

No enGineErS no Future!

Belgian Offshore Days Inn2POWER

SME involvement on H2

24/03/2022

Who? Why? What?



Niko Fierens

Naval architect Managing Director MULTI.engineering SME committee De Blauwe Cluster – representing 110 SME's

Sharing experiences

Examples of innovation projects Examples of projects related to H2 Suggestions





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Company | History & profile

History

- 1996 MULTI NV by Etienne Van Goeye
- 1998 DME (54% DAMEN)
- 1998 PHAROS, Vlissingen
- 2010 POLARIS, Komarno
- 2012 FORCE, Vught
- 2015 MULTI Engineering Group BV
- 2017 MARIDEA, Delft
- 2021 Jubilee 25th anniversary!



MULTI

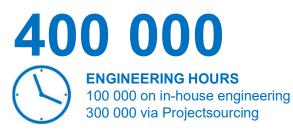
V	CLIENTS	Shipyards, ship owners, ship managers.
Þ	PROJECTS	Newbuilding, conversion, refit, repair & maintenance, operational advisory, improvement consultancy, damage investigation,
2	SECTORS	Megayachts, Polar expedition, Inland leisure vessels, Dredging, Offshore Installation, Naval, Workboats, Offshore renewables, Autonomous shipping, …
5	LOCATIONS	Europe (home market), USA, Middle East, South-East Asia.
*	DISCIPLINES	Concept development, Basic design, Naval Architecture, Detail engineering, Intact & damage stability, Hydrodynamics, Propulsion systems, Technical management, …
100	CLIENT FOCUS	Long-term, Loyalty, Partnership, Expectation management.



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Company | Facts & figures







ENGINEERS 80 in-house 140 in Projectsourcing





STAFF service team



DESIGN- & ENGINEERING OFFICES Temse, Vlissingen, Zwijndrecht, Komarno, Ghent, Delft



BUSINESS UNITS Industry, Building & Infra, Maritime & Offshore



OFFICES Temse, Vlissingen, Breda, Amsterdam, Komarno, Ghent, Delft, Zwijndrecht



Maritime & Offshore | Our clients



6 Markets





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Company | Vision & Mission

Belief

We believe in a strong economic and sustainable future for Europe. A healthy economy and a responsible attitude are the foundations for our society's prosperity.

Three challenges are determining this success:

- 1. Innovation and entrepreneurship
- 2. Productivity improvements
- 3. Ownership by qualified employees

Top quality engineering will play a prominent role in realizing these challenges.

read more

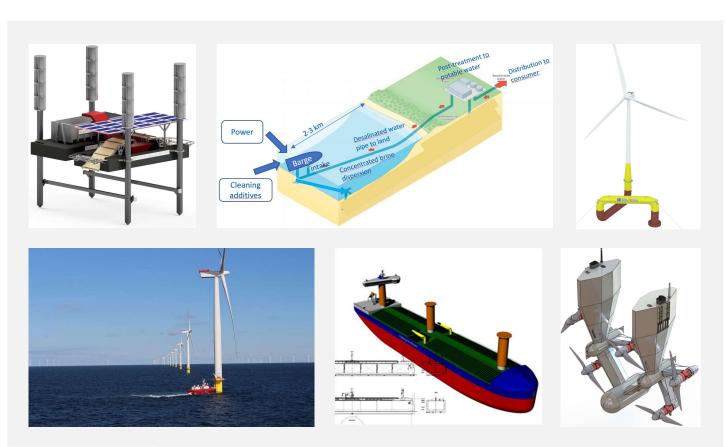
MULTI

	Engineers define our future . We empower our people to turn smart ideas into reality.
MISSION	To be the preferred Engineering Partner for our Clients and our Engineers. Working with us must always be a great experience.
PHILOSOPHY	Three major philosophies are embedded in our culture and DNA: One engineering family Customer king Sensational projects These require a real understanding of the expectations of our Clients and our Engineers. We have learned that knowing is far better than assuming, and that mutual respect goes beyond contractual obligations.
GOALS	MULTI commits to contribute maximally to the Sustainable Development Goals defined by the United Nations. We specifically focus to improve the quality of education, to provide clean water and energy, to create economic growth and employment through innovation and to protect the planet and marine life. We firmly believe these goals can only be achieved through partnerships .
	Marždea



