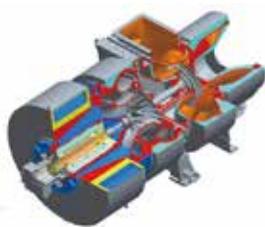
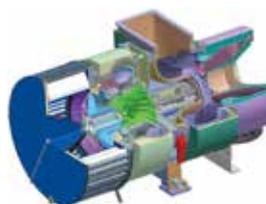




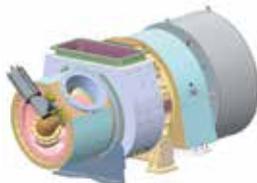
<https://www.mhi-mme.com/>



**Hybrid Turbochargers**  
The compact hybrid turbocharger has a built-in power generator so that it not only supplies super-charged air to the engine but also uses rotational energy to generate electrical power at the same time. It contributes to the improvement of fuel efficiency by supplying all electrical power necessary while at sea.



**Electric Assist Turbochargers**  
The electric assist turbocharger is a turbocharger that incorporates a compact electric motor that assists the driving of the turbocharger. This provides optimization of plant efficiency when a ship is operating under slow steaming, enabling equal or better performance than an auxiliary blower while consuming little power.



**VTI (Variable Turbine Inlet) Turbochargers**  
By adjusting the turbine nozzle's inlet area through which exhaust gas passes, the VTI turbocharger increases scavenging air pressure under low loads, thereby improving the performance of the main engine. It can be retrofitted to improve fuel-efficiency of ships in service.

**INQUIRIES**

**Business Development Division**  
16-5, Konan 2-Chome, Minato-ku, Tokyo, 108-0075, Japan  
Tel : +81-3-6716-5330 Fax : +81-3-6716-5325  
E-mail : info\_meet@mhi-mme.com



<https://www.mhi-mme.com/>

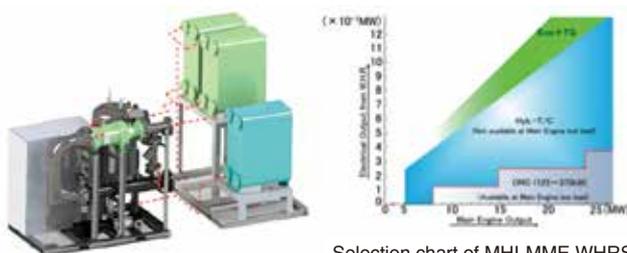
**STG (Super Turbo Generating) system**



**STG (Super Turbo Generating) system**  
WHRS is a marine waste heat recovery system that carries out highly efficient power generation onboard ships through effective utilization of energy harnessed from the marine engines' exhaust gas. Exhaust gas energy is effectively recovered through the optimal control of the combination of exhaust gas and steam turbines lowering a ship's fuel costs.

**ORC (Organic Ranking Cycle) system**

**ORC (Organic Ranking Cycle) system**  
Presently, engine cooling water below 100°C was dumped into the ocean. ORC is compact power generation systems that enable electrical power recovery and power generation using a heat transfer medium with a boiling point lower than that of water, like those used in air conditioners.



Available heat source  
125kW...Jacket cooling water with 85°C  
375kW...High energy source with Main Engine exhaust gas and or Air Cooler are also utilized to the ORC.

**INQUIRIES**

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Tel : +81-3-6716-5330 E-mail : info\_meet@mhi-mme.com