MariGreen

Stahl vs. Kunststoff

Green Shipping innovation workshop

Staal vs. kunststof

Green Shipping innovation workshop

Thursday the 17th November 2016 14.00 till 17.30 Hours at:

-Hajé Hotel Schans 65, Heerenveen and -Solicam Minerva 42, Heerenveen





14.00	Welcome
14.15	Report on the current situation in MariGreen – Leo van der Burg, FME
14.40	Current overview about the expansion of Fiberglass Reinforced Plastics (FRP) in shipbuilding – Teun de Vries, TEUN
15.20	Low Pressure LNG Tank and Bunker Storage Solutions – Ekkehard Nowara, ABH Ingenieur-Technik GmbH
15.50	Form-free FRP Tank Construction – Christhopher Maltin, Biomethane Ltd
16.40	Discussion and Questions for the Speakers
17.00	Tour of the facilities at Solicam- Martinus Wijma
17.30	Drinks, snacks and networking





14.00 Welcome

- 14.15 Report on the current situation in MariGreen Leo van der Burg, FME
- 14.40 Current overview about the expansion of Fiberglass Reinforced Plastics (FRP) in shipbuilding Teun de Vries, TEUN
- 15.20 Low Pressure LNG Tank and Bunker Storage Solutions Ekkehard Nowara, ABH Ingenieur-Technik GmbH
- 15.50 Form-free FRP Tank Construction Christhopher Maltin, Biomethane Ltd
- 16.40 Discussion and Questions for the Speakers
- 17.00 Tour of the facilities at Solicam- Martinus Wijma
- 17.30 Drinks, snacks and networking





- 14.00 Welcome
- 14.15 Report on the current situation in MariGreen Leo van der Burg, FME
- 14.40 Current overview about the expansion of Fiberglass Reinforced Plastics (FRP) in shipbuilding Teun de Vries, TEUN
- 15.20 Low Pressure LNG Tank and Bunker Storage Solutions Ekkehard Nowara, ABH Ingenieur-Technik GmbH
- 15.50 Form-free FRP Tank Construction Christhopher Maltin, Biomethane Ltd
- 16.40 Discussion and Questions for the Speakers
- 17.00 Tour of the facilities at Solicam- Martinus Wijma
- 17.30 Drinks, snacks and networking





14.00	Welcome

- 14.15 Report on the current situation in MariGreen Leo van der Burg, FME
- 14.40 Current overview about the expansion of Fiberglass Reinforced Plastics (FRP) in shipbuilding Teun de Vries, TEUN
- 15.20 Low Pressure LNG Tank and Bunker Storage Solutions Ekkehard Nowara, ABH Ingenieur-Technik GmbH
- 15.50 Form-free FRP Tank Construction Christhopher Maltin, Biomethane Ltd
- 16.40 Discussion and Questions for the Speakers
- 17.00 Tour of the facilities at Solicam- Martinus Wijma
- 17.30 Drinks, snacks and networking





- 14.00 Welcome
- 14.15 Report on the current situation in MariGreen Leo van der Burg, FME
- 14.40 Current overview about the expansion of Fiberglass Reinforced Plastics (FRP) in shipbuilding Teun de Vries, TEUN
- 15.20 Low Pressure LNG Tank and Bunker Storage Solutions Ekkehard Nowara, ABH Ingenieur-Technik GmbH
- 15.50 Form-free FRP Tank Construction Christhopher Maltin, Biomethane Ltd
- 16.40 Discussion and Questions for the Speakers
- 17.00 Tour of the facilities at Solicam- Martinus Wijma
- 17.30 Drinks, snacks and networking





- 14.00 Welcome
- 14.15 Report on the current situation in MariGreen Leo van der Burg, FME
- 14.40 Current overview about the expansion of Fiberglass Reinforced Plastics (FRP) in shipbuilding Teun de Vries, TEUN
- 15.20 Low Pressure LNG Tank and Bunker Storage Solutions Ekkehard Nowara, ABH Ingenieur-Technik GmbH
- 15.50 Form-free FRP Tank Construction Christhopher Maltin, Biomethane Ltd
- 16.40 Discussion and Questions for the Speakers
- 17.00 Tour of the facilities at Solicam- Martinus Wijma
- 17.30 Drinks, snacks and networking





