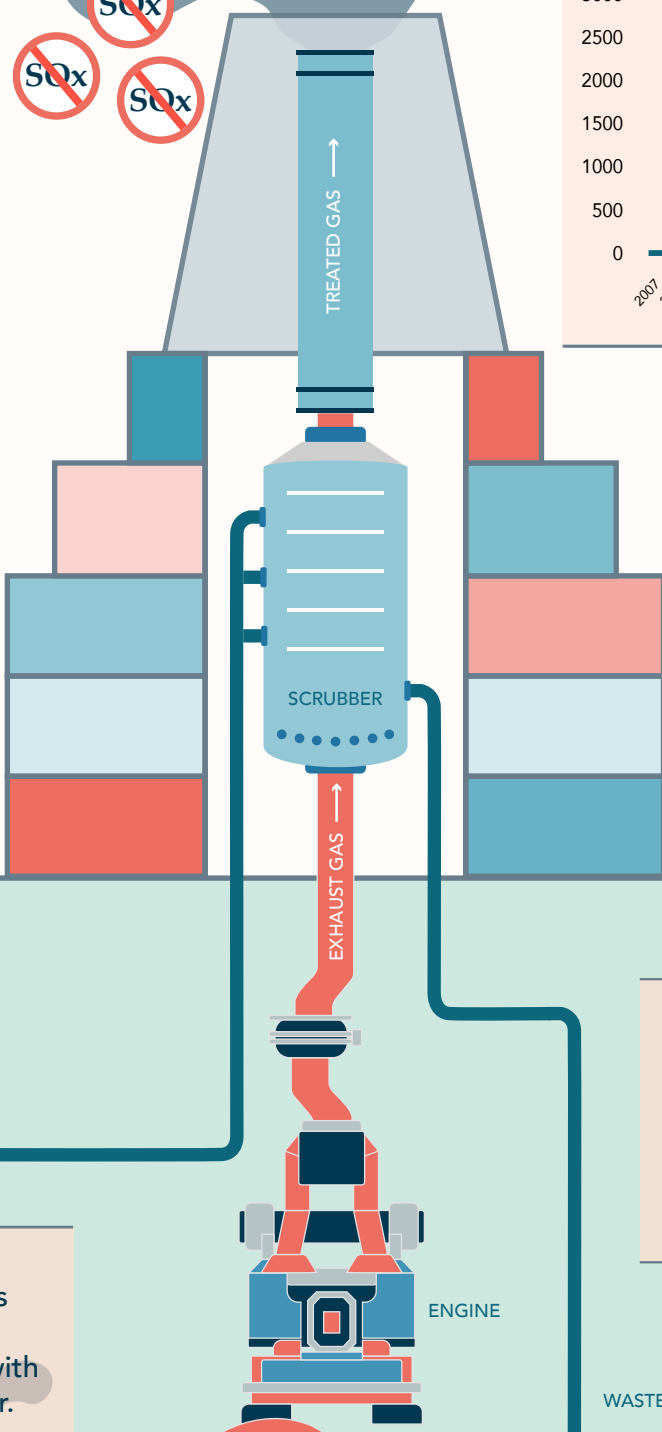
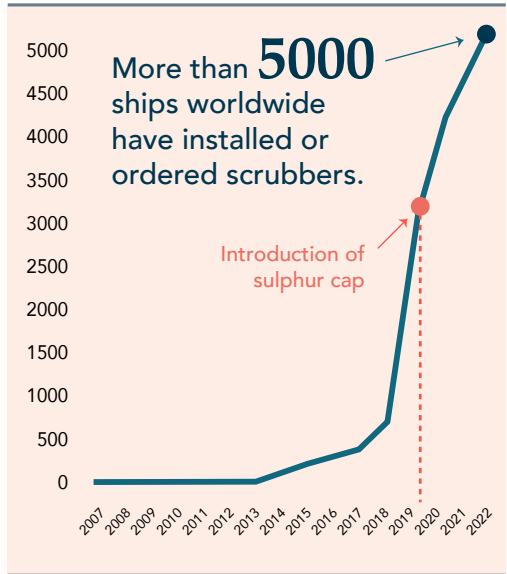
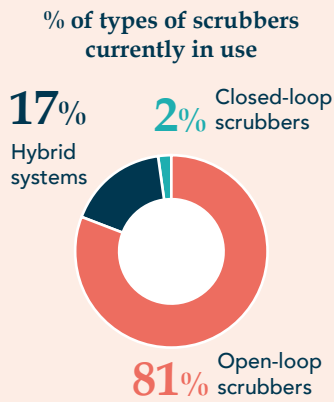


Scrubbers: a false solution to the IMO's sulphur cap

Turning an air pollution problem...

MARPOL* Annex VI allows ships to reduce sulphur emissions by fitting scrubbers instead of using cleaner fuels.

*MARPOL: International Convention for the Prevention of Pollution from Ships

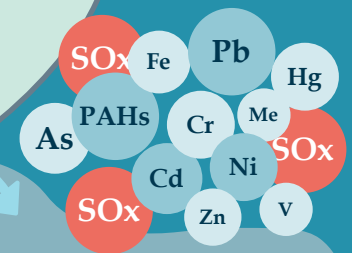


Wastewater from scrubbers creates serious environmental problems by redistributing pollutants to the ocean, contributing to acidification, eutrophication and ecotoxicological effects.

