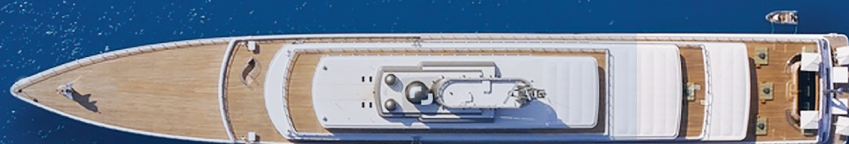


**FUTURE  
BRIDGE**

8 - 9 February  
HAMBURG, GERMANY



# GREEN MARINE VESSELS — SUMMIT



## SPEAKER BOARD

CHAIRMAN

**Sandith THANDASHERRY**  
CEO & Founder  
**Navalt**

**Daniel DEL CASTILLO MORA**  
Head of Sustainability  
**Navantia**

**Andreas SLOTTE**  
Head of Sustainable Development  
**Port of Helsinki**

**Tom KLOSTER FYLLGRAF**  
Key Account Manager  
**EltronicFuel Tech**

**Jong Keun YU**  
Principal Engineer and Researcher  
**Samsung Heavy Industries**

**Marco COIATELLI**  
Head of Basic and Executive Design  
**Azimut-Benetti Group**

**Christer BRUZELIUS**  
Senior Partner & Project Owner  
**Gotland Tech development AB**

**Dr Bernhard URBAN**  
Head of Development & Innovation  
**Lürssen**

**Bruno HERVAS**  
Naval Architect and Marine Engineer  
**Port of Barcelona**

**Uwe HEINE**  
Chief Technologist  
**Wartsila Marine Power**

**Sven KOMORA**  
Head of Fuel Cell Integration Project  
Cosmos / Machinery Department  
**Lürssen**

**Ulrik ALEXANDER TØNNESEN**  
Policy Advisor, Environment & Maritime Safety  
**ECSA European Community  
Shipowners' Associations**

**Giampaolo SIBILIA**  
Director EU Operation  
**Nuvera Fuel Cells**

**Maarten BOOT**  
Policy Advisor  
**FEPOR**

**Amar PARIKH**  
Head of Decarbonization Retrofits, Research  
& Development Two-Stroke Business  
**MAN Energy Solutions**

**Paul TURNER**  
Chief Strategy Officer  
**CMB.TECH**

## EVENT PARTNERED BY

**Eltronic  
FUELTECH**

BRONZE SPONSOR

**NUVERA®** 

PRESENTING PARTNER

## DAY 1 – Thursday 8th February 2024

**8:30** Registration and welcome coffee

**9:00** Welcome speech from the organizer

**9:05** Chairman's opening remarks  **Sandith THANDASHERRY** CEO & Founder **Navalt**

**9:10** **KEYNOTE ADDRESS**

**Exploring the opportunities in marine vessel energy hybridization**

- Examining the challenges of hybridization due to deck space constraints
- Determining the best balance of energy sources in ship design
- Current and future prospects for hybridization technologies
- Maximizing efficiency in the utilization of multiple energy sources



**Sandith THANDASHERRY**  
CEO & Founder  
**Navalt**

**9:45** **Examining the fast-developing technologies impacting the green marine vessel market and how they can benefit your activities**

- Developing battery solutions that are commercially competitive for as long as possible
- Advancements in the lengthening of battery range
- Propulsion, power electronics and control, system integration
- A focus on developing hybridization technologies
- Current and future prospects for fast-charging infrastructure
- Benefiting from developments in battery recycling



**Uwe HEINE**  
Chief Technologist  
**Wartsila Marine Power**

**10:20** **Exploring tomorrow's energy sources: Ammonia & Methanol**

- Equipment to handle new low carbon fuels in a safe way

**BRONZE SPONSOR**  
**Eltronic FUELTECH**



**Tom KLOSTER FYLLGRAF**  
Key Account Manager  
**Eltronic FuelTech**

**10:55** **COFFEE-BREAK · ICE-BREAKING SESSION**

**11:35** **Lürssen's approach to CO2-neutral yachting**

- Methanol as an alternative fuel in yachting
- First yacht project with methanol powered fuel cells
- Challenges for widespread use of fuel cells in shipping



**Dr Bernhard URBAN**  
Head of Development & Innovation



**Sven KOMORA**  
Head of Fuel Cell Integration  
Project Cosmos / Machinery Department  
**Lürssen**

**12:10** **An in-depth focus on the EU Fit for 55 and the impact on shipping & greening of vessels**




**Ulrik ALEXANDER TØNNESEN**  
Director Shipping & Trade Policy  
**ECSA European Community Shipowners' Associations**

**12:45** **LUNCH**

**13:50** **Identifying and overcoming the challenges in green retrofitting**

- Understanding the customer requirements & important design decisions
- Effective project lifecycle management
- Identifying the most suitable fuel for your needs
- Examining the access to different fuels and energy supplies across the globe
- Practical considerations for having 2 or more energy sources on board your vessels
- Exploring current and developing re-engining packages
- Cost minimisation strategies



**Amar PARIKH**  
Head of Decarbonization Retrofits, Research & Development  
Two-Stroke Business  
**MAN Energy Solutions**

**14:25** **How to tackle different Fuel Cell marine applications**

**PRESENTING PARTNER**  
**NUVERA®**



**Giampaolo SIBILIA**  
Director EU Operation  
**Nuvera Fuel Cells**

**15:00** **AFTERNOON NETWORKING BREAK**

**15:40** **CLOSING ADDRESS**

**Examining the opportunities and challenges in developing Hydrogen-powered vessels – Lessons learnt from the development of Gotland Horizon**

