

# SAIL TRAINING INTERNATIONAL CONFERENCE 2024

# Tall Ships and the Environment: Practical approaches and developments in Tall Ships design, build and operation

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### Preparations refit 2020

In 2019 a 'GO GREEN' workgroup was established to investigate the options for a more sustainable future of the Stad Amsterdam.

Renewals/changes to be carried out in a refit late 2019/2020











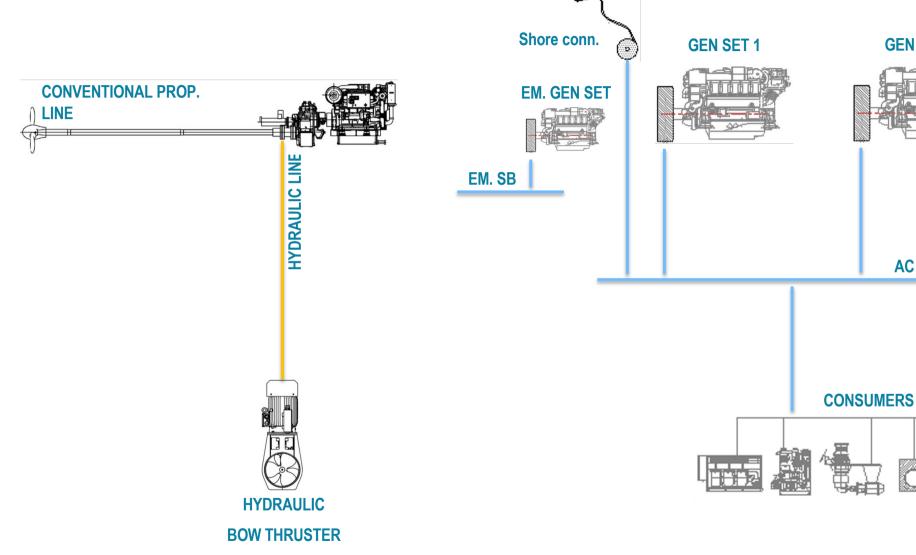


## **ENERGY CONCEPT'S Present Situation**



**GEN SET 2** 

**AC BUSBAR** 

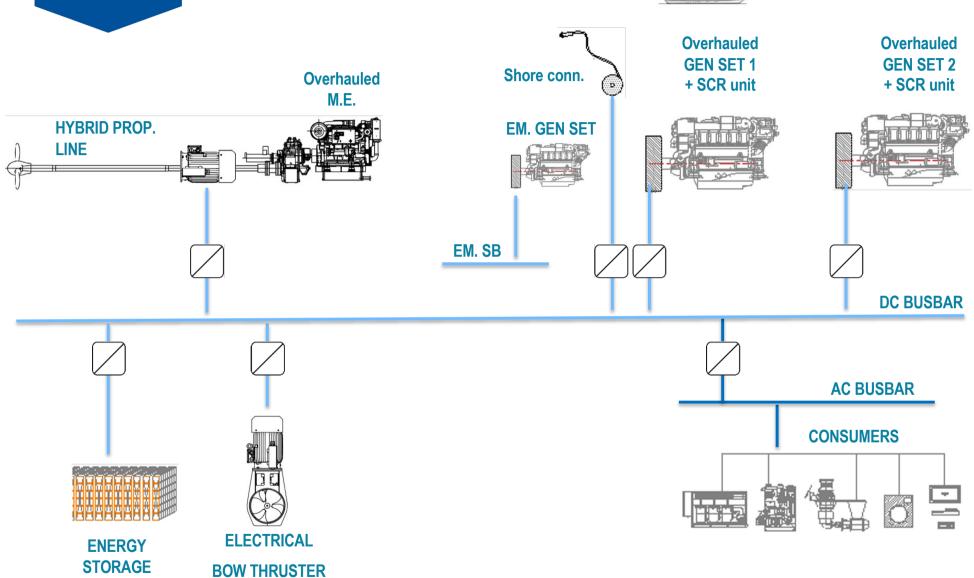






### **SCENARIO 1**



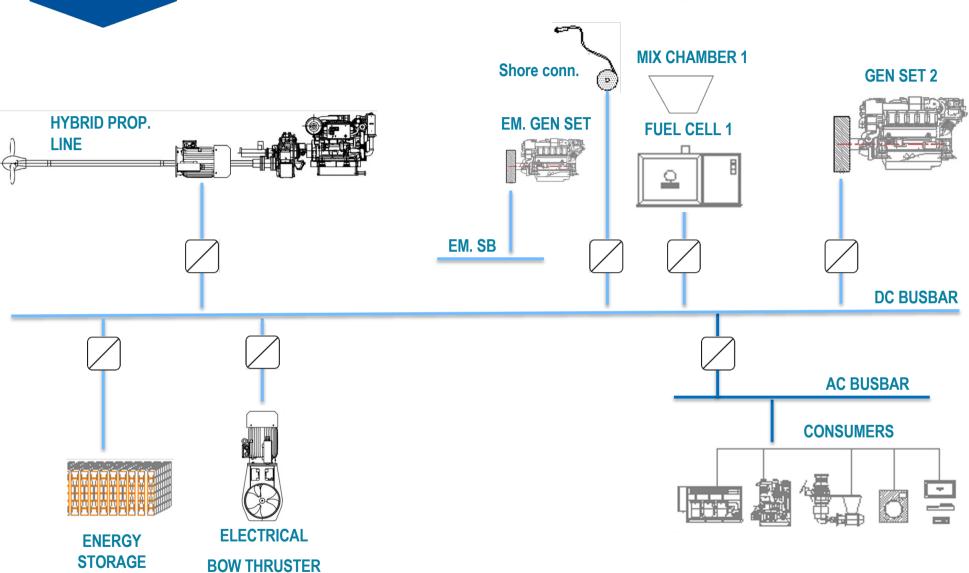






### **SCENARIO 2**





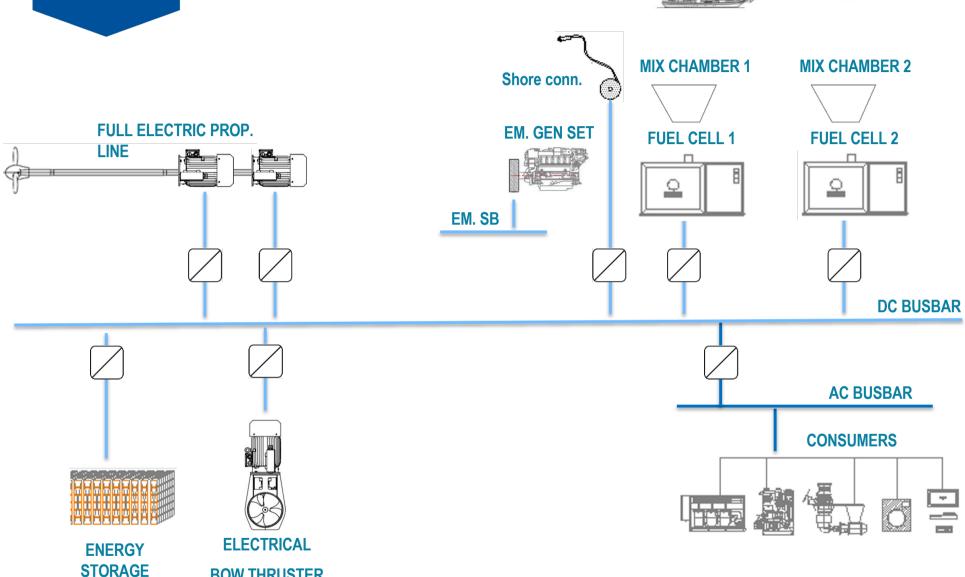




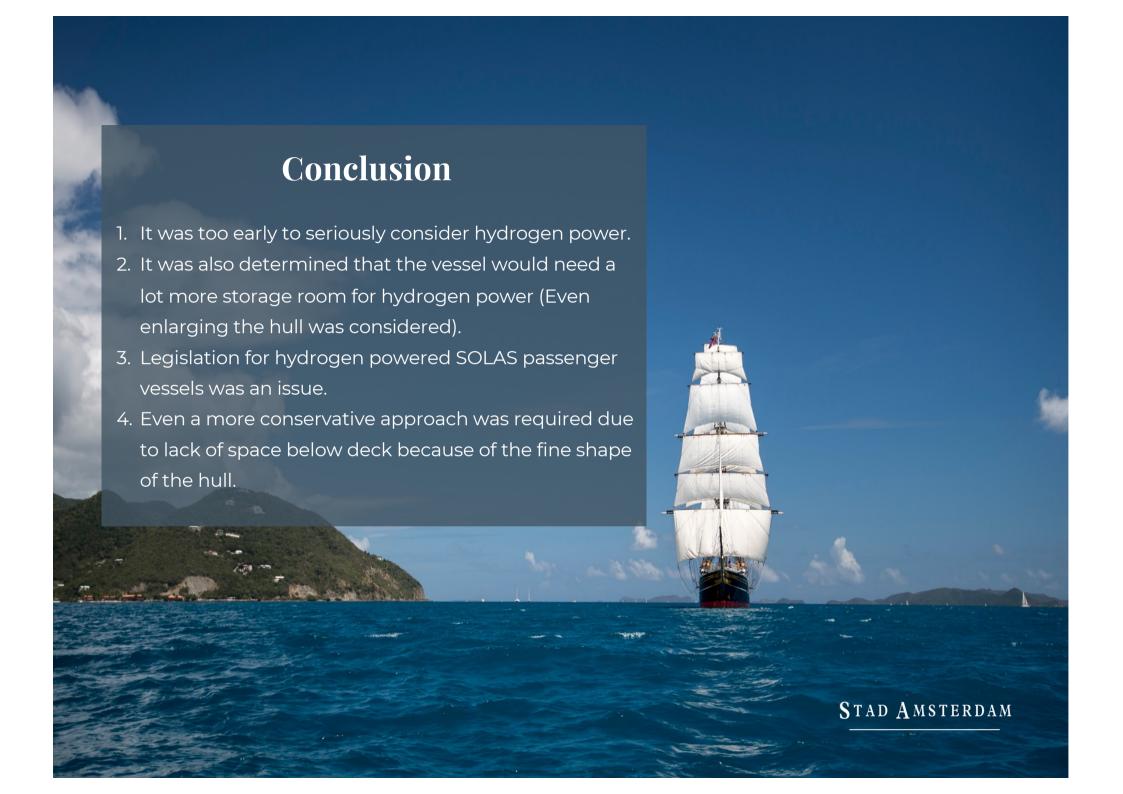
