

PARTNERING FOR SAFETY & SUSTAINABILITY

RIGHTSHIP



ABOUT RIGHTSHIP...

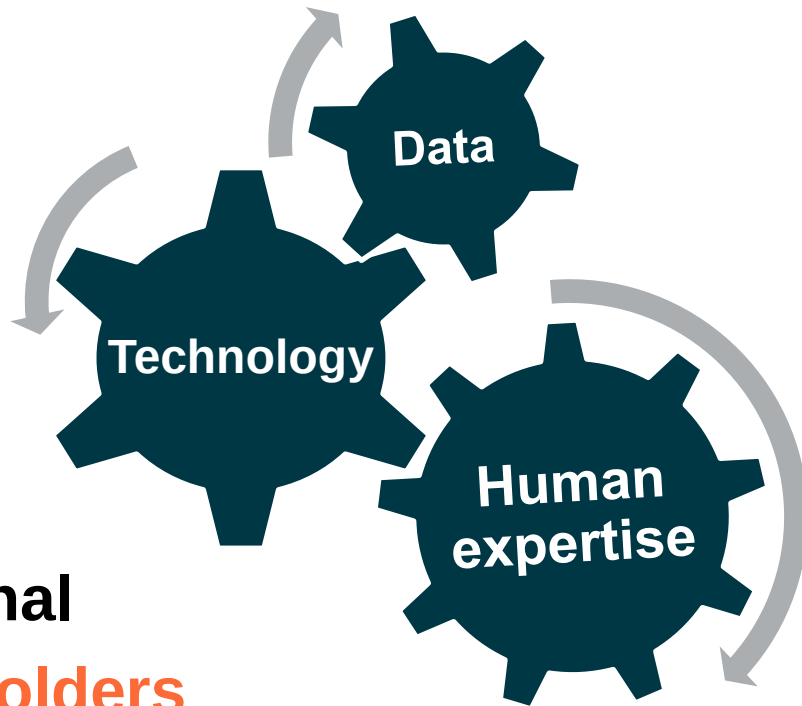
Profit for purpose!

Working to improve the
safety and environmental
sustainability of the
world's maritime fleet.

Assurance process combines analytics with expertise

- Big data – global fleet
- AI & Machine Learning
- Subject Matter Experts

...moving from vetting to
assurance, reducing **operational**
risk for **Customers** & **Stakeholders**



Safety + ESG

RIGHTSHIP

Managing
Operational risk

Enabling “**win-win**”
for business and the
Marine environment



Seafarers
**Wellness &
Welfare**

Social License to operate

Operational Risk - 2018



- ❖ **1,392** vessel casualties
 - ❖ **1,279** incidents (51 pollution based)
 - ❖ **2,442** detentions – 212,640 detained hrs
 - ❖ **> 2,000** global class withdrawal records
 - ❖ 1744 Vessels removed from Customer Supply chain
 - ❖ 188+ Fatalities
-
- More than 1 billion tonnes of CO₂ emitted
 - Sanctions / Piracy / Human Rights violations



The Word of the Year designation is intended to highlight “a word or expression shown through usage evidence to reflect the ethos, mood or preoccupations of the passing year.” David 'Dee' Delgado/Bloomberg, via Getty Images

