

# STADT - GRUPPA



LEAN PROPULSION

STADT AS

STADT NAVAL AS

STADT GRUPPA  
Moljevegen 50  
N 6083 Gjerdsvika  
[www.stadt.no](http://www.stadt.no)

**STADT**  
LEAN PROPULSION

**STADT**  
NAVAL

**STADT**  
LEAN PROPULSION

**STEALTH ELECTRIC PROPULSION AND POWER SYSTEMS FOR THE ENTIRE FLEET**

- + SAFETY & RELIABILITY
- + VERY LONG LIFETIME
- + COST EFFICIENCY
- + STEALTH & HSE
- + LONGER ENDURANCE
- + LESS EMISSION AND FUEL

STADT NAVAL AS  
[WWW.STADT.NO](http://WWW.STADT.NO)

WWW.STADT.NO

# STADT - GRØN EKSPORT-ERFARING



- ETABLERT i 1985 utifrå ideen om å jobbe med BEREKRAFTIGE energiløysingar.
- Har patentert 5. generasjonar med AC DRIVE – teknologiar – er verdsleiande.
- LEAN PROPULSION<sup>®</sup> er i dag vårt hovedprodukt – Lean tankegang i alle ledd.
- ER I DAG EIN GLOBAL MARKNADSAKTØR innan elektrisk propulsjon.
- EKSPORTANDEL på 95 % - altså kun 5 % i NORGE
- LEVERT STADT – teknologien til 150 skip world wide
- STATSING PÅ MILITÆR MARKNAD I TILLEGG TIL DEN SIVILE

