



**TGE**  
**MARINE**

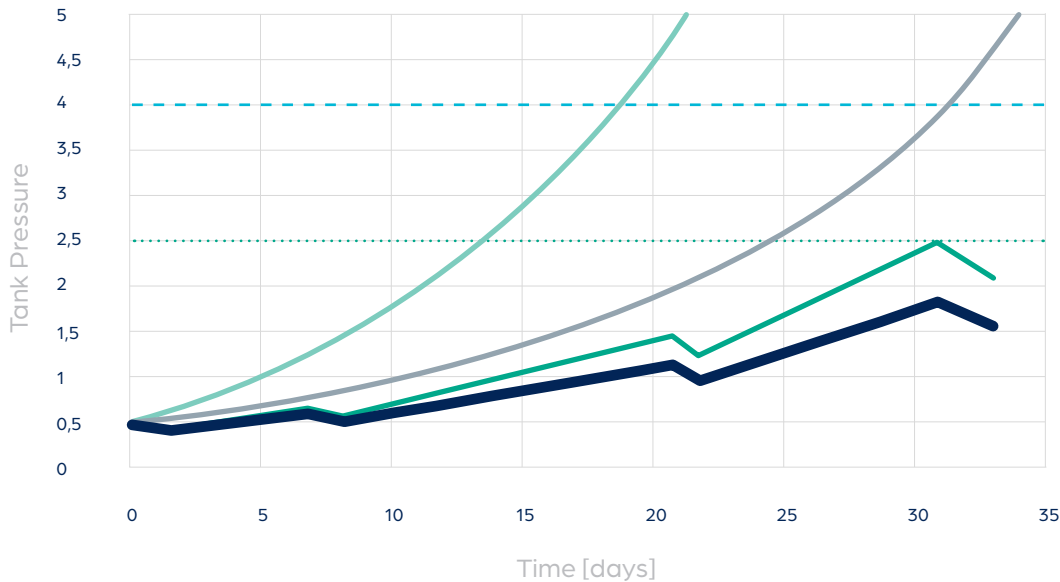
## **RECONOMISER™**

For high pressure MAN ME-GI engines

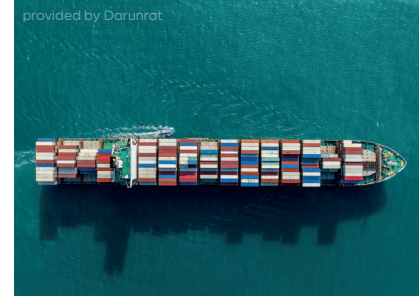
Efficient and powerful Boil-Off-Gas (BOG) treatment system

**Reduction of Green-House-Gas (GHG) emissions**

# Ship Voyage Study



provided by Darunrat



- Maximum Allowable Relief Valve Settings (MARVS)
- ..... recommended max. operating pressure
- Hotelload via Power-take-off (PTO)
- Hotelload via Auxiliary Engine (A/E)
- Operation Profil without PTO and without Reconomiser
- TGE Marine RECONOMISER / PTO Setting

**Extraordinary benefit in combination with type C tanks – pressure accumulation**

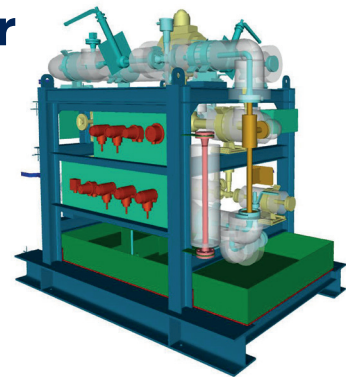


## TGE Marine services:

- Consultancy for defining BOG treatment solution considering ship operational requirements
- Execution of ship voyage studies
- Design and supply of BOG treatment system as part of the fuel gas supply system

For further information please email:  
[sales@tge-marine.com](mailto:sales@tge-marine.com)

## Particular features:



- Robust advanced control concept
- Ensuring reliable operation of high pressure pumps
- Reliable operation during rough sea conditions
- High BOG treatment performance
- Increasing operator safety due to decreased spillage quantity in the event of a leak

# Benefits:

## Low Capital Expenditure Costs (CAPEX) and Operational Expenditure Costs (OPEX) by:

- Allows the application of shaft generators with Power-take-off (PTO) as well as cold ironing
- Supports the application of batteries, solar panel etc.
- Elimination/significant reduction of genset operation at sea and port
- Reduction of fuel gas consumption and Green-House-Gas emissions
- Significant reduction of operational cost

