

Decarbonizing shipping: The fast rise of low carbon marine fuels

Dirk Kronemeijer – CEO GoodFuels



Applying Biofuels in shipping is absolutely vital- and is practically the only option with real carbon impact

Shipping will need to reduce its average carbon intensity (gCO2 / TEU-km) by **more than** can be achieved through **energy efficiency interventions alone**.

- Report by UMAS, UCL & Lloyd's Register, 2016

	Emission reductions			Needs	
	CO ₂	SO _x	NO _x	Engine modification	Infra developments
GoodFuels	75 - 90%	100%	10%	NO	NO
LSMGO	0%	95%	0%	NO	NO
MGO+scrubber	-5%	95%	10%	YES	NO
LNG	0%	100%	90%	YES	YES



The Marine industry should learn from aviation and fast follow its track. In the Netherlands we should be proud of our world leading position in Bio-Marine and Bio-Aviation- and capitalize on it





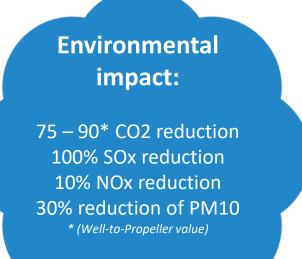
What needs to happen- entering the age of CO2

Government- help make & accelerate

- Lead by example
- Cherish your frontrunners
- Include Co2 in all tenders
- EU: expand Opt-in

Private sector- help make & accelerate

- See the opportunity
- Be Creative
- Just do it







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