# EKSPORTEN HAR TRYGGGA VÅR FRAMTID



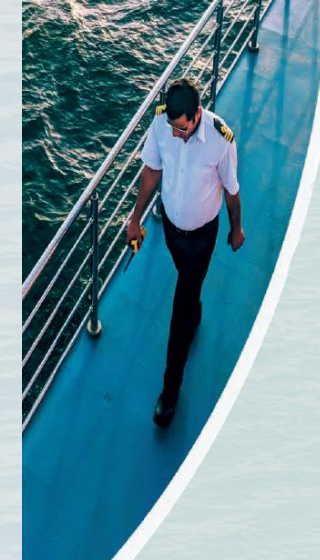
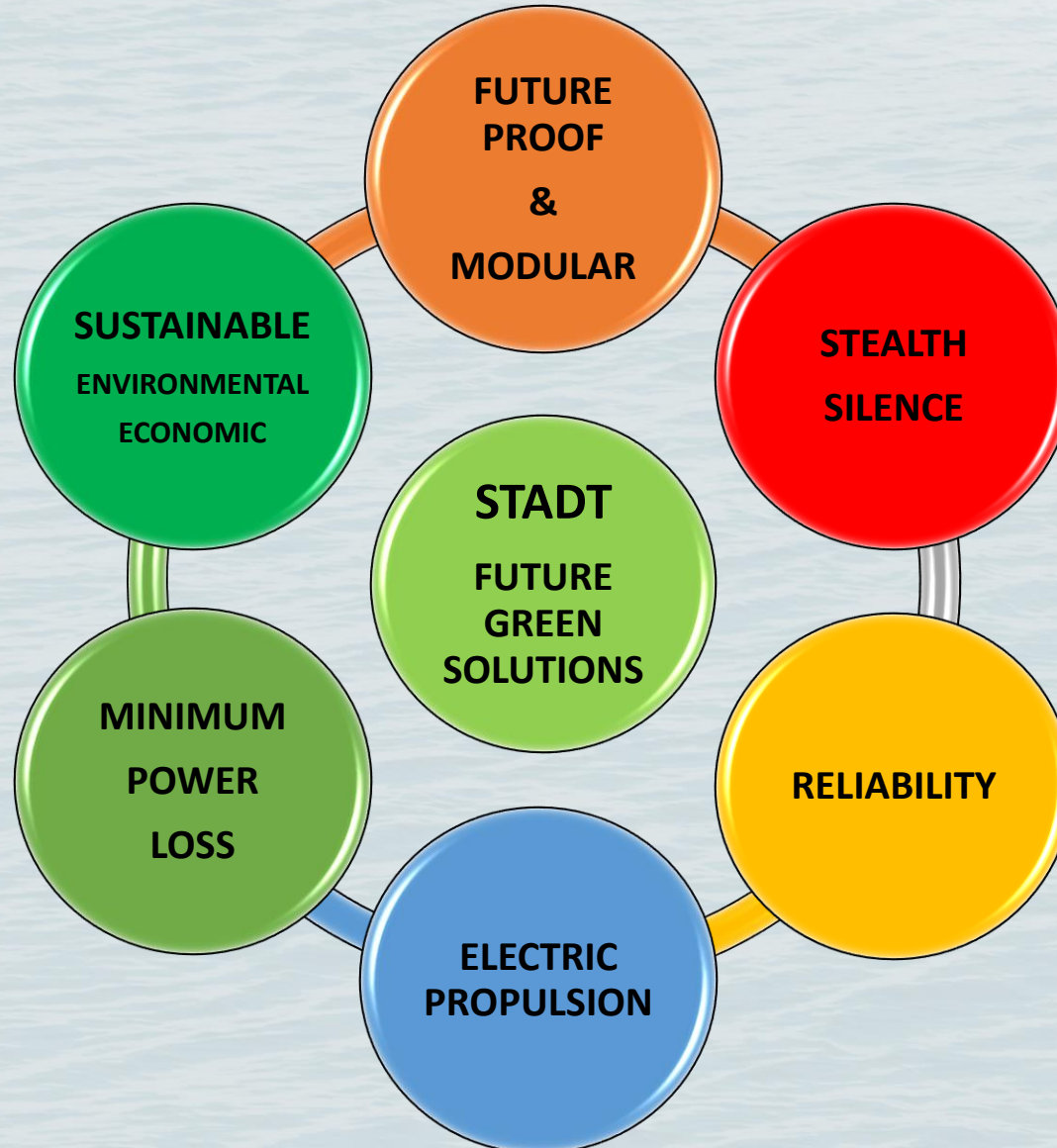
300 MNOK i omsetning siste 8 åra – solid inntjening og suksess.