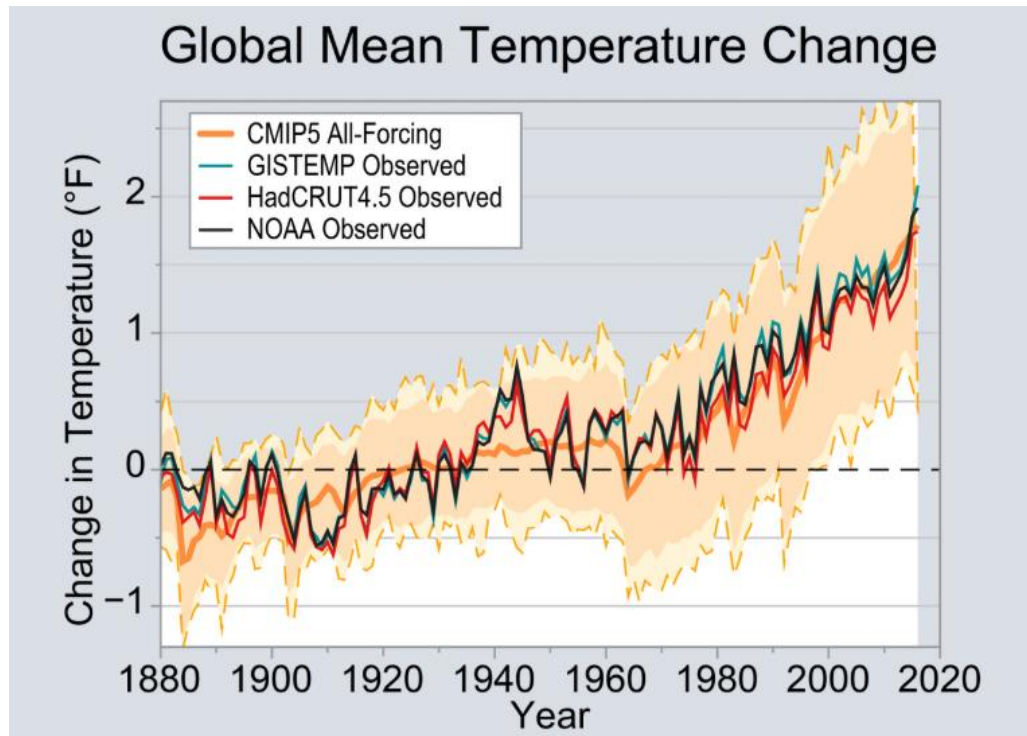
The New York Times

Oxford Names ‘Climate Emergency’ Its 2019 Word of the Year

In a break from precedent, the dictionary company released an all-environmental shortlist including “climate action,” “climate denial” and “eco-anxiety.”

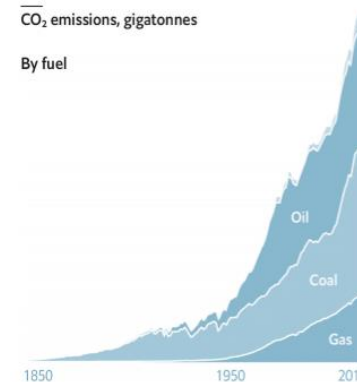
Climate Change – is it real?

RIGHTSHIP

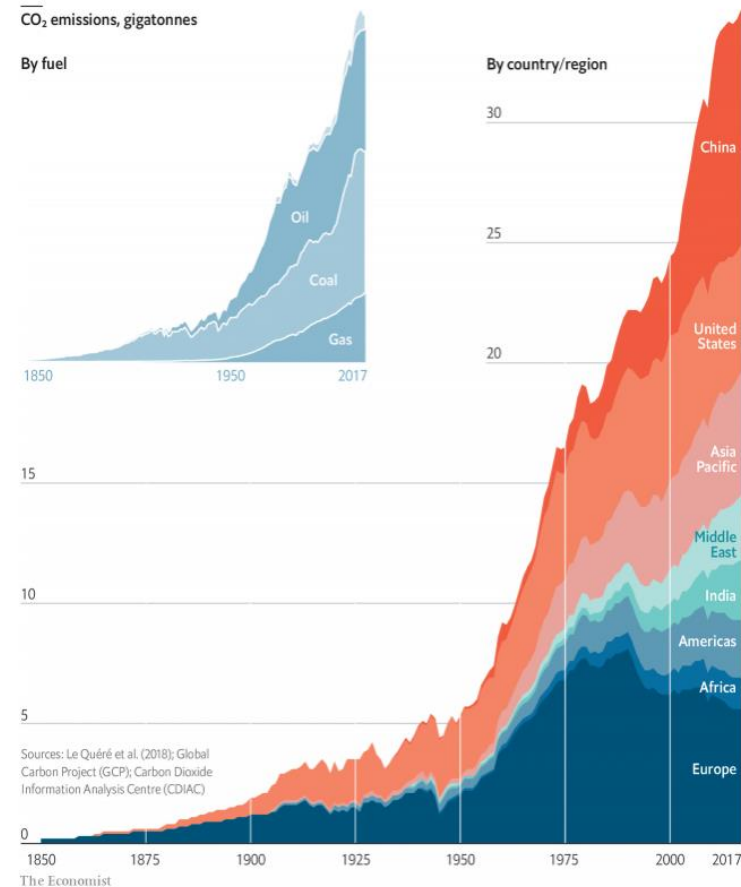


CO₂ emissions, gigatonnes

By fuel



By country/region



Climate Science Special Report



GLOBAL GOVERNANCE

Dispatches from the frontline of the 'war on nature' - Day 3 at Davos 2020

UN Secretary-General Antonio Guterres said climate change won't kill the planet, but it could kill humankind, one of the highlights from Day 3 at Davos 2020.