### **SCENARIO 3**

**BOW THRUSTER** 













### **Refit 2020**

- New efficient main engine with exhaust gas cleaning
- New smaller generators (110 => 90 Kw)
- Peak shaving (Battery pack)
- Improving shore power connection for worldwide voltages/frequencies
- Biological sewage treatment plant (MEPC.227 (64) (a)/Marpol annex IV 9.1.1. & 9.2.1. as amended)

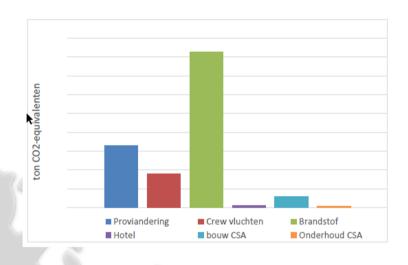






# Sustainability Studies 'development in progress'





Bio fuels

**HVO-30** 

HVO-100

**Shore Power** 



Catering/food

Travel awareness

Anti Fouling

Waste water treatment

Timeline 2023-2030-

2050





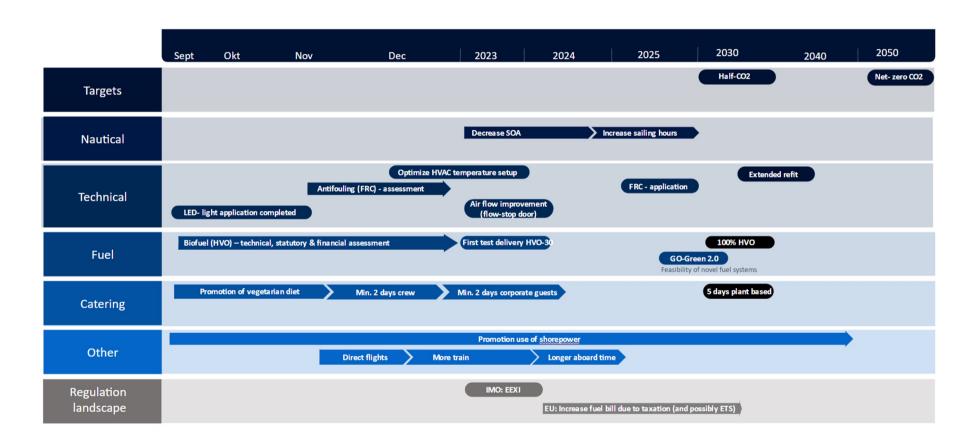








# Sustainability 'development in progress'



## **Data Collection**



19-nov-2024 19h30 LT



### Results so far

- 2315 hours of shore power in 2022/2023/2024
- Obtained permission to load HVO 100
- 27000 ltr of HVO-30 & 17500 ltr of HVO 100 bunkered
- 27 % of catering options are plant based
- Supply of HVO during world tour in most ports not available or very expensive.
- Battery pack / peak shaving with smaller gen sets partly do the job.
- Wastewater treatment plant working in ports (if allowed).





#### Baseblue cooperates with Stad Amsterdam on renewable biodiesel bunkering operation

in International Shipping News © 20/12/2023



Baseblue, the marine energy solutions provider, has successfully delivered renewable biodiesel to the Clipper Stad Amsterdam, a three-masted RASEBLUE clipper recognised for its design, marking a significant step towards decarbonisation and contributing to a more sustainable maritime industry.