150 MNOK i Balanse no for STADT GRUPPA .

\* VÅRE FORNØGDE KUNDAR KJEM TILBAKE OG VIL HA FLEIRE SKIP

\* GJENNOMBROT I NAVAL-MARKNADEN i 2021

# LEAN & GREEN SOLUTIONS



## BEST IN CLASS ELECTRIC PROPULSION

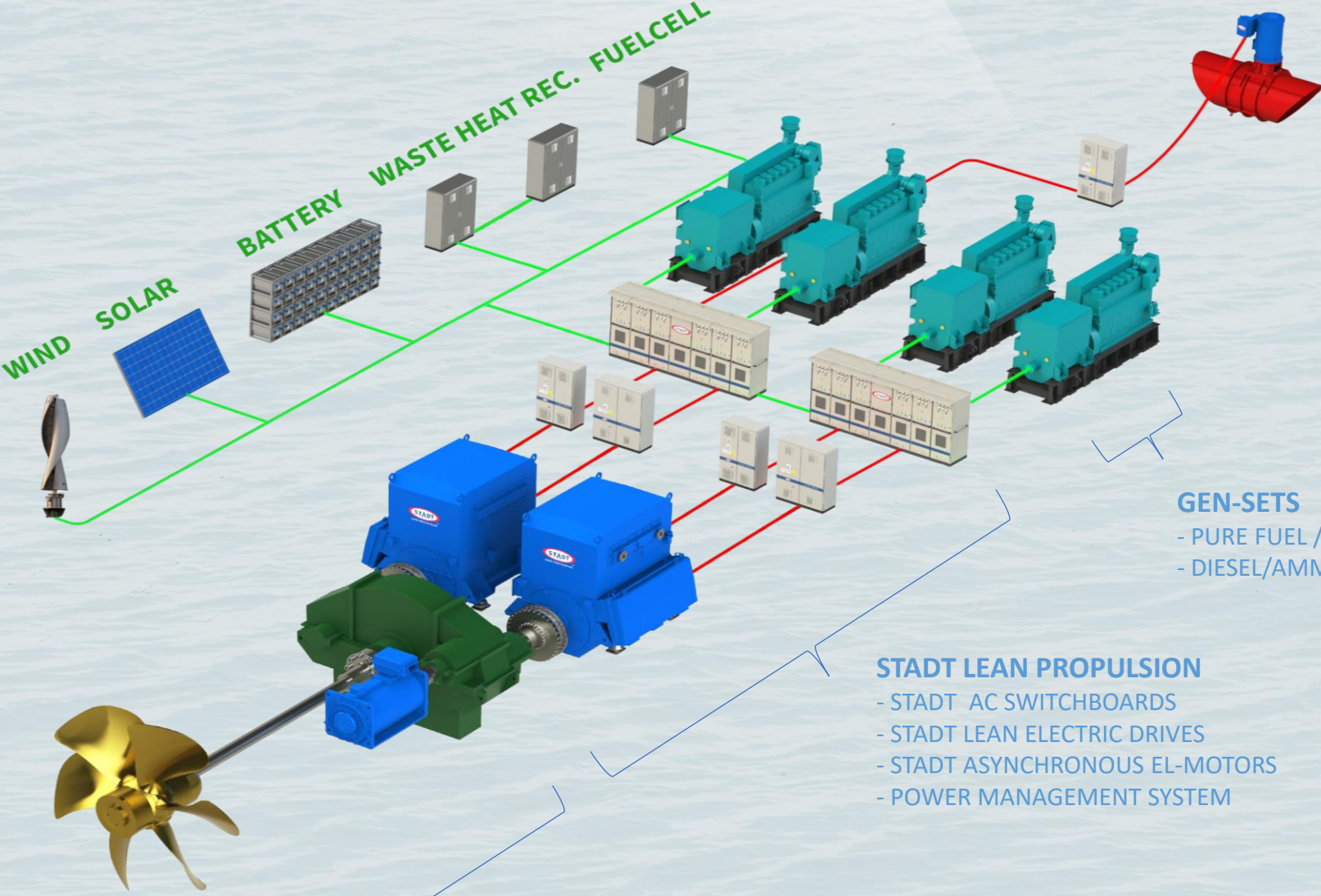
- ▲ **STEALTH SILENT** - no interference / acoustic noise
- ▲ **HIGH EFFICIENCY** - less than 0.1 % power loss
- ▲ **LOW WEIGHT** - more space for cargo
- ▲ **RELIABLE** - low maintenance cost
- ▲ Ready for **ZERO EMISSION** shipping

**INNOVATIVE PROPULSION FOR YOUR NEXT SHIP**

# LOW-TO ZERO EMISSION - ELECTRIC PROPULSION



LEAN PROPULSION



WIND SOLAR  
BATTERY  
WASTE HEAT REC. FUELCELL

**GEN-SETS**  
- PURE FUEL / DUEL FUEL  
- DIESEL/AMMONIA /H2/BIO

**STADT LEAN PROPULSION**  
- STADT AC SWITCHBOARDS  
- STADT LEAN ELECTRIC DRIVES  
- STADT ASYNCHRONOUS EL-MOTORS  
- POWER MANAGEMENT SYSTEM

