

PORTFOLIO OF MARINE & OFFSHORE SOLUTION

Growing into the world's best company



GLOBAL LEADER IN MARINE & OFFSHORE SOLUTION WORLD'S BEST

S&SYS has been established as a spin off the Machinery & Electric system team of the Samsung Heavy Industries in 2017. Based on technologies and knowhow accumulated over 25 years in the shipbuilding and marine field, we have developed key equipment such as Ballast Water Management System(BWMS), Ship Automation System, Switchboard, Energy Storage System(ESS) and Fuel Gas Supply System(FGSS) for LNG/LPG fueled ships to clients all over the world.

In the future, S&SYS is expanding it's scope to Eco-friendly product business as well as Ballast Water Management System(BWMS), Ship Automation, Switchboard and plans to continuously provide more differentiated quality.



Technological knowhow
accumulated over **25 years**
from Samsung Heavy Industries



With diverse clients in
40 countries worldwide



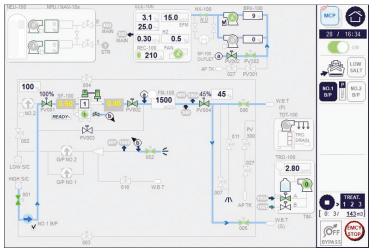
We have provided optimum
solutions to over **310 clients.**

Marine Solution Package

Eco Solution

BWMS (Ballast Water Management System)

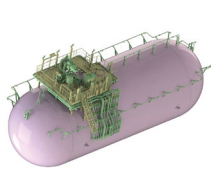
During ballasting, the ballast water management process is performed by Purimar™ comprises two main units operation: the mechanical separation and disinfection. During de-ballasting, a neutralization unit decrease the total residual oxidants(TRO) concentration.



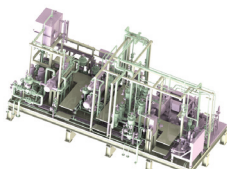
- Space-saving design
- Non toxic by-products
- Anti-corrosion & Coating protection
- Cost saving

Fuel Gas Supply System (PURIGAS™-FGSS)

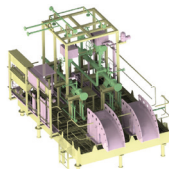
S&SYS had developed PURIGAS™ that is the package solution for all type of FGSS, and got AIP(Approval In Principle) for PURIGAS™ from LR. S&SYS can supply not only ME-GI FGSS, but also X-DF or DFDE FGSS, depends on the type of engine.



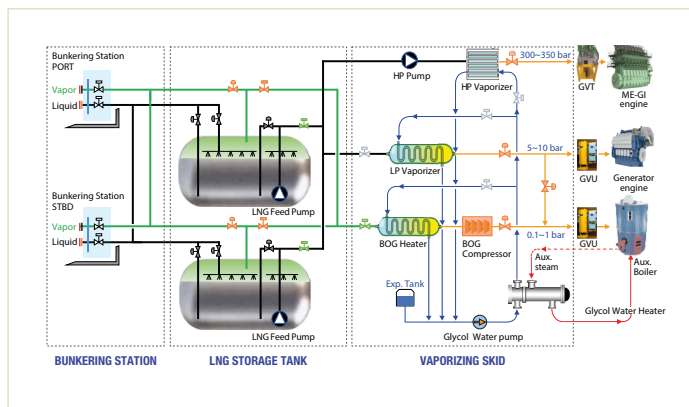
LNG TANK



FGSS SKID



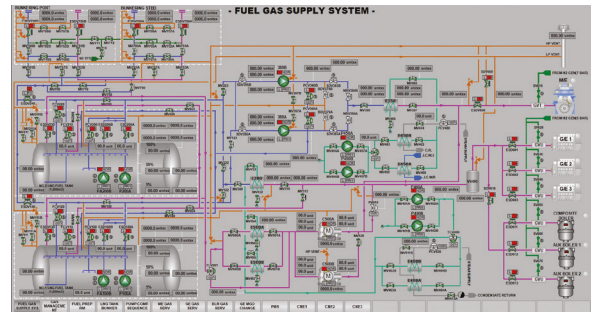
BUNKERING STATION



Flow Diagram for ME-GI engine

Gas Control (FGSS, LFSS, Regasification and Reliquefaction)