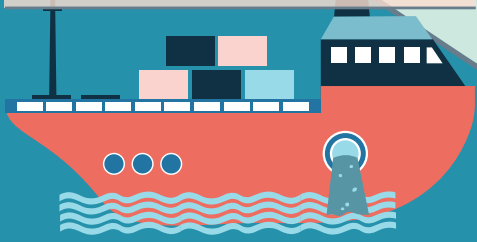
With increasing fuel prices, more shipowners are installing scrubbers.

Scrubber wastewater contains sulphur which combines with seawater to form a strong acid, as well as heavy metals, PAHs and other toxic substances.

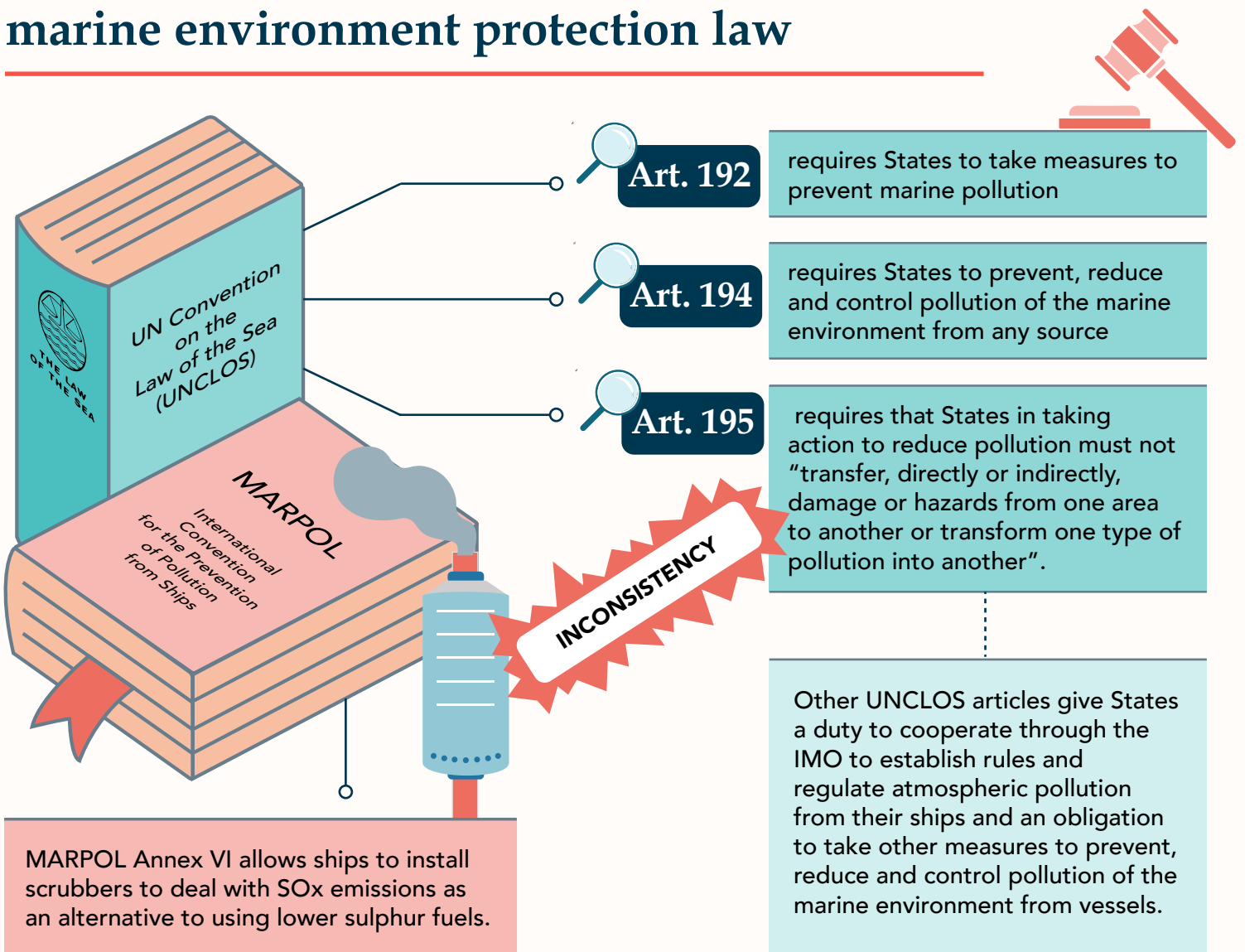
~10 trillion litres of scrubber wastewater discharged by ships fitted with scrubbers globally each year.



...into an ocean pollution problem



Inconsistencies with international marine environment protection law



Recommended actions

For States

- Support IMO measures to prohibit scrubbers as a means of complying with the MARPOL sulphur regulation.
- Until a global ban is introduced, support IMO measures to prohibit the use of scrubbers in sensitive waters including the Arctic.
- Introduce measures to prohibit the use of scrubbers within domestic waters.

For Ship Owners

- Use distillate or cleaner alternative fuels to comply with fuel sulphur limits.
- Do not make further investments in scrubbers.

For IMO

- Consider the need for consistency of measures adopted under MARPOL with UNCLOS.