- 14.00 Welcome
- 14.15 Report on the current situation in MariGreen Leo van der Burg, FME
- 14.40 Current overview about the expansion of Fiberglass Reinforced Plastics (FRP) in shipbuilding Teun de Vries, TEUN
- 15.20 Low Pressure LNG Tank and Bunker Storage Solutions Ekkehard Nowara, ABH Ingenieur-Technik GmbH
- 15.50 Form-free FRP Tank Construction Christhopher Maltin, Biomethane Ltd
- 16.40 Discussion and Questions for the Speakers
- 17.00 Tour of the facilities at Solicam- Martinus Wijma
- 17.30 Drinks, snacks and networking

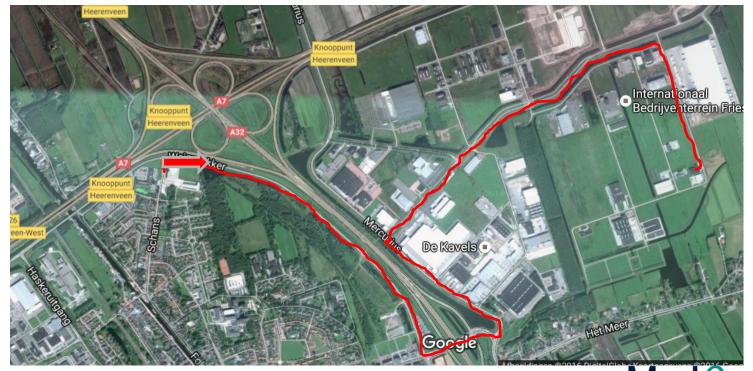




- 14.00 Welcome
- 14.15 Report on the current situation in MariGreen Leo van der Burg, FME
- 14.40 Current overview about the expansion of Fiberglass Reinforced Plastics (FRP) in shipbuilding Teun de Vries, TEUN
- 15.20 Low Pressure LNG Tank and Bunker Storage Solutions Ekkehard Nowara, ABH Ingenieur-Technik GmbH
- 15.50 Form-free FRP Tank Construction Christhopher Maltin, Biomethane Ltd
- 16.40 Discussion and Questions for the Speakers
- 17.00 Tour of the facilities at Solicam- Martinus Wijma
- 17.30 Drinks, snacks and networking















