



ROYAL
ASSOCIATION OF
NETHERLANDS
SHIPOWNERS

The way towards zero emission shipping

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(KVNR)



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Environmental regulations for shipping

- ▶ CO2 (IMO strategy with targets 2030 and 2050)
- ▶ Reduction of Volatile Organic Compounds (VOC)
- ▶ NOx (NECA in North Sea as from 1/1/2021)
- ▶ Reduction of under water noise for animal welfare
- ▶ Sulphur limitation in shipping fuels worldwide
- ▶ Improving fuel quality
- ▶ Reduction of Black Carbon (BC) in Arctic waters
- ▶ Biofouling to avoid invasive species
- ▶ Ballast water treatment to avoid invasive species
- ▶ Reduction of plastic pollution into the seas



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What is the mission of the Dutch shipowners?

- ▶ Ambition KVNR: Min. 70% absolute CO₂ reduction in 2050 compared to 2008
(see: www.kvnr.nl/schoon)
- ▶ First zero emission vessels under Dutch flag will sail before 2030
(also mentioned in the Dutch Green Deal for shipping and ports)
- ▶ KVNR has a CO₂ database with data from the NL fleet to anticipate the discussions hereon (→ pro-active approach instead of waiting for regulators!)



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What do we need to decarbonize?





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Thank you for your attention!

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