

FUTURE FUNNEL

The Pathways to Decarbonization





www.teco2030.no



Headquarter - Oslo

- Lysaker Torg 12,1366 Lysaker, Norway
- +47 67 200 300

Miami Office

- 3801 SW 47th Avenue #503,
 33314 Davie, Florida, USA
- +1(305)8336510

Singapore Office

- 8 Boon Lay Way, #07-01
 Tradehub 21, Singapore 609964
- **L** +65 9634 <u>1744</u>





Sulphur Oxide (SOx) reduction



Particulate Matter (PM) and Black Carbon (BC) reduction

FUTURE GEN 0

De-S0x System available today (IMO 2020 Global Sulphur Cap).

FUTURE GEN 2

Remove Particulate Matter and Black Carbon for expected rules in 2023.

Additional ULEV and LEV class Notations.

2020

2021

2023

2024

FUTURE GEN 1

TIER III NOx compliance.

NOx Tier III standards are in effect since January 1st 2016 to North American and Carribean ECA and since 1st January 2021 to Baltic and North Sea.

Nitrogen Oxide (NOx) reduction

FUTURE GEN 3

GENS

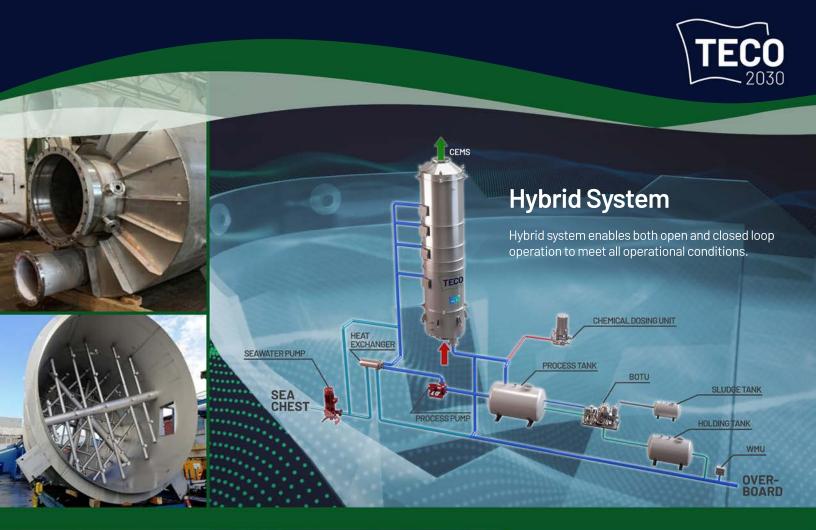
Integrated Carbon Capture and Storage System, IMO 2030 goal.

All ships above 400GT require to develop and approve **EEXI** and decarb plan by Jan 2023.

Cargo and cruise ships above 5000GT require to achieve **CII** rating C or better from 2023.



Carbon Dioxide (CO_2) reduction



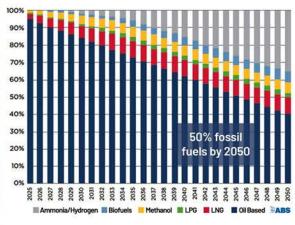


Even under current plans,

50%

of all vessels will be powered by fossil fuel engines in

2050







Complies with both 0.1% and 0.5% Sulphur emission regulations.



High SOx removal efficiency up to 99.9%.



High quality, simple design and produced to the highest standards.



Full turnkey solution; 3D scanning, engineering and prefabrication, installation



Adaptable for future emission legislations.



Able to run dry.



Low maintenance and easy operation.

and commissioning.



Optimized design through advanced simulation.



Possible to install during voyages, only quick dock is needed for underwater work.



Open loop, hybrid or hybrid ready.



Customizable design to all ships and all engine types.



Low CAPEX and OPEX.





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