

is served by advanced wastewater systems
(up 13% over 2018)

LIQUIFIED NATURAL GAS (LNG)

LNG has virtually zero sulfur emissions, a 95% to 100% reduction in particulate emissions, an 85% reduction in NOx emissions, and up to 20% reduction in greenhouse gas emissions.

26 LNG-POWERED

ships currently ordered or under construction

**44% NEW CAPACITY**

committed to rely on LNG for primary propulsion
(60% increase in global capacity over 2018)

EXHAUST GAS CLEANING SYSTEMS (EGCS)

EGCS reduces sulfur oxide levels by as much as 98%, a typical total particulate matter reduction of 50% or more, including elemental and organic carbon and black carbon, and nitrogen oxides by up to 12%.

68% GLOBAL CAPACITY

utilizes EGCS to meet or exceed air emissions
requirements (up 17% over to 2018)

**75% NEW SHIPS**

not relying on LNG will have EGCS installed
(8% increase in global capacity over 2018)

SHORE-SIDE POWER CAPABILITY

Cruise ships may operate on shore-side electricity at 16 ports worldwide, reducing overall emissions while at port.

30% GLOBAL CAPACITY

are fitted to operate on shore-side
electricity (up 10% over 2018)

18% TO BE RETROFITTED

with shore-side electricity systems
(up 300% over 2018)

88% NEW SHIPS

will be fitted with shore-side elec-
tricity systems or configured to add
shore-side power in the future