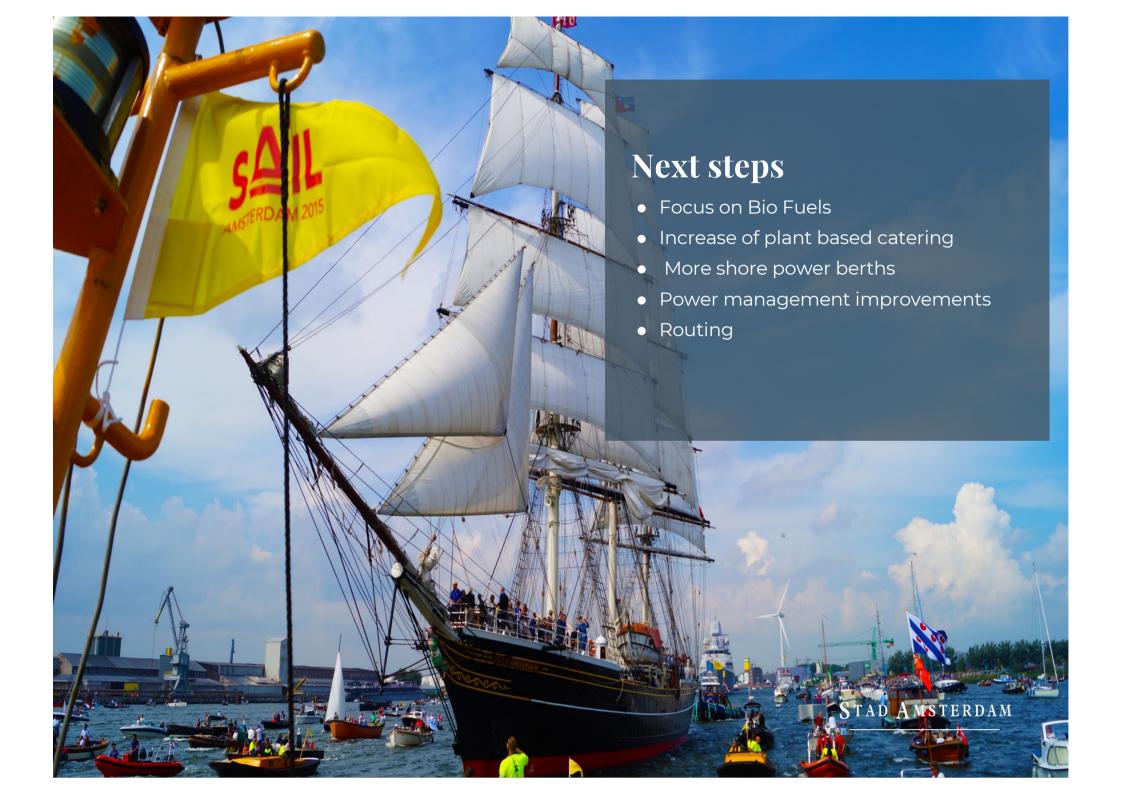
The delivery made by Baseblue is an HVO30 blend of fuel consisting of 10PPM gasoil mixed with HVO100. HVO, meaning Hydrotreated Vegetable Oil, represents a renewable diesel fuel produced from vegetable oils through an advanced hydrotreating

The operation's success between Baseblue and Stad Amsterdam highlights the flexibility and efficiency of both parties, affirming their joint commitment to ensuring ensure a smooth



Baseblue and Stad Amsterdam's renewable biodiesel bunkering delivery

STAD AMSTERDAM





#### 2023

AUG 18 | Netherlands | Amsterdam
AUG 23-30 | Belgium | Ostend

AUG 30 - SEP 15 | Netherlands | Rotterdam
SEP 17-28 | Germany | Hamburg
OCT 1-11 | United Kingdom | London
OCT 13-19 | Netherlands | Amsterdam
OCT 27 - DEC 6 | Portugal | Lisbon
DEC 10-13 | Canary Islands | Las Palmas
DEC 29-31 | Caribbean | Martinique

#### 2024

JAN 1-24 | Caribbean | St. Maarten
FEB 7-11 | Panama
MAR 6-23 | USA | San Francisco
APR 6-10 | Hawaii | Honolulu
MAY 5-31 | Japan | Yokohama/Kobe
JUN 3 - JUL 3 | China | Shanghai | Hong Kong
JUL 17-21 | Indonesia | Sorong
AUG 11 - 3 SEP | Australia | Sydney | Brisbane
SEP 24-28 | Indonesia | Denpasar
OCT 5 - NOV 9 | Singapore
NOV 21 - 24 DEC | India | Chennai | Mumbai

### 2025

JAN 5 - JAN 9 | Maldives/Male

JAN 18 - JAN 22 | Mauritius

FEB 21 - MAR 3 | South Africa | Cape Town

MAR 30 - APR 3 | Brazil | Recife

MAY 7-22 | Caribbean | Martinique | St.

Maarten

MAY 29 - JUN 9 | USA | Miami

JUN 15 - JUL 13 | USA | Baltimore | New York |

Boston

AUG 6-10 | France | Brest

AUG 16-24 | Netherlands | Amsterdam