Robin Pomeroy 23 Jan 2020

“UN Secretary-General Antonio Guterres said climate change won't kill the planet, but it could kill humankind!”

Societal Need for Change

RIGHTSHIP

Greta Thunberg: Our house is still on fire and you're fuelling the flames



"You have stolen my dreams and my childhood with your empty words. And yet I'm one of the lucky ones. People are suffering. People are dying. Entire ecosystems are collapsing. We are in the beginning of a mass extinction, and all you can talk about is money and fairy tales of eternal economic growth. How dare you!"



<https://www.weforum.org/agenda/2020/01/greta-speech-our-house-is-still-on-fire-davos-2020/>

NATIONAL

'This Is All Wrong,' Greta Thunberg Tells World Leaders At U.N. Climate Session

<https://www.npr.org/2019/09/23/763452863/transcript-greta-thunbergs-speech-at-the-u-n-climate-action-summit>

<https://www.un.org/en/climatechange/>

Societal Need for Change

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20th June 2019

The Poseidon Principles and a 'green transformation' of shipping



Marine Money event in New York.

The official launch of the Poseidon Principles held in New York on expanded how the initiative from major ship finance banks plans to try and take the lead of a “green transformation” in shipping.

Eleven banks, holding roughly \$100bn of ship finance loans, out of an estimated \$400bn total, were on hand for the signing ceremony for the Poseidon Principles an effort that grew out of work of the Global Maritime Forum, the host for the launch, which was held alongside the

Read more: [Major shipping banks to incentivise shipping's decarbonisation](#)

Citibank's Michael Parker, global head of the bank's shipping and logistics area, and a member of the committee that drafted the actual framework, presided over the session. Parker, also a major architect of the plan, explained that it was important for shipping lenders “to use our influence in the push for sustainable business” mirroring the IMO timelines for reduction in carbon emissions, which may tighten over time.

<https://www.seatrade-maritime.com/news/americas/the-poseidon-principles-and-a-green-transformation-of-shipping/>



The group's "statement of corporate purpose" was signed by the heads of more than 180 U.S. companies, including the CEOs of Amazon.com Inc ([AMZN.O](#)), American Airlines ([AAL.O](#)), the largest airline in the world; and JPMorgan Chase & Co ([JPM.N](#)), the biggest American bank.

<https://www.reuters.com/article/us-jp-morgan-business-roundtable/top-u-s-ceos-say-companies-should-put-social-responsibility-above-profit-idUSKCN1V91EK>

Climate Change – is it real?

“Climate change has become a defining factor in companies’ long-term prospects. . . . But awareness is rapidly changing, and I believe we are on the edge of a fundamental reshaping of finance.”

“Every government, company, and shareholder must confront climate change.”