**GEAR AND CP-PROPELLER**  
- SHAFTLINE / AZIMUTH



# STADT MARITIME SENTER



## STADT GLOBAL NETWORK

### STADT SERVICE POINTS:

STADT NORWAY, GJERDSVIKA  
 STADT ITALY, ROME  
 STADT SINGAPORE, SINGAPORE  
 STADT GERMANY, HAMBURG  
 STADT SPAIN, VIGO  
 STADT POLAND, GDYNIA  
 STADT TURKEY, TUZLA  
 STADT FINLAND & SWEDEN, MARIEHAMN  
 STADT BALTIC, KLAIPEDA  
 STADT UK, ABERDEEN  
 STADT MEDITERRANES, LIMASSOL  
 STADT NORTH AMERICA, MIAMI  
 STADT SOUTH AMERICA, RIO DE JANEIRO  
 STADT KOREA, BUSAN  
 STADT CHINA, SHANGHAI  
 STADT TAIWAN, KAOHSIUNG  
 STADT INDIA, MUMBAI  
 STADT AUSTRALIA, PERTH



### STADT OFFICES:

STADT NORWAY, GJERDSVIKA  
 STADT ITALY, ROME  
 STADT SINGAPORE, SINGAPORE



# FROM GREY TO GREEN NAVAL SHIPS



HALLVARD LIDSET SLETTEVOLL  
CEO STADT NAVAL AS





NAVAL

# STEALTH ELECTRIC PROPULSION AND POWER SYSTEMS FOR THE ENTIRE FLEET

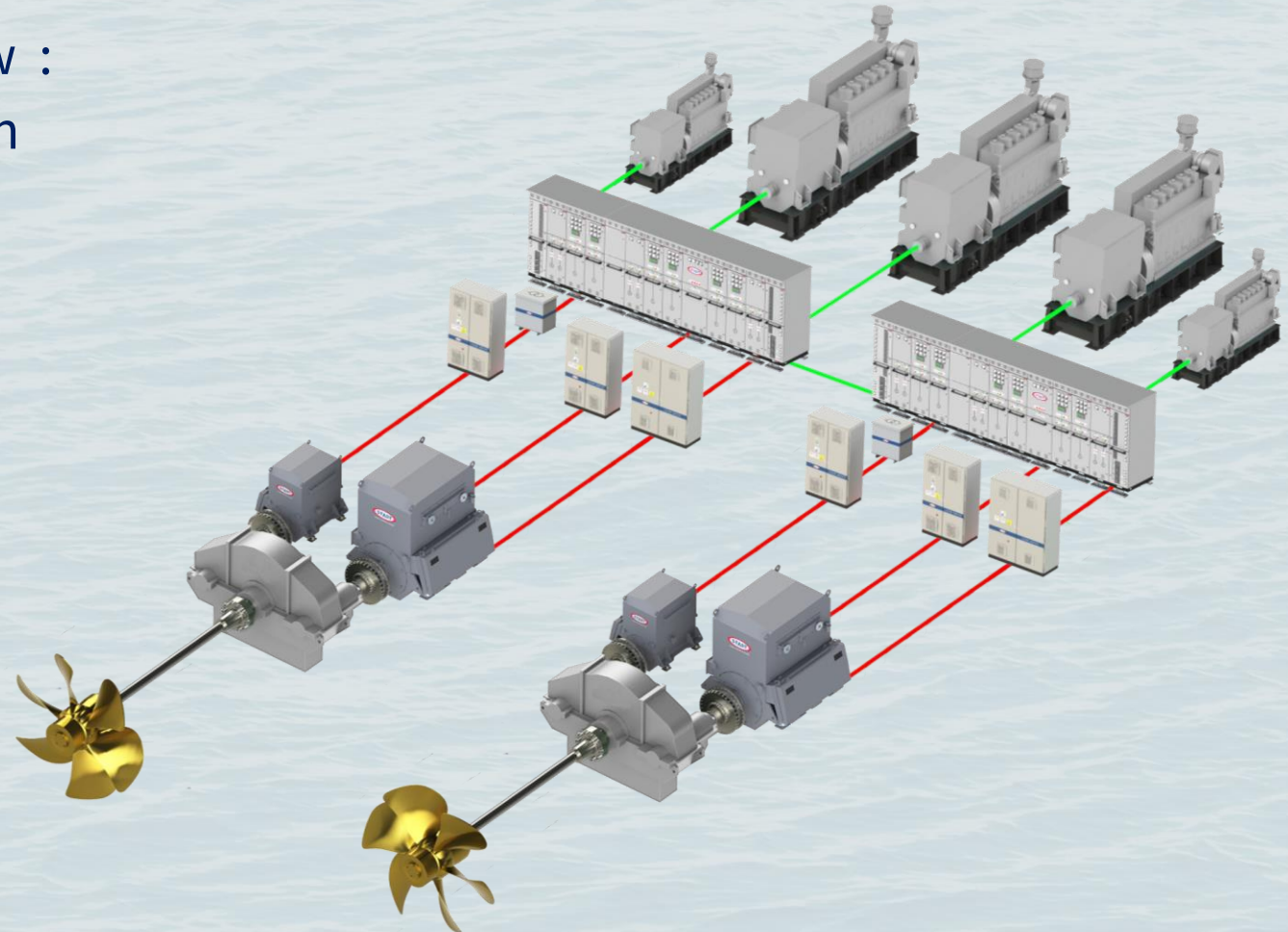


# STADT RESPONSIBILITIES in EPC

➤ System design - **preliminary and basic design** for **hybrid and electric propulsion**.

➤ Analysis and Basic design – holistic view :

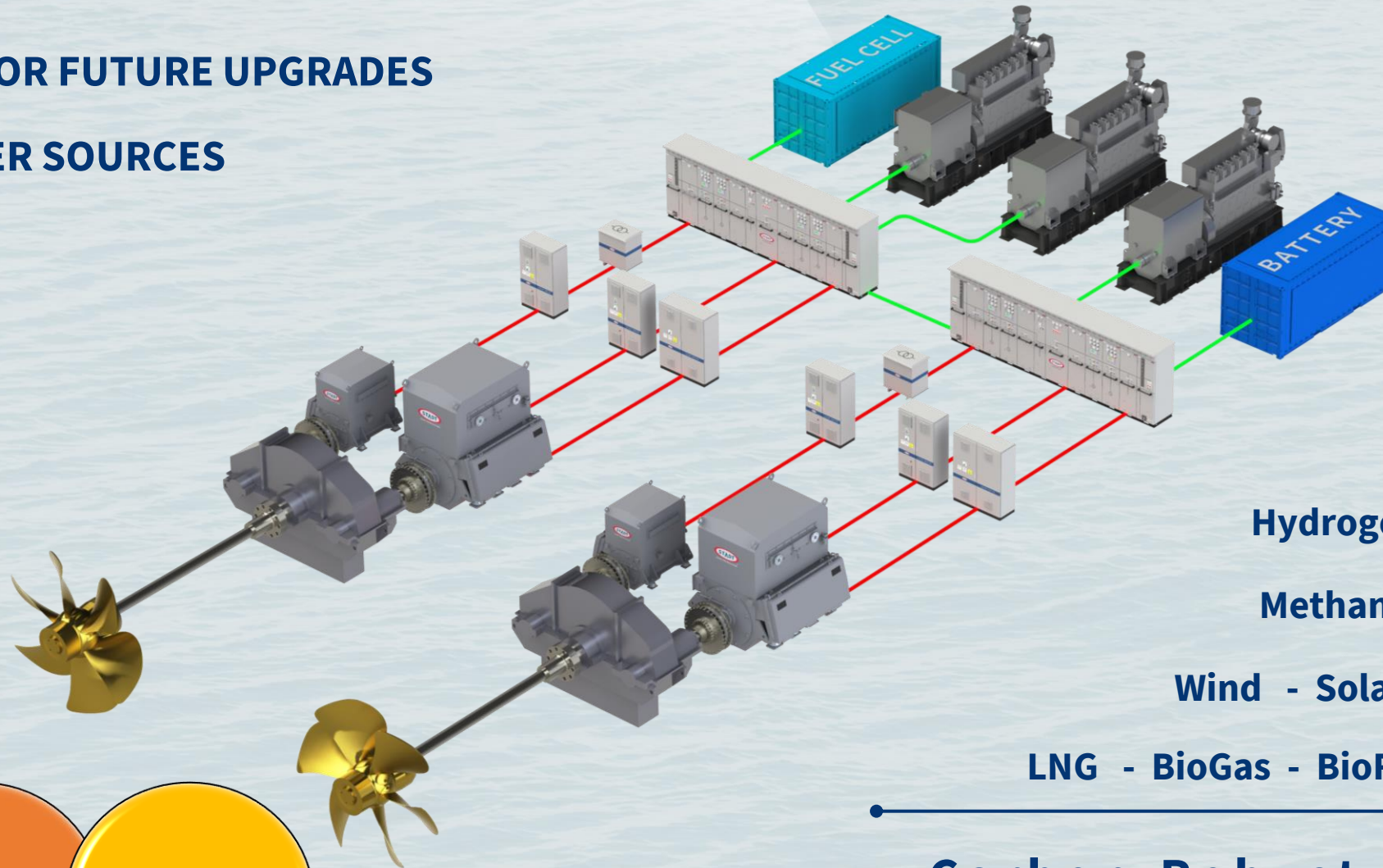
- Switchboards & Electric Distribution
- Electric drives
- Electric motors
- ESS/ Power Storage / Battery
- Geared propulsion solutions
- Power management system
  