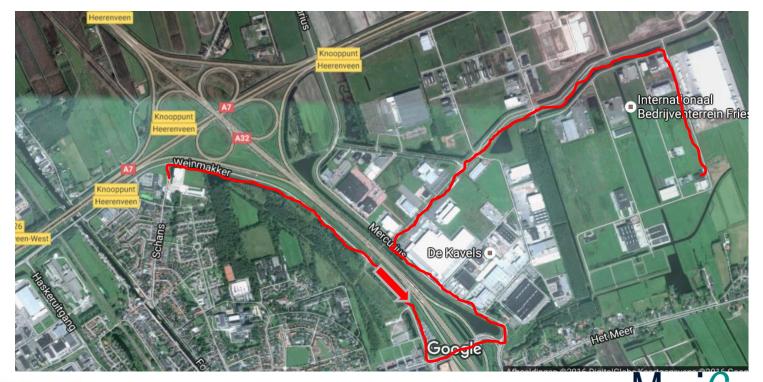


























































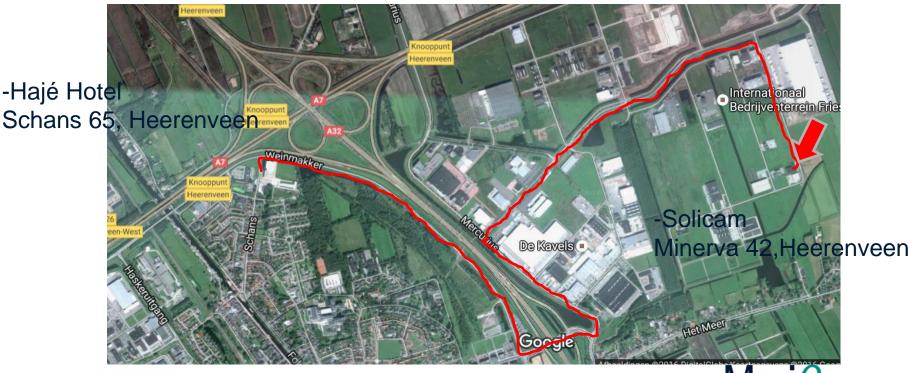






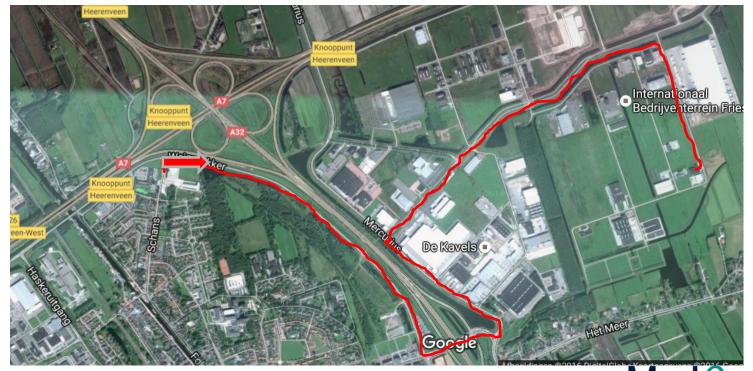
















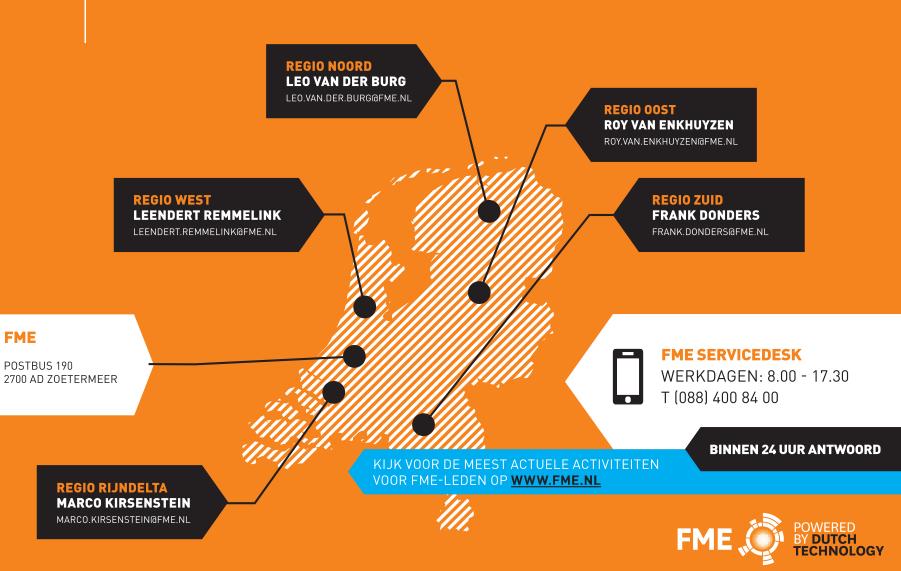


FME Association





Business Development Manager at FME:



Our mission

- Mobilisation and connection
- We mobilise and connect the technology industry in order to meet every
- FME is the number one employers' organisation in the technology industry.
- FME promotes its members' interests in The Hague, Brussels, and around the globe.
- FME also supports its member companies with regard to all aspects of business operations, from employment-law matters to environmental issues, and from innovation processes to the promotion of exports. In addition, FME works hard to promote the interests of its 80 affiliated trade associations.
- Key figures
- 2,200 member companies, employing 220,000 employees in total
- yearly turnover totalling € 70 billion
- direct export totalling € 37 billion
- 181 employees at FME
- support to 80 trade associations

