

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		JAPAN	JRCS Co.,Ltd.	USA	MarineBTec(LA)
KOREA	S&SYS Co.,Ltd. (HQ)	JAPAN	Tsuneishi Trading Co.,Ltd.	USA	MarineBTec(NJ)
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KOREA	JEWON Engineering Co.,Ltd.	SINGAPORE	CWH Engineering	OCEANIA	
KOREA	STA	SINGAPORE	Urecon Automation Pte. Ltd.	Australia	UNI:ON Co.,Ltd.
KOREA	UNI:ON Co.,Ltd.	SINGAPORE	Seven seas automation&navcom Pte. Ltd.	SOUTH AMERICA	
CHINA	Seven Seas Electronic Co.,Ltd.(Shanghai)	SINGAPORE	KTK Group Co.,Ltd.	BRAZIL	METALOCK Brazil Ltd.
CHINA	Seven Seas Electronic Co.,Ltd.(Qingdao)	TAIWAN	YL Maritime Co.,Ltd.	BRAZIL	DZETA Serviços Empresariais Eireli
CHINA	Seven Seas Electronic Co.,Ltd.(Dalian)	TAIWAN	Reson Electronics Int'l Inc.	EUROPE	
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INDIA	Navicom technology	U.A.E	MARITRONICS	TURKEY	Oceanist
JAPAN	Orient Marine Co.,Ltd.	U.A.E	Elcome International LLC	AFRICA	
JAPAN	SHIN-EI ELECTRIC Co.,Ltd.	NORTH AMERICA		SOUTH AFRICA	SMD Telecommunications (Pty) Ltd.

Sales Agency



PORTFOLIO OF MARINE & OFFSHORE SOLUTION

Growing into the world's best company



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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

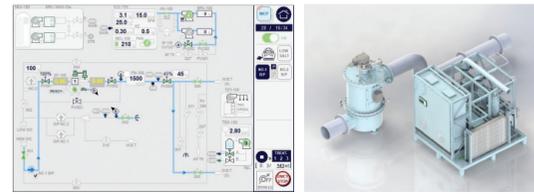
We have provided optimum solutions to over **310 clients**.

Marine Solution Package

Eco Solution

BWMS (Ballast Water Management System)

During ballasting, the ballast water treatment 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.



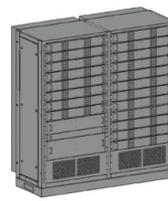
- Space-saving design
- Non toxic by-products
- Anti-corrosion & Coating protection
- Cost saving

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.



Power(SSH-1160A)

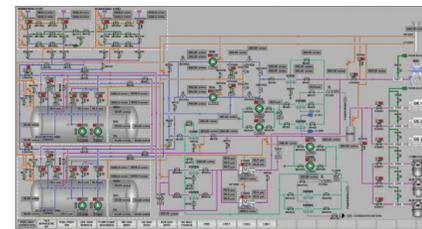


Energy(SSH-610)

- DNV type approval in 2019, KR type approval in 2021 respectively
- Two products(2.5C, 1C) available acc. to ship's configuration
- ESS installation retrofit based on each ship's electric load analysis
- ECO ship supply package including ship's design, installation and supervision

Gas Control – FGSS, Regasification control

Based on plenty of experience for control system, SSAS-Master supply robust and verified FGSS control system, Regasification control system with reasonable price. SSAS-Master have been supplied control system for the high pressure and low pressure FGSS with compressor or without compressor solution. In addition, since we have reference for both Direct type and In-direct type regasification control system, SSAS-Master are suitable for any kind of FGSS and Regasification System.



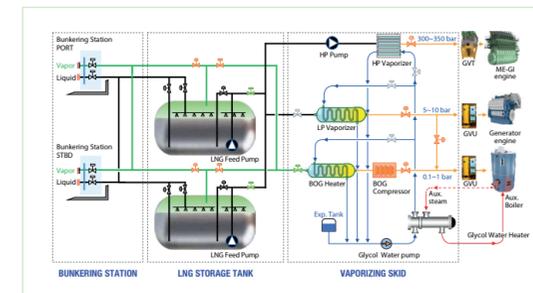
Control MIMIC for Fuel Gas Supply System

Fuel Gas Supply System (PURIGAS)

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. In the near future, we can also supply the LFSS for ammonia or methanol engine, which is under the developing.



Flow Diagram for ME-GI 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)

Power Solution

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

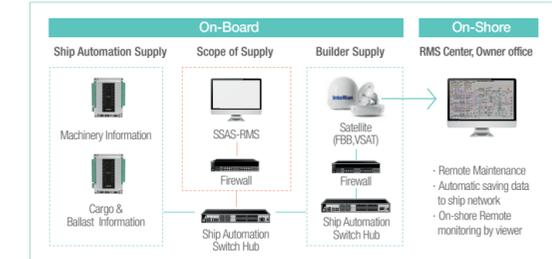
Low voltage switchboard(SSLV) has been supplying a full range of Low Voltage Switchboards for the marine electrical system with the advanced technology and experience. This Low voltage switchboard is specially developed for the marine applications. Besides providing enough working space, the compact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



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

SSAS-RMS

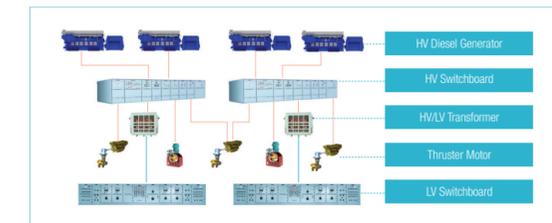
SSAS-RMS is vessels remote monitoring & maintenance system from shore in real time including data transfer to shore. This system provide big data and owner can use the data in various ways for improvement of vessel's management. And remote maintenance function offer to owner qualified service without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

Electric Power Package

S&SYS provide fully integrated power package including Generator, Transformer, Drive, Motor and Switchboard for Marine and Offshore project



- Integration engineering
 - System Optimization with basic engineering and system analysis
 - Detail specification for each equipment
 - Interface between equipments
 - Quality Guarantee
- Project management
 - Project programming and time planning
 - Subcontract management
 - Risk management
- Procurement
 - Optimized purchase to match any specific project
 - Partnerships with various subcontractors to make ideal purchase
 - Innovative contract management and control process solutions