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Maritime & Offshore | Ongoing innovation projects



Plastic river waste collectionStructural glass in shipbuildingSMARAGDOPALINTENSSE-H2Fresh water factoryOffshore wind floaterTidal turbines

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Wind assisted propulsion

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Innovation projects | Lessons learned



Time: don't underestimate it. It is worth it, but be aware.

Within partnership: transparancy, added value for each partner.

Think about how to make business out of it.

Support by VLAIO, DBC, ... is highly valuable.

Just do it!





Innovation projects | Side effects



It forces you to look for partnerships.

It pulls you out of your comfort zone.

It leads to more leads.

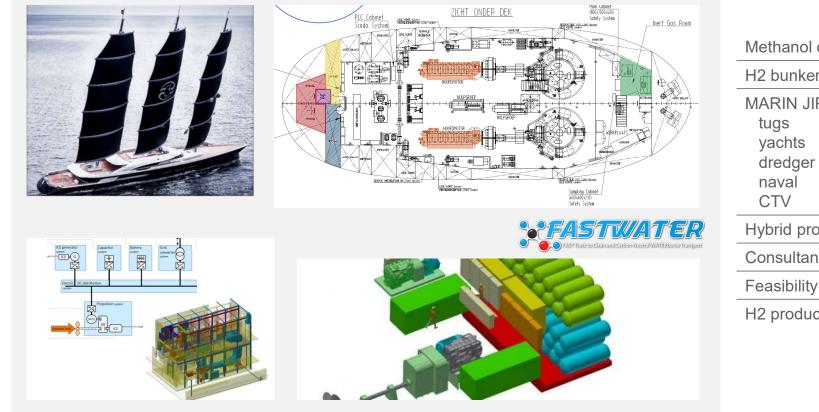




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MULTI | Alternative propulsion projects related to H2



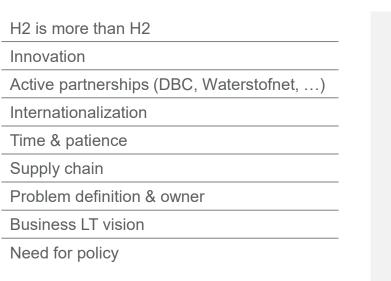


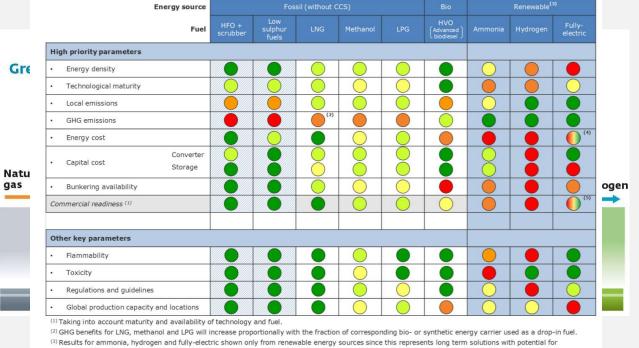
Met	Methanol conversion project	
H2 bunker barge concept		
tu ya di na	MARIN JIP ZERO tugs yachts dredger naval CTV	
Hyb	prid propulsion in yachting	
Cor	nsultancy projects for authorities	
Fea	asibility study on H2 production offshore	
H2	production linked to offshore wind	

MULTI



Suggestions on SME strategy towards H2





(4) Large regional variations.

⁽⁵⁾ Needs to be evaluated case-by-case. Not applicable for deep-sea shipping.

Source: DNV-GL Report No.: 2019-0567, Rev. 3, dd. 2019-07-05



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