MariGreen

• 12 Innovation projects in 4 areas



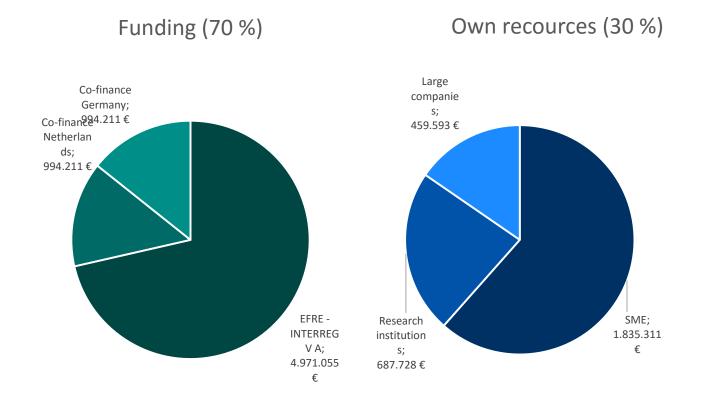








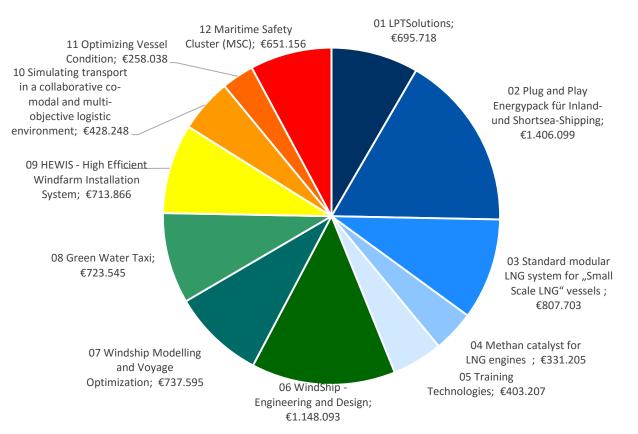
2.2 Finance of MariGreen Total budget: 9,9 m €







2.2 Finance of MariGreen 12 innovation projects









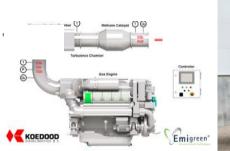
LNG Market Uptake

Innovation projects

- Low pressure LNG tank
- Plug and Play Energypack
- Standard modular LNG system
- Methan catalyst for LNG engines
- Training technologies















- Cost reduction for small scale LNG propulsion
- Reducing emissions of LNG propulsion
- Development of new training technologies



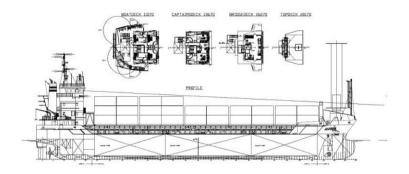
Wind Propulsion in Commercial Shipping

Innovation projects

- Windship Engineering and Design
- Windship Modelling and Voyage Optimization
- Green Water Taxi

- Development and testing of market-ready wind propulsion systems
- Improvement of prediction tools
- Integration of wind propulsion in route planning and optimization
- Development of small scale wind assisted













Green logistics and ressource awareness

Innovation projects

- HEWIS High Efficient Windfarm Installation System
- Simulating transport in a co-modal logistic environment
- Optimizing vessel condition and condition based maintenance

- Reduction and shifting traffic to ships
- Improvement of operating time and maintenance of the fleet
- Cost- and time reduction in the installation of offshore wind parks









Maritime Safety

Innovation projects

Maritime Safety Cluster

- Development of new safety courses in a cross-boarder network of training facilities
- Improvement of quality through cooperation and exchange of knowledge









Accompanying measures

- Knowledge transfer
- "Fachkräfteinitiative"

- Improvement of the cross-border network and exchange of knowledge in green shipping technologies
- Raising awareness of (potential) young professionals for the issues of green shipping







14.00	Welcome
14.15	Report on the current situation in MariGreen – Leo van der Burg, FME
14.40	Current overview about the expansion of Fiberglass Reinforced Plastics (FRP) in shipbuilding – Teun de Vries, TEUN
15.20	Low Pressure LNG Tank and Bunker Storage Solutions – Ekkehard Nowara, ABH Ingenieur-Technik GmbH
15.50	Form-free FRP Tank Construction – Christhopher Maltin, Biomethane Ltd
16.40	Discussion and Questions for the Speakers
17.00	Tour of the facilities at Solicam- Martinus Wijma
17.30	Drinks, snacks and networking



