

# Sustainability: A new model for energy logistics

Januari 2021 Ruurd Zandstra

# Vessel sharing



## SNS Pool (2002)



9 operators



150 offshore locations



5 vessels for production support



32% savings per annum



27Mln kg CO2e savings per annum

## CNNS Pool (2017)



3 operators



4 offshore locations



1 vessels for production support



40% savings per annum



1Mln kg CO2e savings per annum

## Qatar (2020 Estimated)



7 operators



200 offshore locations



7 Vessels for production support



36Mln kg CO2e savings per annum



# Aviation pooling



Operating for more than 10 years



7 operators



7,000 hours of air time saved



3 million litres of fuel saved



8 million kg CO<sub>2</sub> reduction

Savings



~1350 Households.



Collaboration



Optimize deck space use

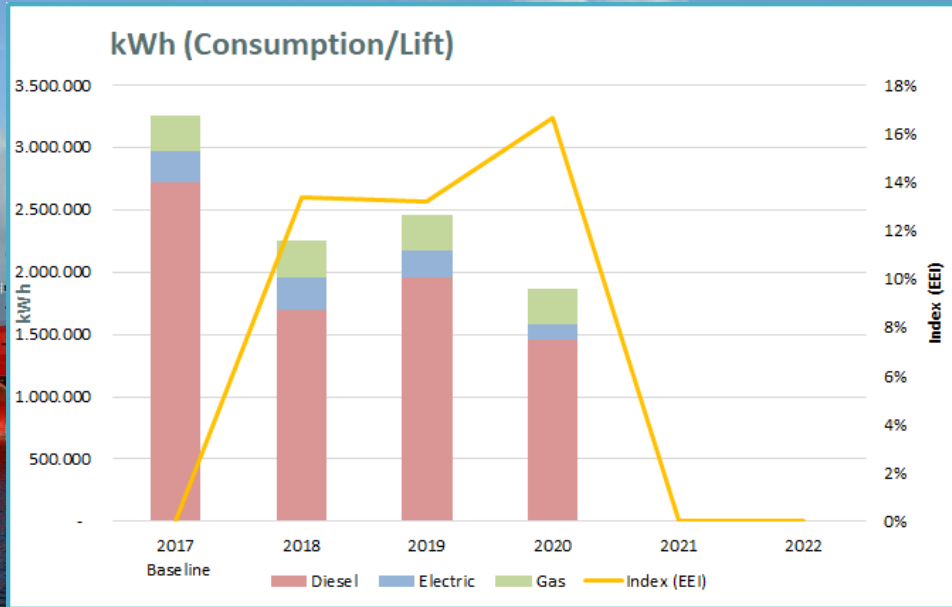


Optimized planning



Economical speed

17% Improvement on energy performance.



setting goals.

committing to them

planning to achieve these goals

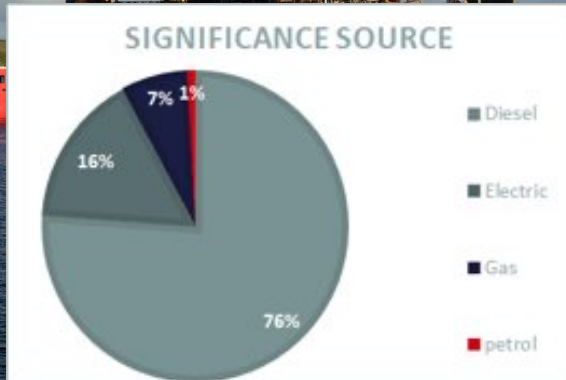
monitoring progress

Energy Audit

investigation deviations

Review of performance

# Improving the energy performance



## Energy saving actions.

Implementing LCA requirement when procuring energy using equipment.

Replacing old energy in efficient equipment with new.

Transfer from diesel to electric.

Fluorescent lighting to LED lighting.

Optimization of the quayside transit area.

Automatic overhead door in warehouses.

Preventative maintenance, improve climate controls, restrict climate controls.

# Future actions



Changing the energy source.

1. LNG (HP/LP)

2. Hydrogen (ICE/SOFC)

3. Ammonia

4. Batteries/Hybrid



**GLOBAL**<sup>®</sup>  
SUSTAINABLE  
ENTERPRISE SYSTEM

TRUST WELL PLACED