Letter to CEOs – 14th January 2020

BlackRock C.E.O. Larry Fink: Climate Crisis Will Reshape Finance



BlackRock

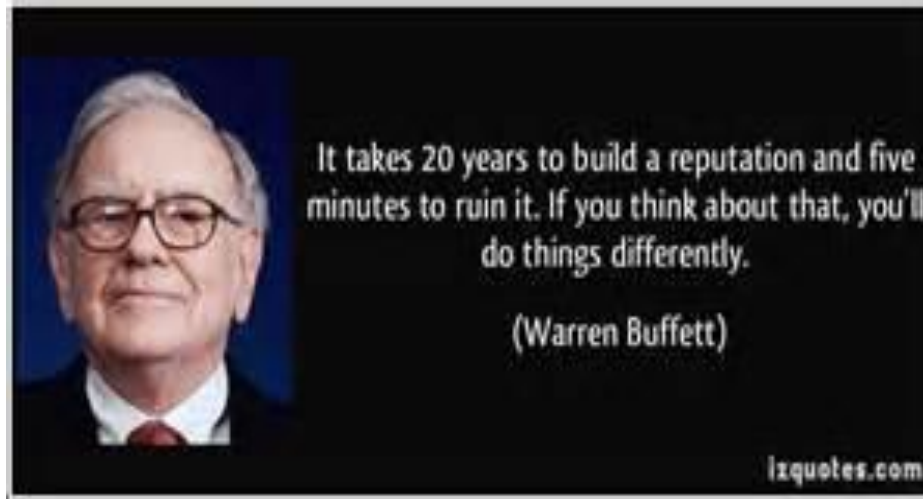
Larry Fink

Chairman and Chief Executive Officer

In his influential annual letter to chief executives, Mr. Fink said his firm would avoid investments in companies that “present a high sustainability-related risk.”

IN OTHER WORDS...

Reputation



Seven charts that explain the plastic pollution problem

🕒 10 December 2017

Marine life is facing "irreparable damage" from the millions of tons of plastic waste which ends up in the oceans each year, the United Nations has warned.

<http://www.bbc.com/news/science-environment-42264788>



IS COMPLIANCE . . .

- **Minimum Certificates**
- **IMO Statutory . . . *in spirit!***
- **Stakeholders expectations**
- **Commercial expectations**



What are the expectations?

E S G

- Safety & Security?
- Environmental Sustainability?
- Transparency & Governance?
- Collaboration & Partnerships?
- Efficiency & Innovation?
- Human Rights, Labor & Wellness?
- ESG Stakeholder Welfare?

Gender Equality



Social License to operate!

THE LINK . . .

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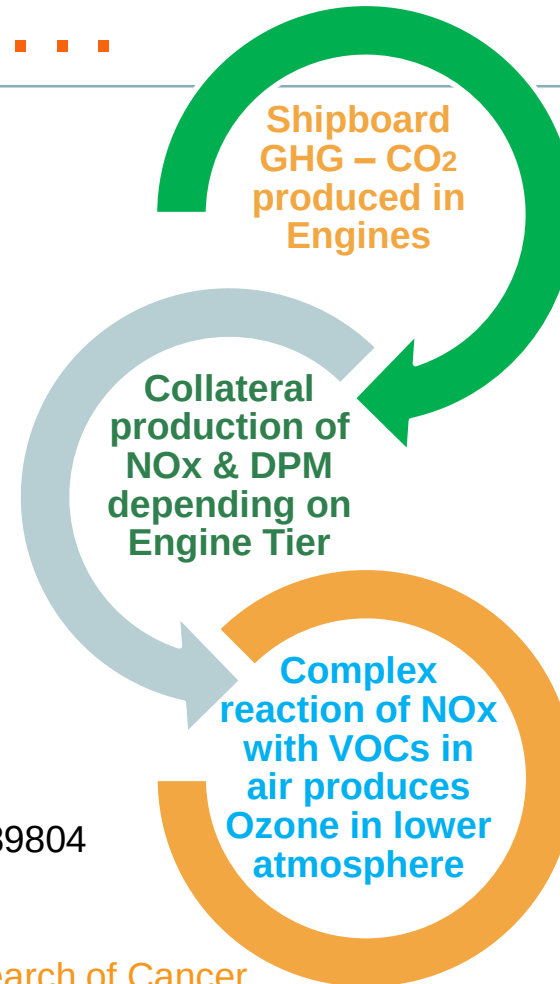
GHG TO NO_x & DPM TO VOC & OZONE

Lower level Ozone, NO₂
& DPM are directly related
to Cancer, breathing
difficulty & aggravation of
lung infections - NIH

Ozone & NO_x = <http://www.ncbi.nlm.nih.gov/pubmed/7489804>

DPM = <http://www.ncbi.nlm.nih.gov/pubmed/22126432>

DPM = carcinogenic – see [International Agency for Research of Cancer](#)