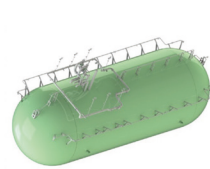
Based on plenty of experience for control system, SSAS-Master supplies robust and verified FGSS, LFSS, Regasification and Reliquefaction control performance with reasonable price. SSAS-Master can cover the control function for the high and low pressure FGSS with or without compressor solution. In addition, since experienced for both Direct type and In-direct type regasification control system, SSAS-Master is suitable for any kind of FGSS, LFSS, Regasification and Reliquefaction System.



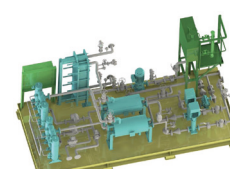
Control MIMIC for Fuel Gas Supply System

Low-flashpoint Fuel Supply System (PURIGAS™-LFSS)

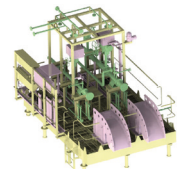
PURIGAS™-LFSS(Low-flashpoint Fuel Supply System) has been developed from the accumulated technology for METHANOL related equipment and engineering capability of S&SYS. Based on S&SYS's proven technology and know-how, PURIGAS™-LFSS will provide the most economical solution and the most reliable package system to our valuable customer with low CAPEX & OPEX in ME-LGIM engine.



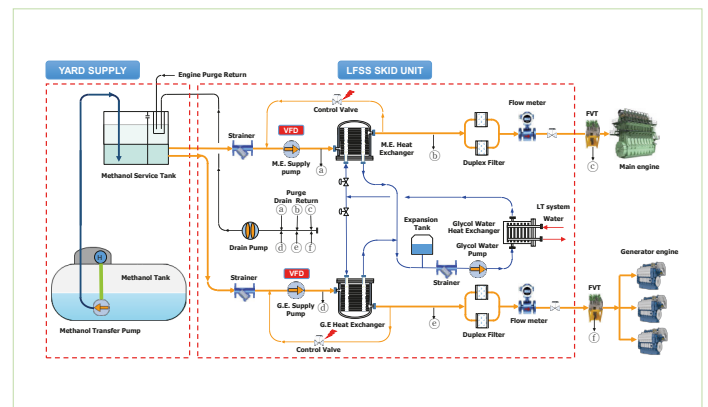
METHANOL TANK



LFSS SKID



BUNKERING STATION



Flow Diagram for ME-LGIM engine

Automation Solution

SSAS-Master (IAS/ICMS/AMS)

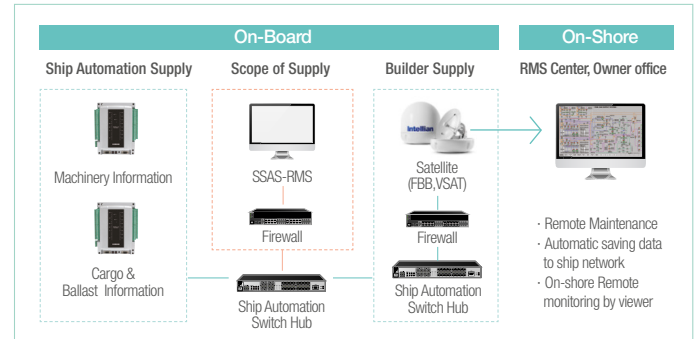
SSAS-Master meets the customer's needs with reliable, powerful and proven system performance, efficient operation and easy maintenance. SSAS-Master is so innovatively designed with redundant system from the high-level workstation to the low-level I/O Cards that has no trouble with monitoring and controlling any tiny disorder occurring. It is absolutely adjusted to all commercial vessels, especially dual fueled(LNG, LPG, Methanol etc.) vessels and LNG Carriers.



