



Part Session B – Technology focus: energy vectors Part 1 – Low-carbon energy vectors

The view of shipowners

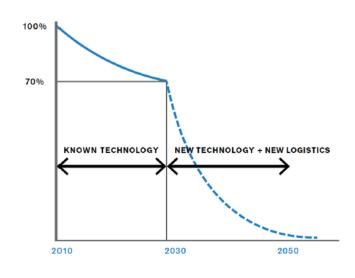
- from a swedish perspective

Mr. Fredrik Larsson, Swedish Shipowners Association



Number 1 - Energy efficiency







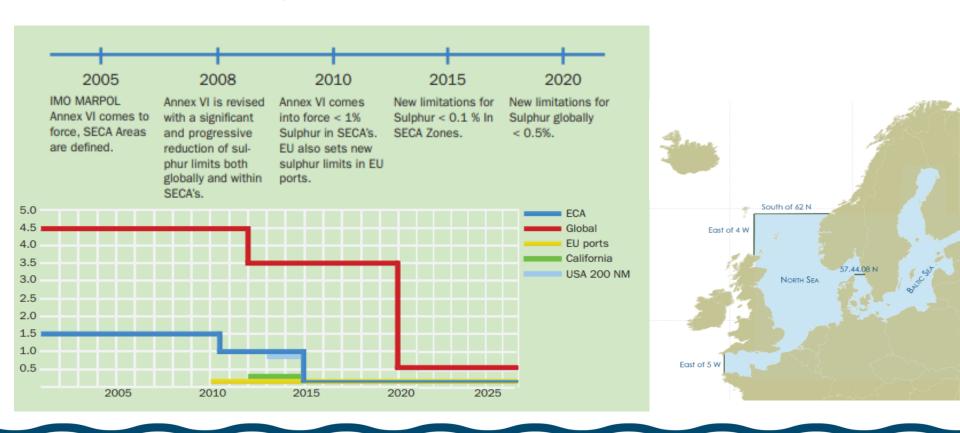
Focus today is all about...







But, for us it started with SOx...





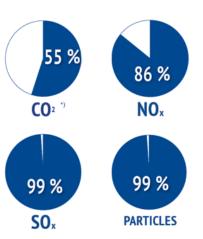
Which led to...

- LNG
- Methanol



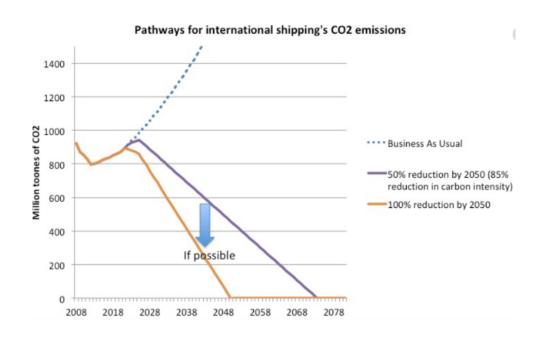


EMISSION REDUCTION





IMOs climate deal...



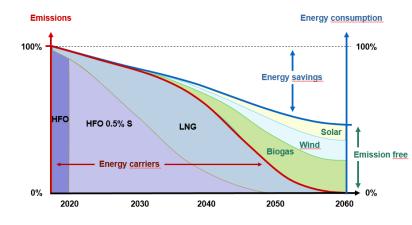


May lead us to this...

- LBG
- Bio-methanol
- Electricity
- Hydrogen
- Ammonia
- Solar
- Wind







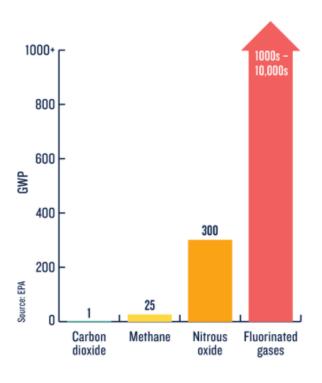


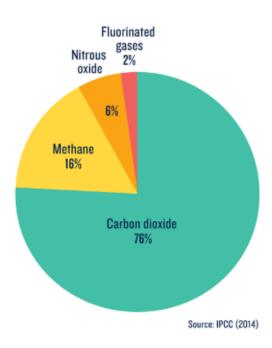
But, where will focus be next...





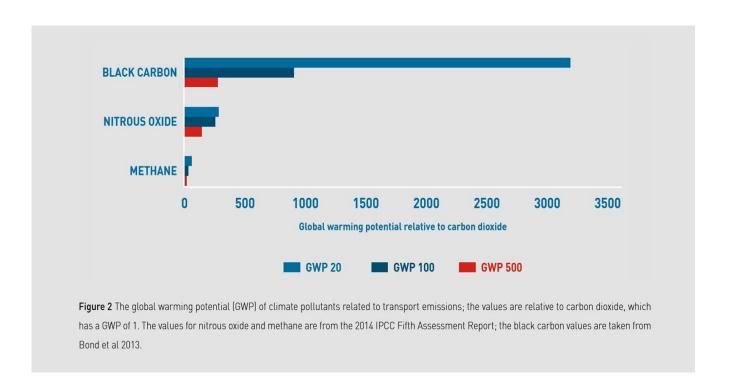
F-gases...?







Black Carbon...?





Stepwise approach vs. Holistic



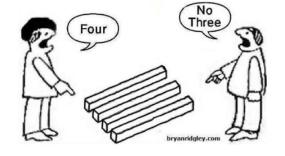




UNFCCC vs. IMO?



CBDR-RC





NMFT



What shipping need more of...







opportunity
idea
earnings
development
innovation
experience
curiosity
growth



Conclusions

- We are aware of the problem
- Call for a holistic view
- Focus on absolute reductions
- Prefer technology neutral approach
- Financial / Legal aspects are important to consider
- Support innovation and reward early movers
- Incentivize investments in green technology
- Shipping to be regulated by IMO