INSIGHTS – WHAT'S DRIVING ENERGY EFFICIENCY

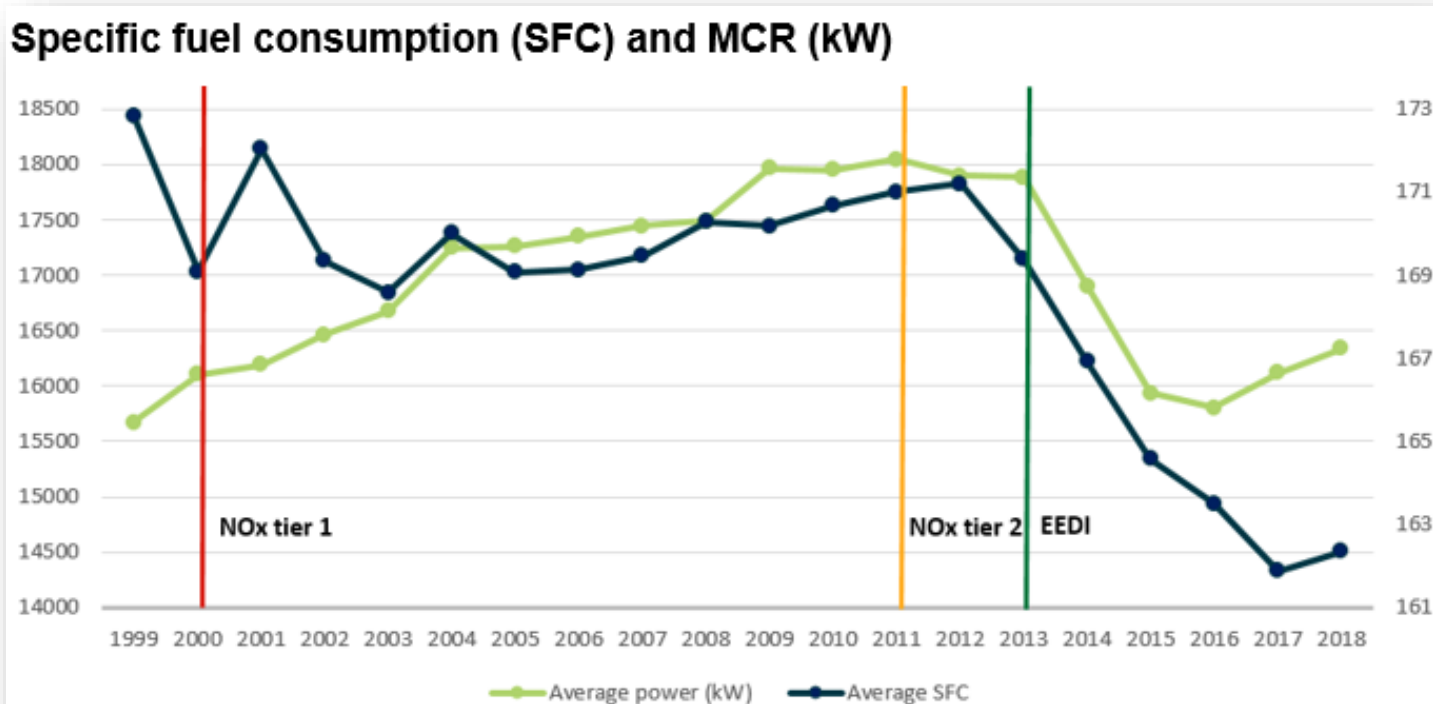


Figure 1. Average specific fuel consumption (SFC) and engine size (kW) from 1999-2018 of capesize fleet with reference lines.

TYNDALL RESEARCH

DECISION



SUBSTITUTE F RATED VESSEL
FOR C RATED VESSEL

FUEL SAVINGS

189,095

\$ IN FUEL SAVED

CO₂ SAVINGS

919

TONNES OF CO₂ SAVED

VOYAGE

Customer

Cargill

Vessel

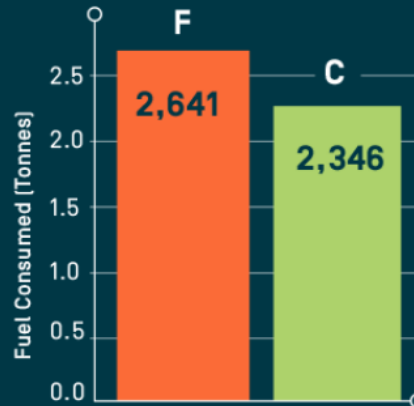
Bulk carrier

Journey

Chile > US > India > Brazil > Netherlands

Dates

5 March – 17 August 2013



SUPPLY CHAIN ANALYSIS – CARBON

Vessel Specifications

IMO:	9604988
Name:	PACIFIC TREASURE
GHG Emissions Rating:	D
DWT:	181458
Total Cargo Capacity (t):	181458
Cargo Loaded (t):	179,003.00
Voyage Load Factor:	98.65%
Voyage Fuel Type:	HFO
EEDI/EVDI*:	2.3528
Fuel Conversion Factor:	3.1144