- Distributed control system with high reliability
- Quality approved system over 2,000 references in marine project
- Variable solutions with AMS, ICMS, IAS for all type vessels
- Remote monitoring and maintenance (Optional)
- Advanced technology for Gas Control (LNGC, FSRU, FGSS)

SSAS-RMS

SSAS-RMS is vessels remote monitoring & maintenance system from shore in real time including data transfer to shore. This system provide big data and owner can use the data in various ways for improvement of vessel's management. And remote maintenance function offer to owner qualified service without time loss for service engineer's embark.



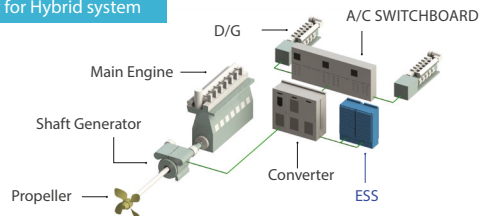
- Remotely check onboard system
- Update SSAS-Master software(program, graphic, tags, logic files)
- On-shore remote monitoring and data transfer to shore

Power Solution

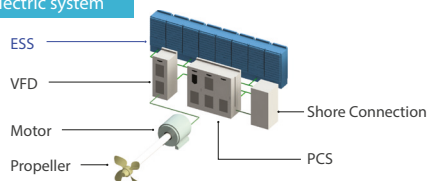
ESS (Energy Storage System)

Energy storage system is the solution that helps to use energy stored in Lithium-ion battery in the most efficient situation. Pure electric ships, 100% purely powered by the energy of ESS, allow the power of the charged ESS to be used as a main force in the motors that rotate the propellers. Hybrid electric ships using a part of energy from ESS, since it can use charged energy in ESS when ship reaches peak load, then the capacity of diesel generator sets can be decreased. and it leads to the fuel oil consumption savings and less maintenance costs.

Concept for Hybrid system



Concept for Pure electric system



High Voltage Switchboard

High voltage switchboard is specially designed and manufactured to meet the environmental, safety condition for the marine & offshore, and satisfied variable requirement of ship-owner.

- Optimized dimension (w:600mm)
- IR window · Dual layer · Top entry



- Achieved full type approval · Independently arc-fault tested
- Tested in accordance with IEC Pub. 62271-200
- Metal clad construction (LSC2B and PM)

Low Voltage Switchboard

Low voltage switchboard(SSLV) has been supplying a full range of Low Voltage Switchboards for the marine electrical system with the advanced technology and experience. This Low voltage switchboard is specially developed for the marine applications. Besides providing enough working space, the compact design of this switchboard saves the installation space.



- Totally-enclosed, dead front, floor standing multi-cubicle type
- Compact lo voltage switchboard for power distribution
- Tested in accordance with IEC Pub. 61439 · World wide quality marine service

