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**ExxonMobil**

Marine Port Guide

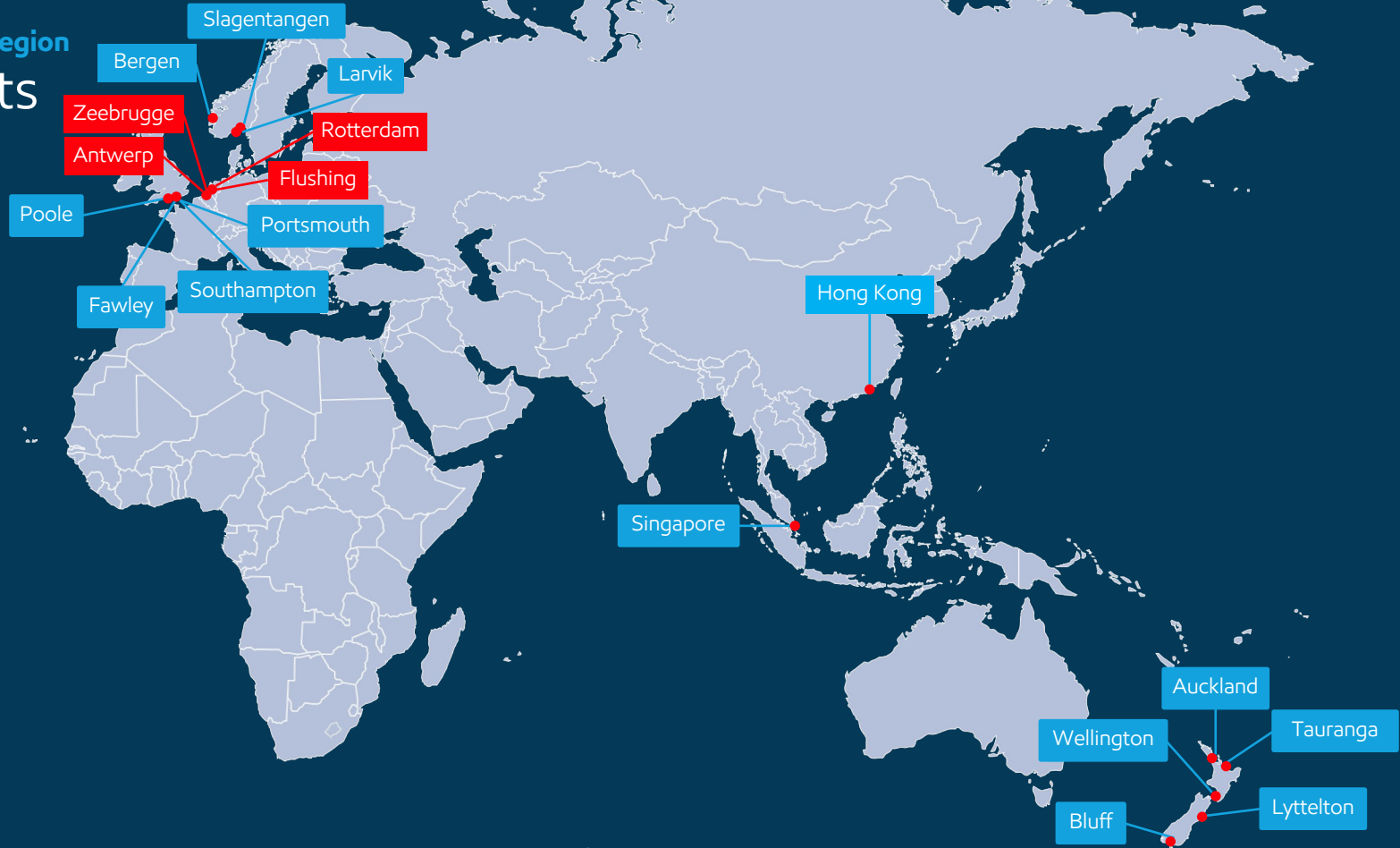
**ARA Region**



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# ARA Region Ports



ARA Region

# Marine Port Guide

## Quality, Reliability, Integrity

ExxonMobil has more than 50 years of experience in supplying high-quality fuels to the marine industry.

Our high-quality fuels help deliver consistent performance to vessel owners and operators worldwide. We maintain high standards of integrity and ethics across our operations to help provide peace of mind and enable owners and operators to deliver reliably.<sup>1</sup>

## About ports in ARA

- Europe's largest bunkering hub
- Strategic connectivity to northwest Europe


<sup>1</sup> [Marine Fuel Commitment to Quality | ExxonMobil Marine](#)








# Marine Port Guide

## ExxonMobil in ARA


 Antwerp and Rotterdam refineries produce low Sulphur content fuels with combined capacity of 495,000 barrels/day.

 Dedicated barging capability in ARA ports, including estuary barges in ports like Zeebrugge.

