







Olivier Kenter

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With less than 3 month to go, the focus is now on consistent implementation of the IMO 2020 0.50% Sulphur limit.

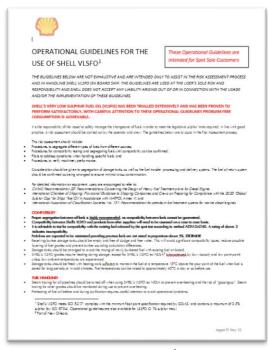
- Refining industry preparing for the transition
- Fuel suppliers preparing for new products and segregated logistics
- Shipowners and operator making fuel choices & preparing crews & vessels
- Preparations by Ports, Port States and authorities

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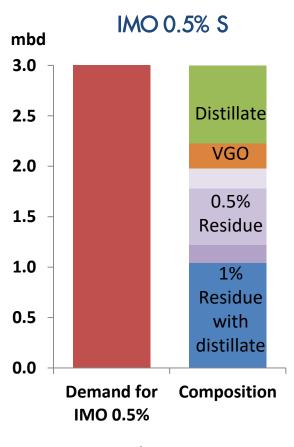
Shell's Preparation for IMO 2020

- Enhanced refineries crude flexibility and supply chain logistics
- Created Shell 0.50% VLSFO, an ISO 8217 stable fuel that complies with SOLAS
 - Tested over 100 different streams to develop our VLSFO
 - Partnered with and supported ship owners during trials
- Developed Shell fuel handling guidelines
 - Compatibility
 - Storage
 - Fuel handling
 - Fuel Changeover





Refineries deciding how to meet the demand from shipowners.



Crude



Changing crude diet to meet new demand

Residue destruction



- Investing in residue upgrading
- Investing in distillate capacity

Segregation



Improving segregation between LS and HS Crude, feedstocks and blendstocks

Blending

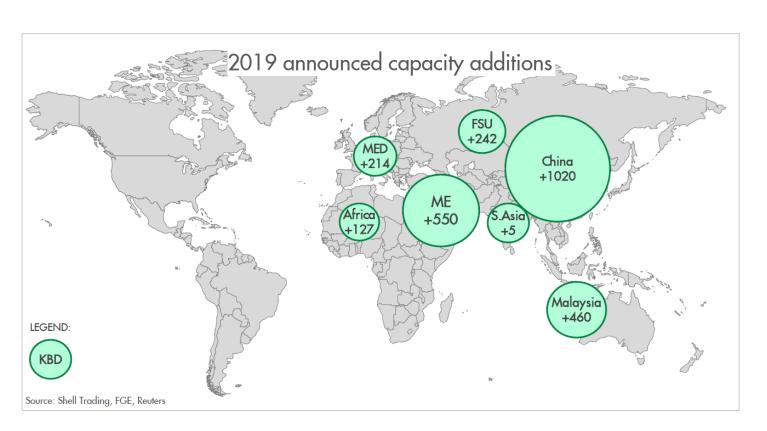


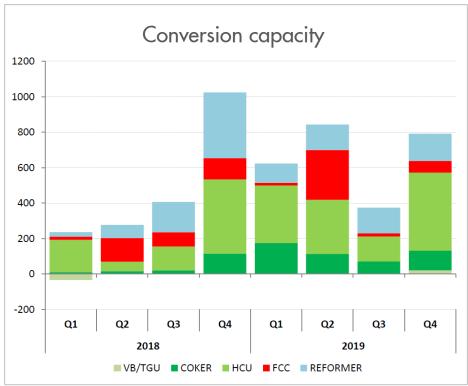
- Selecting blend components meeting 0.50%VLSFO
- Quality control

Source: STASCO Ltd,

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Refining industry investing to meet new and changing demand driven in part by the IMO 2020 Sulphur specification.





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Ship owners have a number of choices of how to comply with the Sulphur specifications

0.50 % S VLSFO



- Minimize operational difficulty and cost
- Variability of quality of blends per supplier

Shell will supply 0.50% VLSFO

Marine gasoil



- Convenient and widely available
- Operational experience in industry
- Higher cost

Marine Gasoil will remain key products for Shell

HSFO & Scrubber



- Lower cost fuel vs investment and operating costs
- Open vs Closed loop design
- Port restrictions?

