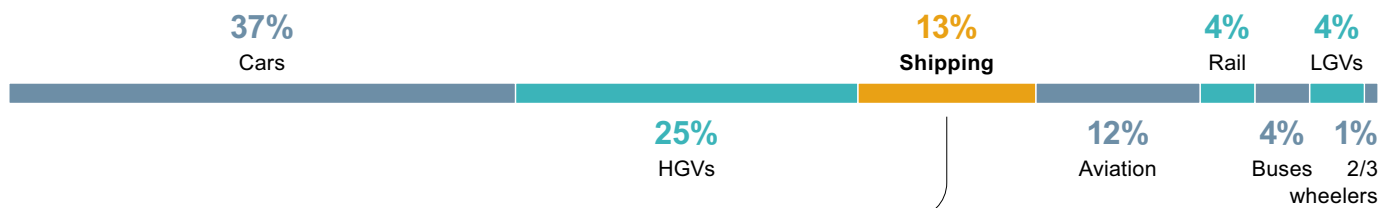


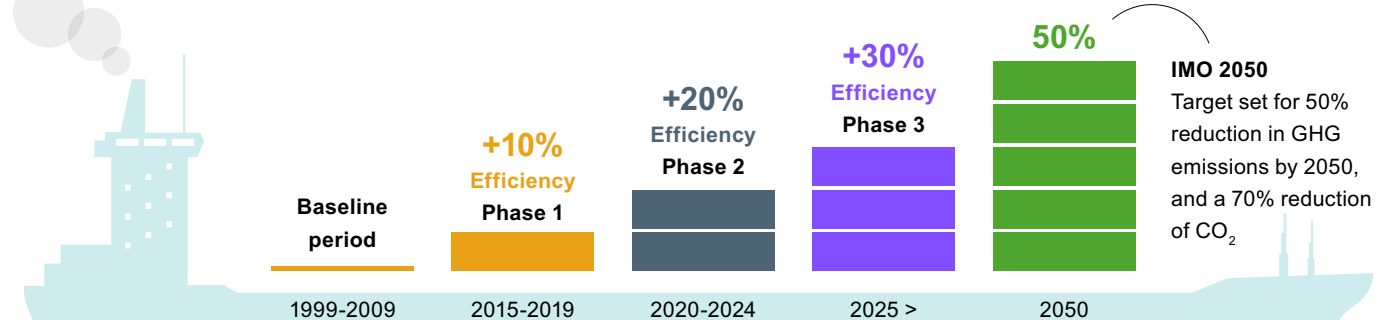
Routes to cleaner shipping

Shipping is the third largest CO₂ emitter within the global transport sector ...

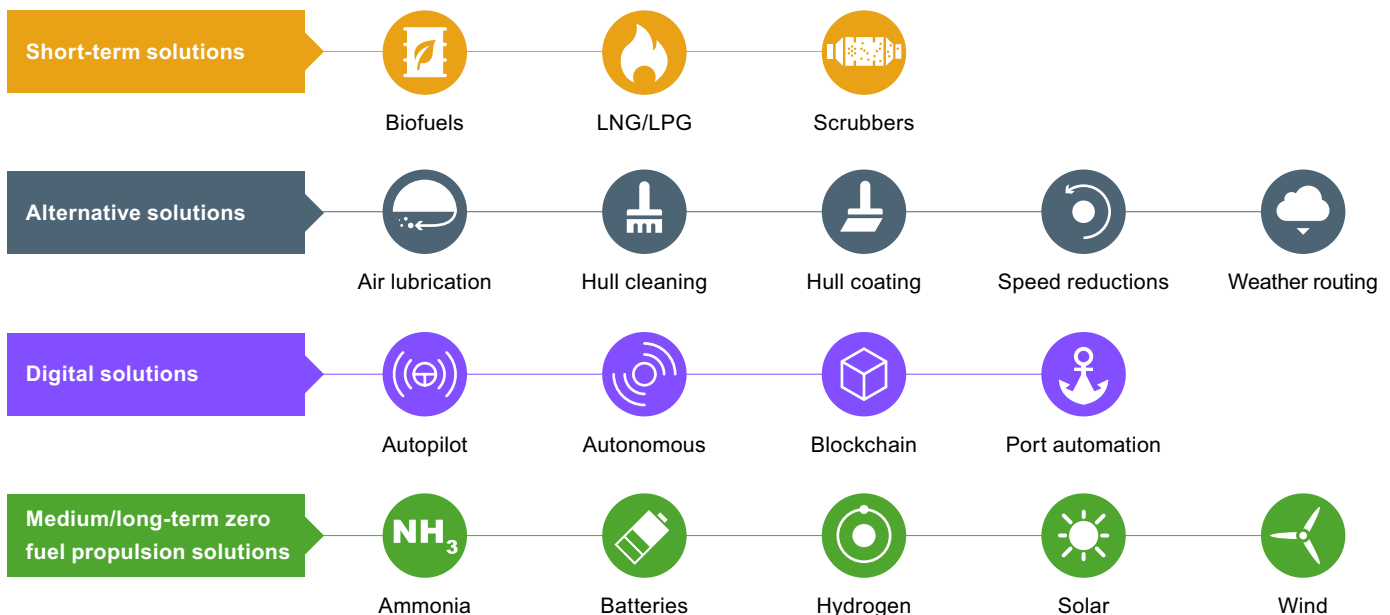


... and needs to hit these targets to decarbonise by 2050

IMO Energy Efficiency Design Index (EEDI) timeline for new ship emission reduction



Fuel technology and digitalisation should enable shipping companies to reduce carbon and sulphur emissions



>\$310bn

Cost savings across the marine industry by implementing the IMO's 'Ship Energy Efficiency Management Plan' (SEEMP) and the EEDI efficiency plan by 2030

\$38bn

Annual sector savings from utilising digital technologies. With expensive paperwork and processes reduced, there is potential for R&D in clean technologies

\$1trn

Switching to green ammonia as a primary source of propulsion fuel to meet the IMO's GHG emissions targets would require significant investment

Source: IBM, UCL, HSBC (2015)