 First to supply ECA-compliant fuel via an independently accredited mass flow metering system (MFMS) in 2018.

 Unique branded fuels offer:

- EMF.5™ low-sulphur marine fuels – Engineered Marine Fuels 0.5%S
- ExxonMobil Premium HDME 50™ fuel – ECA-compliant fuel





 Alternative fuels offer:

- Drop-in Bio Marine Fuel Blends offer

## Delivery Ports of ARA



ExxonMobil is also present in the following delivery ports:

- |   |  |   |
|---|--|---|
|  Terneuzen |  Moerdijk |  Ghent |
|  Dordrecht |  Sluiskil |   |

# Product Offer

Port	Conventional Fuels			Bio Marine Fuel Blends	
	VLSFO (0.5%S)	DISTILLATE	ECA FUEL (0.1%S)	BIO VLSFO (0.5%S)	BIO ECA FUEL (0.1%S)
Antwerp	EMF.5™ - RMG 380	DMA - 0.1%S	EM Premium HDME 50™	BIO - RMG 380	EM BIO HDME 50™ Blend
Flushing	EMF.5™ - RMG 380	DMA - 0.1%S	EM Premium HDME 50™	BIO - RMG 380	EM BIO HDME 50™ Blend
Rotterdam	EMF.5™ - RMG 380	DMA - 0.1%S	EM Premium HDME 50™	BIO - RMG 380	EM BIO HDME 50™ Blend
Zeebrugge	EMF.5™ - RMG 380	DMA - 0.1%S	EM Premium HDME 50™	BIO - RMG 380	EM BIO HDME 50™ Blend
Terneuzen			EM Premium HDME 50™		EM BIO HDME 50™ Blend

ExxonMobil offers a range of options for vessel operators compliant with the IMO Sulphur cap requirements and meeting ISO8217:2017 (except the FAME component which meets EN14214 for Bio Marine Fuel Blends)

Contact our international sales team for more information about our fuel offerings at ARA ports

Europe (Brussels)  
Email: [marine.fuels@exxonmobil.com](mailto:marine.fuels@exxonmobil.com)

Asia Pacific  
Email: [DS-F&L-AP-MARINE@exxonmobil.com](mailto:DS-F&L-AP-MARINE@exxonmobil.com)

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# Product Information – Conventional Fuels

	EMF.5™ (RMG 380)	EM Premium HDME 50™ (exceeding RMD 80)	MGO (DMA)
<b>Sulphur content</b>	Max 0.50%	Max 0.10% (ECA)	Max 0.10%
<b>Viscosity</b>	Formulated to meet OEM requirements	30-45 cSt at 50°C	2-6 cSt at 40°C
<b>Flash Point</b>	Min 60°C	Min 70°C	Min 60°C
<b>Al + Si, mg/kg</b>	Max 60ppm	<5ppm	N/A
<b>Delivery Method</b>	Barge	Barge	Barge
<b>Info</b>	Can safeguard engines running on 3.50% sulphur fuels; range offers improved combustion while minimising waxing	No residual material; cleaner engines compared to HSFO, no cat-fines and low ash build up in engine; excellent ignition quality; excellent lubricity	Minimum requirement for fuel treatment; no heating requirement
<b>Website link</b>	<a href="#">EMF.5™ (pdf)</a>	<a href="#">EM Premium HDME 50™</a>	<a href="#">MGO (pdf)</a>

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# Product Information – Bio Marine Fuel Blends

	BIO-VLSFO (except FAME)	BIO – ECA FUEL (except FAME)
<b>Sulphur content</b>	Max 3.50%	Max 0.10% (ECA)
<b>Viscosity</b>	Formulated to meet OEM requirements	Formulated to meet OEM requirements
<b>Flash Point</b>	Min 60°C	Min 60°C
<b>Bio content</b>	Max 30vol% FAME	Max 25vol% FAME
<b>FAME</b>	Meets EN14214	Meets EN14214
<b>Handling</b>	Drop in fuel*	Drop in fuel*
<b>Delivery Method</b>	Barge	Barge
<b>Info</b>	Reduced estimated lifecycle GHG emissions compared to conventional petroleum-based liquid fuels**	Reduced estimated lifecycle GHG emissions compared to conventional petroleum-based liquid fuels**
<b>Website</b>	<a href="#">Bio Marine Fuels</a>	<a href="#">Bio Marine Fuels</a>

\*Consult with engine manufacturer. OEMs may limit bio blend percentages or specific bio components for certain engines.

\*\*Benefit compared with conventional petroleum-based liquid marine fuels, calculated on an energy basis. Estimated well-to-wake CO2 emissions reduction calculated using Energy Directive (2018/2001/EU Annex V) (“RED II”). Actual results may vary and lifecycle GHG emissions reduction can vary with each batch and will depend on factors such as the specific feedstock and production process.

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