## Example

Case Study: Potential savings with a MAN ME-GI/ RECONOMISER/PTO set-up within 5-years

## OPEX

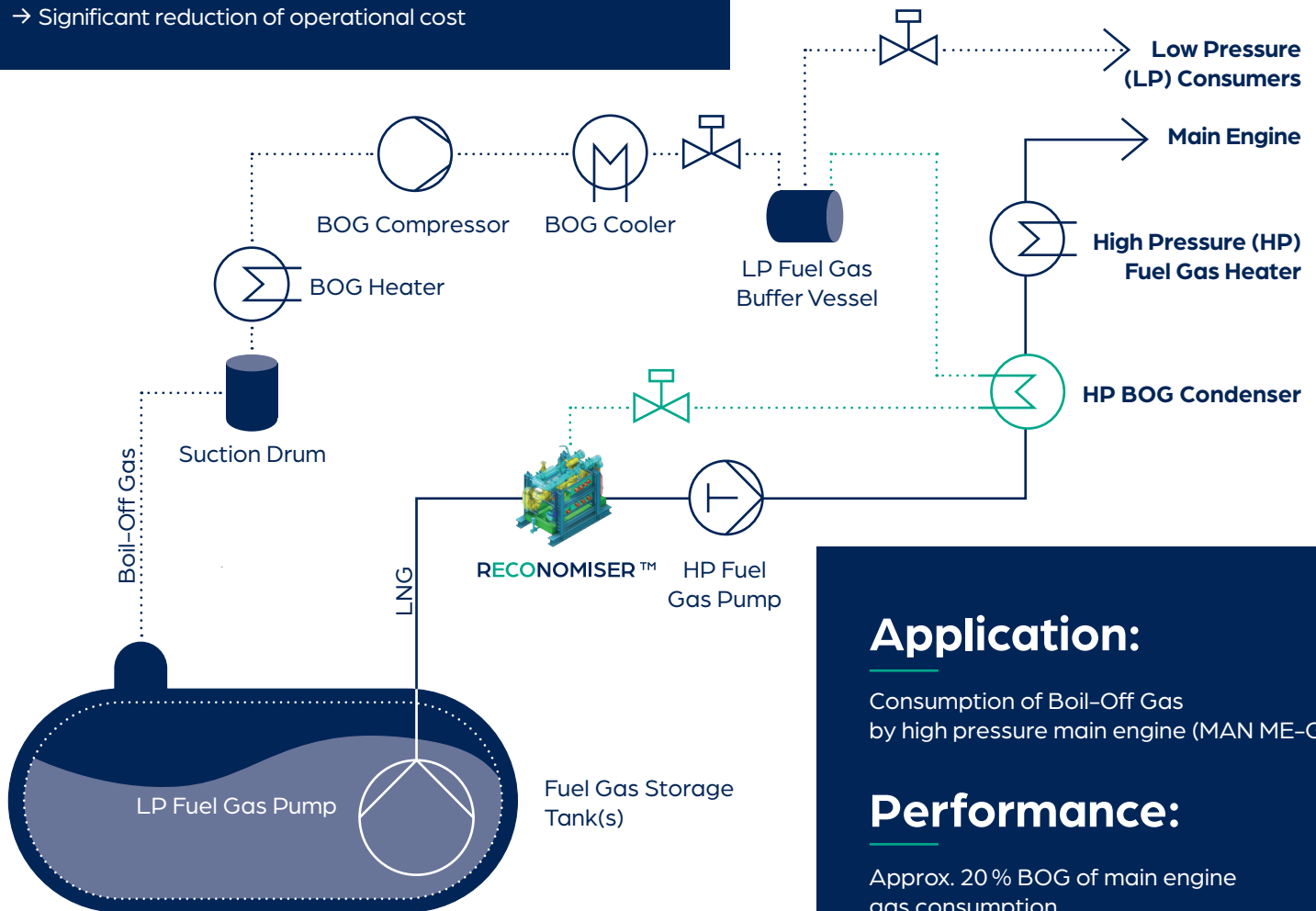
Fuel cost:	about 2.5 million US\$
Maintenance cost A/Es:	about 1.0 million US\$
Total savings:	about 3.5 million US\$

## EMISSIONS

Methane Slip:	about 100 t
CO <sub>2</sub> eq. emissions:	about 9,000 t

Investment cost savings versus an HP fuel gas compressor:

**RECONOMISER™ application has 20% less in CAPEX**





## Headquarters

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