- Concept design and specifications
- Effectively working with the shipyard
- A focus on the current and developing technologies
- Reaching for the highest levels of fuel efficiency
- Achieving maximum fuel flexibility
- Addressing the ever-present safety concerns
- Developing the necessary Hydrogen infrastructure



**Christer BRUZELIUS**  
Senior Partner & Project Owner  
**Gotland Tech development AB**

**16:15** Chairman's closing remarks and end of day one

**16:30** Networking drinks reception

## DAY 2 – Friday 9th February 2024

8:45 Morning coffee

8:55 Chairman's opening remarks  **Sandith THANDASHERRY** CEO & Founder **Navalt**

9:00 **OPENING ADDRESS**

### Decarbonization in the maritime defense sector

Climate Change has become a threat to our security. Therefore, the concern for the Defense sector is continuously growing, offering both challenges and opportunities, especially for the Navy. ASD, the Aerospace, Security and Defense Industries Association of Europe has set up its Task Force on Green Defense, which aims to draw up a roadmap for the decarbonization of the European Defense sector, recognizing its strategic role and, at the same time, without jeopardizing the capabilities and operations required for the performance of the Armed Forces.



**Daniel DEL CASTILLO MORA**  
Head of Sustainability  
**Navantia**

9:35 **Benefitting from the perspective of a ship builder/operator on the current and future use of Hydrogen engines**

- Why Hydrogen?
- Perspectives on the development of Hydrogen as an alternative fuel
- The place of Hydrogen propulsion within our fleet
- New builds and retrofits
- Hydrogen refuelling – What are the challenges and risks for our operations?
- Addressing the ever-present safety concerns



**Paul TURNER**  
Chief Strategy Officer  
**CMB.TECH**

10:10 **Developing a comprehensive alternative marine power & charging infrastructure**

- Securing capability for all types of marine vessels
- Maximizing grid capacity
- The role of PPAs in shore power systems
- The importance of standardization
- Ensuring close cooperation in building and managing the shore power infrastructure
- Providing customer education regarding the development and extent of the charging infrastructure
- Cost considerations for the shore power infrastructure




**Andreas SLOTTE**  
Head of Sustainable Development  
**Port of Helsinki**

10:45 **COFFEE & NETWORKING BREAK**

11:25 **The Development of On-Board Carbon Capture & Storage (OCCS) System by SHI and the Economics of Operating OCCS**

- Demonstrate marine application of Carbon capture, liquefaction and storage process for amine-based solvent for 174k LNG carrier
- Propose waste heat recovery system to reduce thermal and electrical energy to operate OCCS
- Conduct the feasibility study to comply the IMO regulation



**Jong Keun YU**  
Principal Engineer and Researcher  
**Samsung Heavy Industries**

12:00 **How is technology contributing to the development of port and terminal infrastructure for the energy transition**



**Bruno HERVAS**  
Naval Architect and Marine Engineer  
**Port of Barcelona**

12:35 **LUNCH**

13:40 **PANEL DISCUSSION**


**How can the different stakeholders work together more effectively? What are the challenges and how can these be overcome?**




**Andreas SLOTTE**  
Head of Sustainable Development  
**Port of Helsinki**



**Paul TURNER**  
Chief Strategy Officer  
**CMB.TECH**



**Daniel DEL CASTILLO MORA**  
Head of Sustainability  
**Navantia**

14:15 **The importance of customer education regarding electrification and battery usage**

- Justifying electrification to your customer and the initial costs
- Ensuring the customer is aware of the long-term advantages
- Managing client concerns regarding range
- How environmentally conscious is your customer?
- Optimising your client feedback collection and analysis
- Managing customer concerns regarding used batteries



**Marco COIATELLI**  
Head of Basic and Executive Design  
**Azimut-Benetti Group**

14:50 **AFTERNOON NETWORKING BREAK**

15:20 **CLOSING ADDRESS**  
**EU Fit for 55 – Challenges and opportunities for ports and harbours**



**Maarten BOOT**  
Policy Advisor  
**FEPOR**

15:55 Closing word from the Chairman & close of conference

## SPONSORS

### BRONZE SPONSOR

# Eltronic FUELTECH

#### EltronicFuel Tech

Eltronic FuelTech A/S is a global engineering company, working for a zero-emission maritime industry. We develop and produce high- and low-pressure fuel systems that enable vessels to operate on greener, alternative fuels, including methanol and ammonia, while maintaining a safe and reliable operation. We provide life cycle services and support wherever your business takes you. We achieve this through our global presence and a team of dedicated professionals committed to your success.

### PRESENTING PARTNER

# NUVERA®

#### Nuvera Fuel Cells

Nuvera Fuel Cells, LLC manufactures heavy-duty, zero-emissions engines for mobility applications. With facilities located in the U.S. and Europe, Nuvera provides clean, safe, and efficient products designed to meet the rigorous needs of industrial vehicles and other transportation markets. Nuvera is a subsidiary of Hyster-Yale Group, Inc., which designs, engineers, manufactures, sells, and services a comprehensive line of lift trucks and aftermarket parts marketed globally primarily under the Hyster® and Yale® brand names. Hyster-Yale Group is a wholly owned subsidiary of Hyster-Yale Materials Handling, Inc. (NYSE:HY). Hyster-Yale Materials Handling, Inc. and its subsidiaries, headquartered in Cleveland, Ohio, employ approximately 7,800 people worldwide.



**FUTURE  
BRIDGE**

we provide certainty

WWW.FUTURE-BRIDGE.EU