



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

Current customers			Close friends & partners
Americas	EMEA	APAC	Global
<div>North America</div> <div>      </div>	<div>Europe</div> <div>       </div>	<div>Asia</div> <div>     </div>	<div>Aviation</div> <div>    </div> <div>Supply</div> <div>     </div> <div>Distribution</div> <div>  </div> <div>   </div> <div>NGOs'</div> <div>     </div>
<div>South America</div> <div>    </div>	<div>Middle East</div> <div>  </div>	<div>Australia</div> <div>   </div>	

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

Environmental impact:

75 – 90* CO2 reduction
 100% SOx reduction
 10% NOx reduction
 30% reduction of PM10

** (Well-to-Propeller value)*

Private sector- help make & accelerate

- ❁ See the opportunity
- ❁ Be Creative
- ❁ Just do it





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