- Analysis, Design and Speciation
- Interface definition
- Integration
- Modularisation



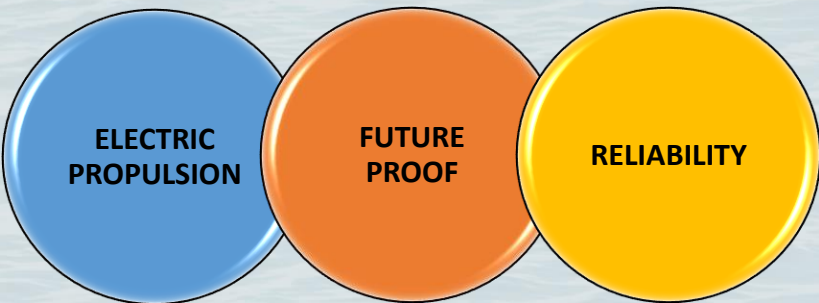
# A ROBUST ELECTRIC «BACK-BONE»



FLEXIBILITY FOR FUTURE UPGRADES  
TO NEW POWER SOURCES



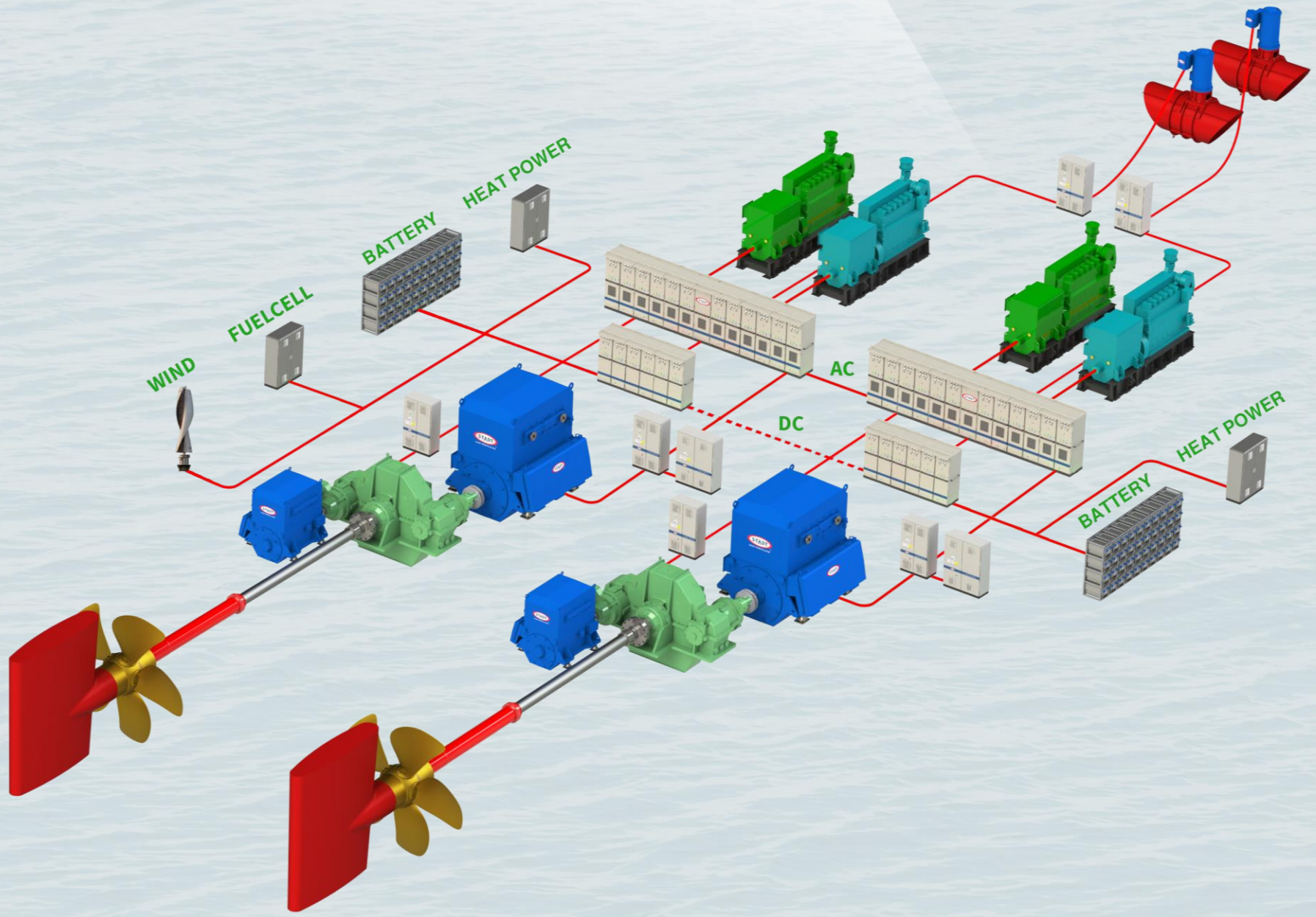
- Nuclear
- Hydrogen - Amonia
- Methanol - E-fuels
- Wind - Solar - Battery
- LNG - BioGas - BioFuel - Diesel



—————  
**Carbon-Robust Solutions**



LEAN PROPULSION



# FULL ELECTRIC WAR SHIP – MODULARIZATION



FUTURE  
PROOF  
&  
MODULAR





LEAN PROPULSION

The Cube<sup>™</sup>  
Certified



NAVAL  
AC+DC



# INGEN SUKSESS I NORGE ?



- Med nokre få unntak – NEI .

## EKSPORT HAR VÅRE VÅR HOVED-STRATEGI- 90 - 95 %

- ASIA med Singapore har vorte den viktigaste markaden for STADT . Sivil og militær.
- Militær eksport veks kraftig – er medlem i **FSI** – norske eksportbedrifter innan militært utstyr  
Elektrifisering er ein sterk driver – nye elektrobaserte våpen, miljøprofil etc

# KLYNGE-SAMARBEID PÅ SUNNMØRE ?



- DÅRLEG - ETTER VÅRE ERFARINGAR GJENNOM 37 år.
- INGEN FORPLIKTELSE TIL TETT SAMARBEID HER, HELLER KONKURRERE

\* \* \*

- DÅ MÅ VI VERE GLAD FOR AT VI HAR EIN INTERNASJONAL MARKNAD.





**NAVAL**



**SH DEFENCE**

