

H2SHIPS final conference 29 June 2023 Delft

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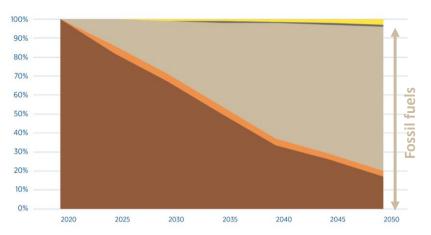
Transition pathways for IWT by 2035 and 2050



The graphs below describe the development of fuel share (in %) within the fleet (new and existing vessels) towards 2050...

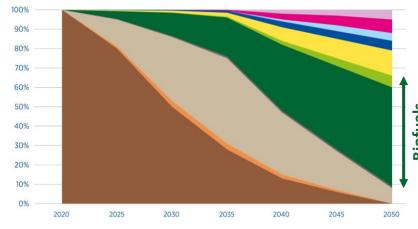


... in the "business-as-usual" scenario



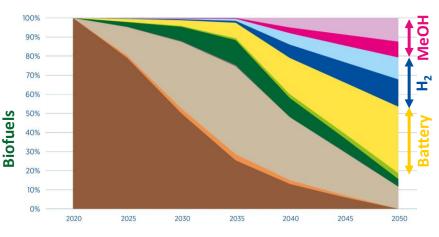
GHG: -22% by 2050 NOx: -76% by 2050 PM: -83% by 2050

... in the "conservative" pathway



GHG: -91% by 2050 NOx: -90% by 2050 PM: -96% by 2050

... in the "innovative" pathway



GHG:-91% by 2050 NOx: -94% by 2050 PM: -98% by 2050



Many challenges lie ahead: 3 perspectives



FINANCIAL

- 1 important financial gap 7 bn€
- 2 lack of incentives to trigger investment decision on the side of individual vessel owner
 - 3 lack of certainty that the investment made will be future proof.

COMMERCIAL

4 - lack of certainty regarding the demand for low/zero emission vessels.

TECHNOLOGICAL

Lack of certainty regarding

- 5 the technologies which are the most adapted to my vessel
- 6 the availability of alternative fuel infrastructure
- 7 the availability of fuels (quantity and sustainable origin)

REGULATORY

8 – safety and standardisation

Pilot vessels are vital to allow progress!



















