

# CARBON CAPTURE & STORAGE

The Pathway to Decarbonization



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## APPROVAL IN PRINCIPLE FOR MARITIME

- Proof of concept verification from Class

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## PILOT INSTALLATION ONBOARD SHIP

- Scalable Size
- Prove the technology for maritime environment

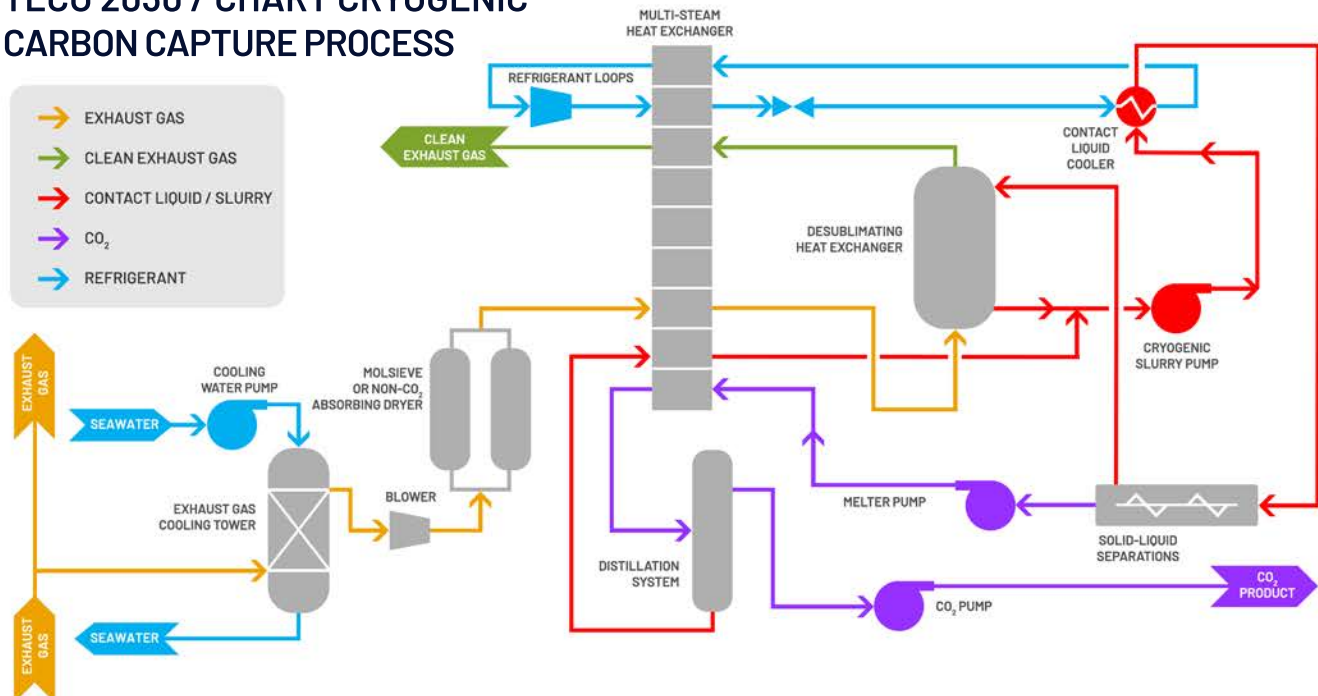
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## IMO GHG 2030 READY

- Optimise to comply 2030 IMO goals and beyond
- Modular design

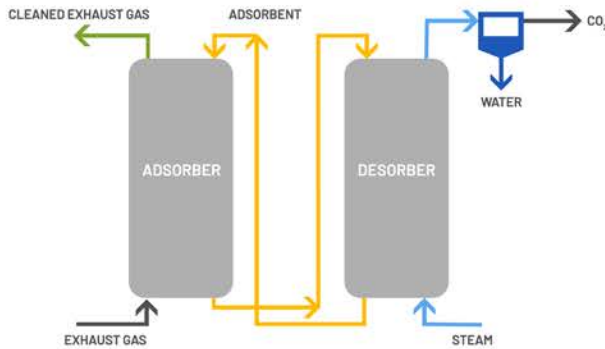


## TECO 2030 / CHART CRYOGENIC CARBON CAPTURE PROCESS





## ADSORPTION CARBON CAPTURE PROCESS



## Environmental Benefits

The effect of global warming in our environment is significant. The largest greenhouse gas (GHG) contributor is Carbon Dioxide (CO<sub>2</sub>). Maritime transport emits around 940 million tonnes of carbon dioxide (CO<sub>2</sub>) annually and is responsible for about 2.5% of global greenhouse gas (GHG) emissions (IMO, 2014).

Due to the threat of climate change also the demand for maritime CO<sub>2</sub> emission reduction has strongly increased. This is backed by the International Maritime Organisation (IMO) who came up with the ambitious goal to reduce CO<sub>2</sub> from shipping by 40% by 2030 and 70% by 2050 per transport work (IMO, 2018).

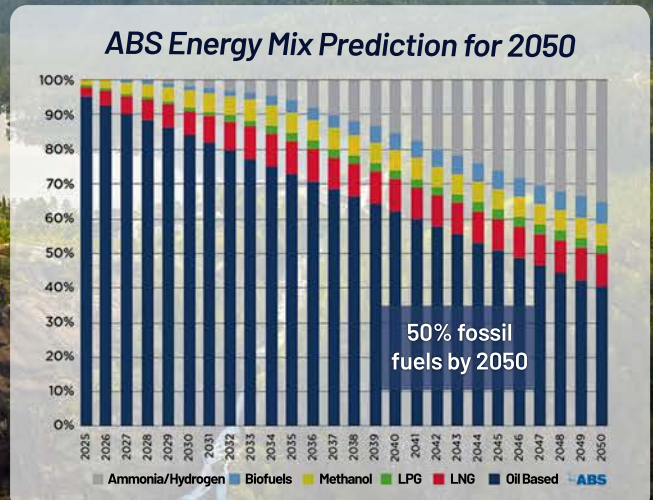
Carbon Capture and Storage has been gaining recognition as an important technology towards decarbonizing shipping (DNV 2050 Maritime forecast).



**AFTER TREATMENT  
MEASURE**

**Carbon Capture  
and Storage**

**>30%**





# WHY TECO2030 CARBON CAPTURE & STORAGE ?



**Proven** for several land-based applications.



**Tested** for a broad variety of fuels and CO<sub>2</sub> concentrations.



**Tolerate** impurities into the exhaust.



**Applicable** both for retrofit and newbuilds.



**Scalable & modular** design.



**High** CO<sub>2</sub> capture rate.



**Low power** demand.



**Optimal** heat recovery.



**Does not require** hazardous chemicals.