GHG Emissions - Part Cargo

	CO ₂ e (kg)	CO ₂ e (t)	
Well to Tank (WTT):	159,173.35	159.17	Fuel Production
Tank to Wheels (TTW):	1,928,446.38	1,928.45	Voyage
Well to Wheels (WTW):	2,087,619.73	2,087.62	Full Lifecycle

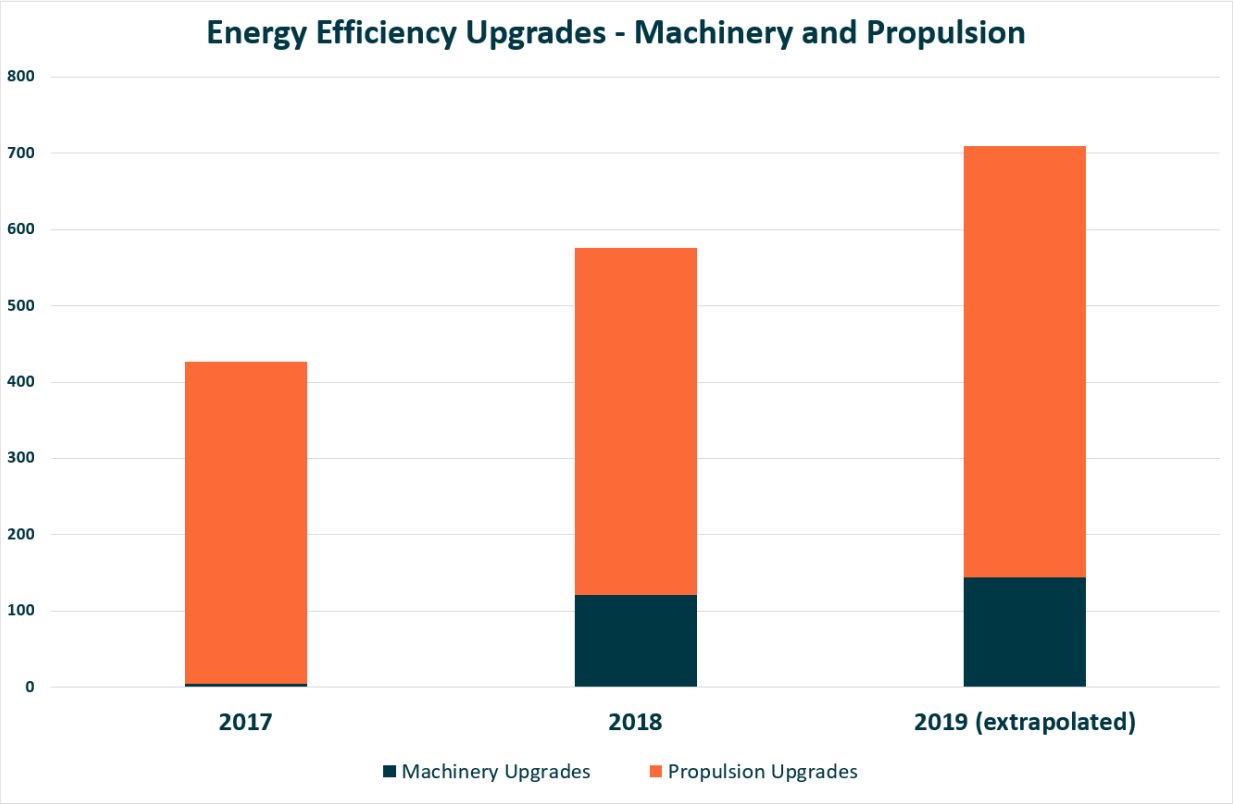
SCOPE 3 Emissions

