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GAS Entec's Reference

Project	Client	Scope*)
50 MMSCFD Floating Regas Unit	JSK, Indonesia	E/P/C
2,200 M ³ Bunkering Barge	Conrad, USA	E/P
26,000 M³ Floating Storage & Regas Unit	JSK, Indonesia	E/P
21 MMSCFD Regas Module	Karpowership, Turkey	E/P/C
125 K LNGC Conversion to FSRU	KALMOL, Turkey/Japan	E/P
2,700 M³ Bunkering Ship	JMU, Japan	E/P
32,000 M³ LNG Feeder	GTT, USA	Е
FGSS for 37.5 K Bulk Carrier	GTT, USA	Е
85 MMSCFD Regas Unit	Woodside Energy, Australia	Е
83,000 M³ FSRU	BMT, Singapore	Е

*) E: Engineering, P: Procurement, C: Construction



50MMSCFD FRU



26,000M3 FSRU



Regas Module for 125K FSRU Conversion

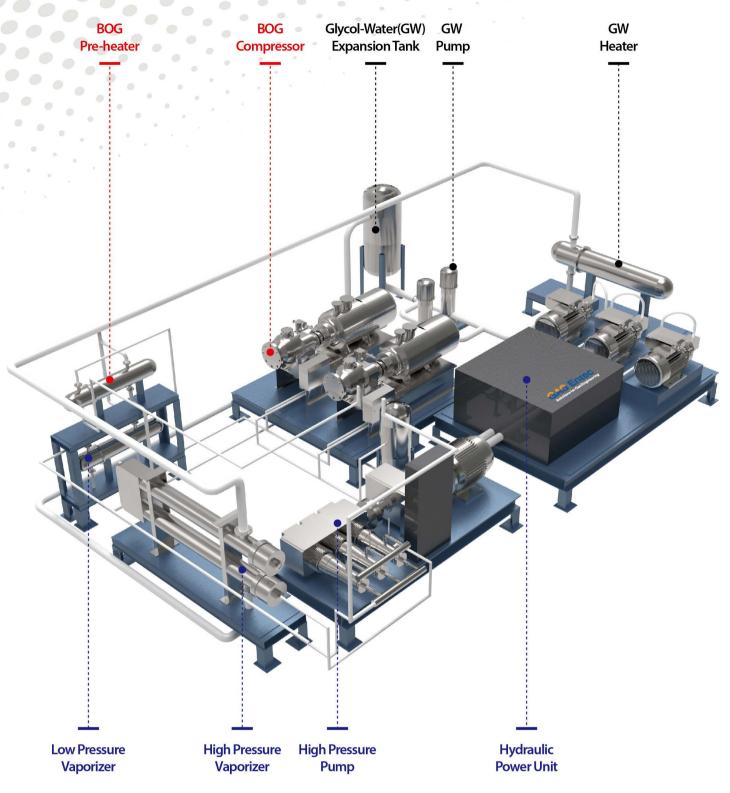


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LNG Fuel Gas Supply System



Fuel Gas Supply System Skid Model



^{*)} This FGSS Skid is designed for ME-GI Dual Fuel Engines.

Clean LNG

Emission Gas	IMO Regulation	LNG	VLSFO
SOx	0.5% sulphur content - global	Meet	Meet
Emission Gas	EEDI (Energy Efficiency Design Index)	Meet	Not meet
Emission Gas	EEDI (Energy Efficiency Design Index)	Meet *1)	Not meet
Emission Gas	EEDI (Energy Efficiency Design Index)	Less	More

^{*1)} Low pressure fuel gas engine

Engineering

• GAS Entec provides design engineering service as follows;

Dicipline	Design Development	Remark		
	Before shipbuilding contract			
	BOG management calculation			
	Capacity calculation			
LNG	Building spec for FGSS			
&	Process flow diagram			
Fuel Gas	General arrangement including LNG tank			
	Hazardous area plan			
	Steam heat balance			
	Machinery arrangement in E/R	Option		
Electric	Fuel gas pipe arrangement in E/R	Option		
	Electric load analysis			
	After shipbuilding contract			
1316	P & ID			
LNG	Piping practice			
& Fuel Gas	Arrangement of LNG & fuel gas piping			
ruei Gas	Production drawing	Option		
	Wiring diagram			
Electric	Control & alarm system			
	Cable layout plan			

Procurement

GAS Entec supplies equipment and material as follows;

Equipment & Material	Remark
All equipment for FGSS	
Valves and instruments	
Stainless steel pipe spool with insulation	Option
All electric and control equipment for FGSS	

Test & Trial

GAS Entec provides test and trial as follows;