Offshore Solution Package

FPSO

Automation

ICSS / ESD / F&G / PMS

Power System

High Voltage (up to 17.5kV) Switchboard

Low Voltage (up to 690V) Switchboard



Semi-Rig

Automation

ICSS / ESD / F&G / PMS

Power System

High Voltage (up to 17.5kV) Switchboard

Low Voltage (up to 690V) Switchboard



Drillship

Automation

IAS / ESD / F&G / PMS

Power System

High Voltage (up to 17.5kV) Switchboard

Low Voltage (up to 690V) Switchboard

Ballast Water Management System



Ro-PAX & Cruise

Automation

IAS / ESD / F&G / PMS

Power System

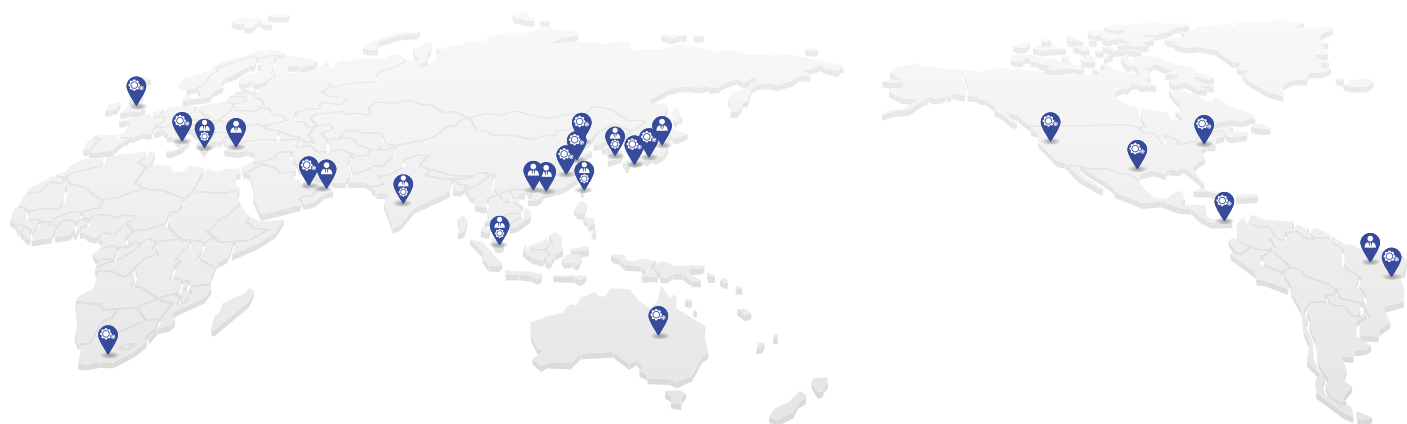
High Voltage (up to 17.5kV) Switchboard

Low Voltage (up to 690V) Switchboard

Ballast Water Management System



Global Network



 A/S Network  Sales Agency

ASIA					
KOREA	S&SYS Co.,Ltd. (HQ)	JAPAN	JRCS Co.,Ltd.	USA	MarineBCTec(LA)
KOREA	STK Engineering Co.,Ltd.	JAPAN	 Tsuneishi Trading Co.,Ltd.	USA	MarineBCTec(NJ)
KOREA	JEWON Engineering Co.,Ltd.	JAPAN	 UNI:ON Co.,Ltd.	USA	MarineBCTec(Houston, TX)
KOREA	STA	SINGAPORE	CWH Engineering	OCEANIA	
KOREA	UNI:ON Co.,Ltd.	SINGAPORE	Urecon Automation Pte. Ltd.	Australia	UNI:ON Co.,Ltd.
CHINA	Seven Seas Electronic Co.,Ltd.(Shanghai)	SINGAPORE	Seven seas automation&navcom Pte. Ltd.	SOUTH AMERICA	
CHINA	Seven Seas Electronic Co.,Ltd.(Qingdao)	SINGAPORE	 Mitsui & Co (Asia Pacific)	BRAZIL	METALOCK Brazil Ltd.
CHINA	Seven Seas Electronic Co.,Ltd.(Dalian)	TAIWAN	 YL Maritime Co.,Ltd.	BRAZIL	 DZETA Serviços Empresariais Eireli
CHINA	SAMSUN Marine Technology(HK) Co.,Ltd.	TAIWAN	Reson Electronics Int'l Inc.	EUROPE	
CHINA	 Health Lead Development Co.,Ltd.	THAILAND	A&Marine Co.,Ltd.	U.K.	MJR Controls Ltd.
CHINA	 SJ Engineering Co.,Ltd	CENTRAL AMERICA		ITALY	MASTER CONTROLS
INDIA	 Indostan Corporation	MIDDLE EAST		GREECE	 D.C.S.I Ltd.
INDIA	Navicom technology	U.A.E	MARITRONICS	GREECE	INFOMARINE
JAPAN	 Orient Marine Co.,Ltd.	U.A.E	Elcome International LLC	TURKEY	 Oceanist
JAPAN	SHIN-EI ELECTRIC Co.,Ltd.	NORTH AMERICA		AFRICA	
				SOUTH AFRICA	SMD Telecommunications (Pty) Ltd.

 Sales Agency



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