2,088

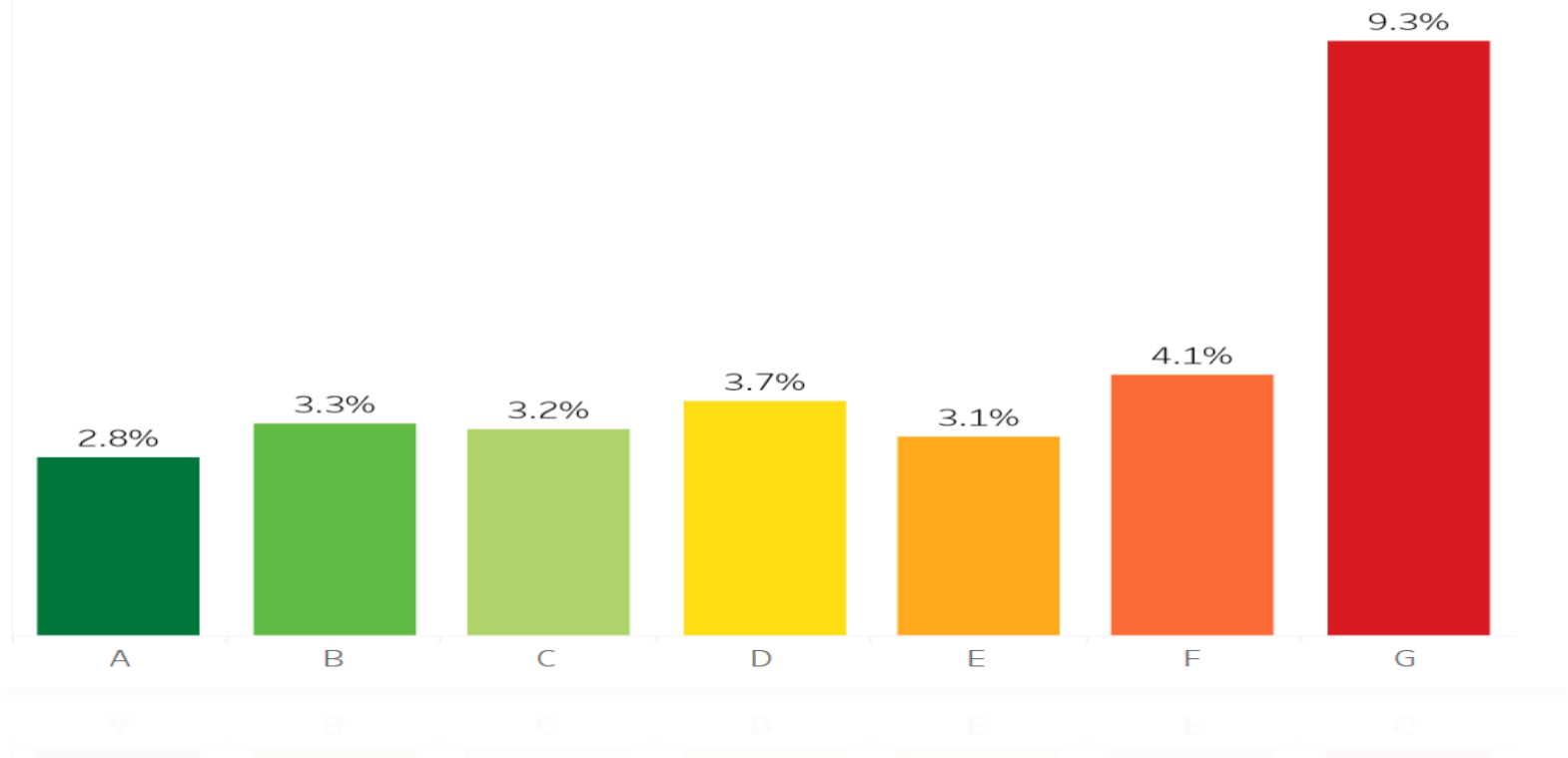


Industry Response to Sustainability

Number of upgrades since 2017



INCIDENT RATIO BY GHG RATING 2018 - ALL VESSELS



STEERING CHANGE

RIGHTSHIP

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RightShip