Shell can supply HSFO 3.5%

LNG

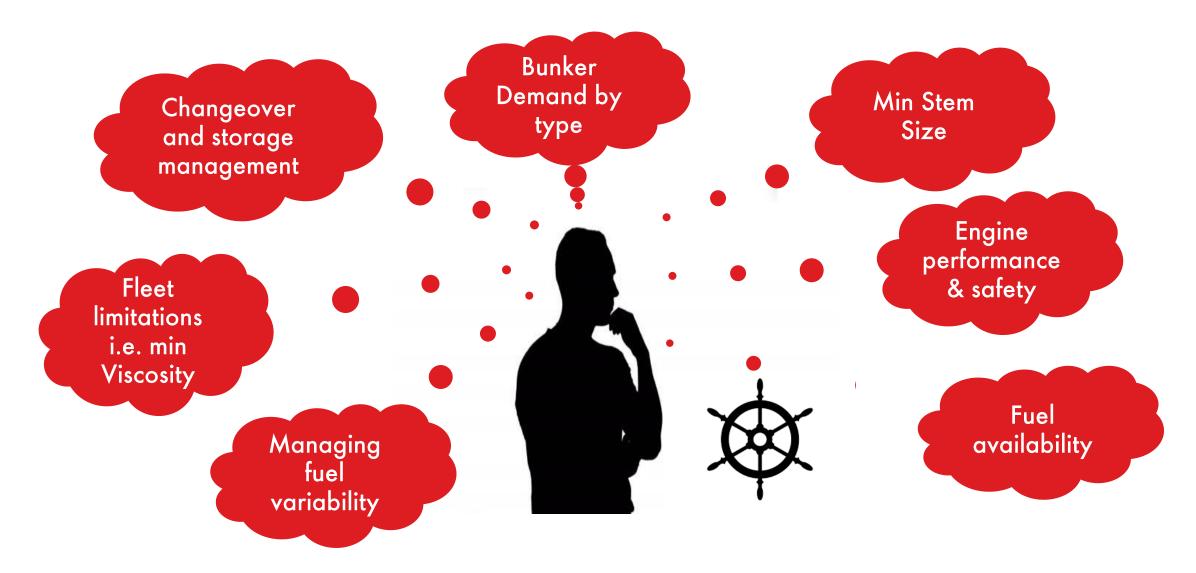


- Proven technology and reduction Sox/Nox
- Lower CO2 emissions
- Growing availability

Shell is an innovation leader in LNG

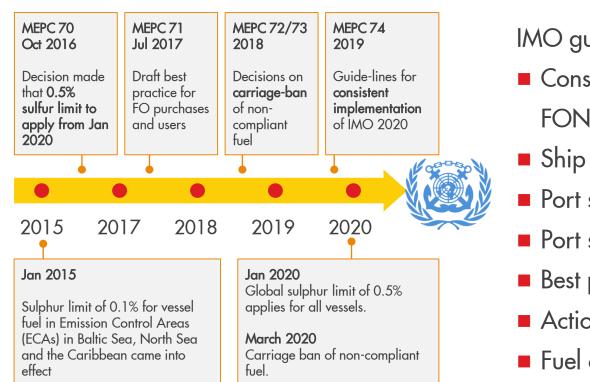
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IMO 2020...Are ship owners ready for the delivery?



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Following the May 2019 MEPC 74 meeting the focus is now on Consistent Implementation of the 0.50% Sulphur limit.



IMO guidance documents:

- Consistent implementation including Fuel non-availability report
 FONAR
- Ship implementation plan
- Port state control guidelines covering inspections
- Port state guidance on addressing non-compliant fuel oil on ships

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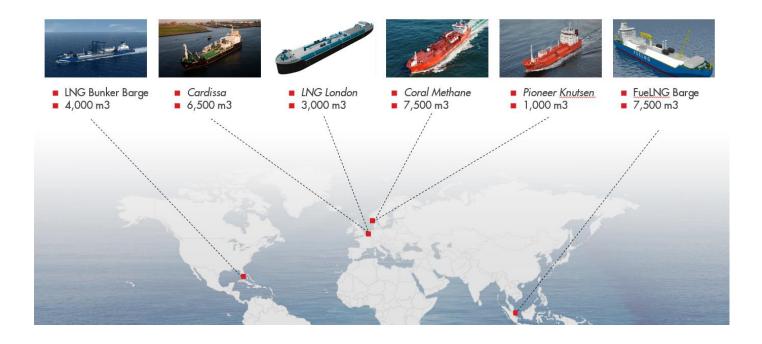
- Best practice for members states fuel oil quality & fuel supply
- Actions in case of EGCS (scrubber) failure
- Fuel oil sampling

Key role for Port States to enforce compliance in an effective and consistent manner

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Beyond IMO 2020

- Shell is preparing to support meeting the IMO GHG targets.
 - Expanding LNG bunkering facilities



- Biofuels including first Bio HSFO trial in collaboration with Maersk and the Dutch government
- Future low carbon fuels including Hydrogen



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