

04 Typical Projects

No.	Project	Shipset	Shipowner/Shipyard	Scope of Supply	Class
1	159,000DWT Oil Tanker	4	TMS/New Times Shipbuilding Co., Ltd.	ESS for Sea Water Pump	ABS
2	8,100TEU Container Vessel	10	MSC (Italy) /New Times Shipbuilding Co., Ltd.	ESS for Sea Water Pump / ESS for Fan	LR
3	2,600TEU/2,400TEU/1,800TEU Container Vessel	22	Qingdao haifeng international shipping group Co., LTD/ Jiangsu New Yangzi shipbuilding Co., Ltd	MSBD/ESBD/ESS for Sea Water Pump / ESS for Fan/Control Console	ABS/NK
4	84,000m³ VLGC	4	China Gas Fortune Marine Transportation Ltd/ JiangNan Shipyard (Group) Co.,Ltd	MSBD/ESBD /Control Console ESS for Sea Water Pump	LR
5	75,000DWT Chemical/Product Oil Tanker	6	Hafnia Tankers (Denmark) / Guangzhou Shipyard International Co., Ltd	MSBD/ESBD ESS for Fan/IAMCS	DNV
6	Z-210-108 Self-elevating Jackup Rig	1	CSSC Huangpu Wenchong Shipbuilding Co.,Ltd	MSBD/ESBD ESS for Sea Water Pump	ABS
7	75,000DWT Chemical/ Product Oil Tanker	2	Torm (Denmark) / Guangzhou Shipyard International Co., Ltd.	MSBD/ESBD ESS for Sea Water Pump	DNV
8	82,000DWT Bulk Vessel	2	Tsakos Shipping And Trading S.A. (Greece) / Jiangsu New Yangzijiang Shipbuilding Co.,Ltd.	ESS for Sea Water Pump / ESS for Fan/AMS/Control console	BV
9	82,000DWT Bulk Vessel	2	Ocean Line Holdings Ltd./ Jiangsu New Yangzi shipbuilding Co., Ltd	MSBD/ESBD ESS for Sea Water Pump /ESS for Fans	DNV
10	2,300TEU Container Vessel	3	Gerchicon (Germany) / Zhoushan Changhong International Shipyard Co., Ltd.	MSBD/ESBD/Control console ESS for Sea Water Pump	DNV
11	93,000m³/22,000m³ VLGC	10	Petratrec (Singapore) / Jiangnan Shipyard (Group) Co., Ltd.	MSBD/ESBD ESS for Sea Water Pump	LR
12	83,500DWT Bulk & Oil Integrated Vessel	8	Torvald Klaveness Shipping AS (Norway) / Jiangsu Yangzijiang Shipbuilding Co., Ltd.	MSBD/ESBD/IAMCS/PMS ship performance monitoring system/ ESS for Sea Water Pump / ESS for Fan	DNV
13	93,000m³ VLGC	4	Tianjin Southwest Maritime Ltd./ Oriental Energy Co.,Ltd./ Jiangnan Shipyard (Group) Co., Ltd.	MSBD/ESBD ESS for Sea Water Pump /ESS for Fan	DNV
14	16,300DWT Oil Tanker	15	Furetank (Sweden) / China Merchants Jinling Shipyard (Yangzhou) Dingheng Co.,Ltd	MSBD/ESBD ESS for Fan/ Control console/AMP	BV
15	40,000m³ VLGC	3	Hartmann Shipping Services Germany GmbH & Co. KG/ Jiangsu Yangzijiang Shipbuilding Co., Ltd.	ESS for Sea Water Pump	DNV
16	63,500DWT Bulk Vessel	3	Atlantis (Türkiye) / China Merchants Jinling Shipyard (Nanjing) Co., Ltd.	MSBD/ESBD ESS for Sea Water Pump /SS for Fan	LR
17	86,000m³ VLGC	2	Exmar Marine NV (Belgium) / Jiangnan Shipyard (Group) Co., Ltd.	MSBD/ESBD ESS for Sea Water Pump /ESS for Fan	LR
18	30,000m³ VLGC	1	Anthony Veder Redezaken B.V. (Netherlands) / Jiangnan Shipyard (Group) Co., Ltd.	MSBD/ESBD ESS for Sea Water Pump	DNV
19	2,200TEU Container Vessel	5	Maersk/ Jiangnan Shipyard (Group) Co., Ltd.	MSBD/ESBD ESS for Sea Water Pump / ESS for Fan/Control console	CCS
20	Intelligent Unmanned System Research Institute Comprehensive Scientific Research Ship	1	Guangdong Intelligent Unmanned System Research Institute/ Guangzhou Shipyard International Co., Ltd.	MSBD/ESBD ESS for Sea Water Pump / ESS for Fan	CCS
21	4,500m³/3,500m³self-propelled cutter suction dredger	1	Changjiang Sea-route Bureau/ Shanghai Zhenhua Heavy Industries Co.,Ltd.	MSBD/ESBD ESS for Sea Water Pump	CCS
22	880 Pax/2,160M Lane Ropax	1	Weihai Jiaodong International Container Shipping Co., Ltd./ AVIC Weihai Shipyard Co., Ltd.	MSBD/ESBD/IAMCS/ ESS for Sea Water Pump/ Control console	CCS
23	2,000 Pax/3,000M Lane Ropax	1	Bohai Ferry Group Co.,Ltd./ Huanghai Shipbuilding Co., Ltd.	MSBD/ESBD/ESS for Sea Water Pump/ ESS for Fan/IAMCS/ Valve remote control system	CCS

Global Service Direct Contact:

SaierNico Electric & Automation Ltd.

Add:Dingmao Economic Development Zone,
Zhenjiang, Jiangsu, China
Tel:+86-511-8888 3508
Fax:+86-511-8888 2561
E-mail:saiernico@saiernico.com

SaierNico Europe A/S

Add:Østergade 18,6500 Vojens, Denmark
Tel:+45 74 54 02 22
E-mai:info-europe@saiernico.com

Worldwide Service & Spares

Tel:+86-511-8888 3508, +45 4120 2222
Mob:+86-139 5288 4208, +86-151 0529 5231
E-mail:SNservice@saiernico.com
Web:www.saiernico.com

SaierNico
GROUP

You Sail, We Serve!
www.saiernico.com

ESS
Energy Saving System



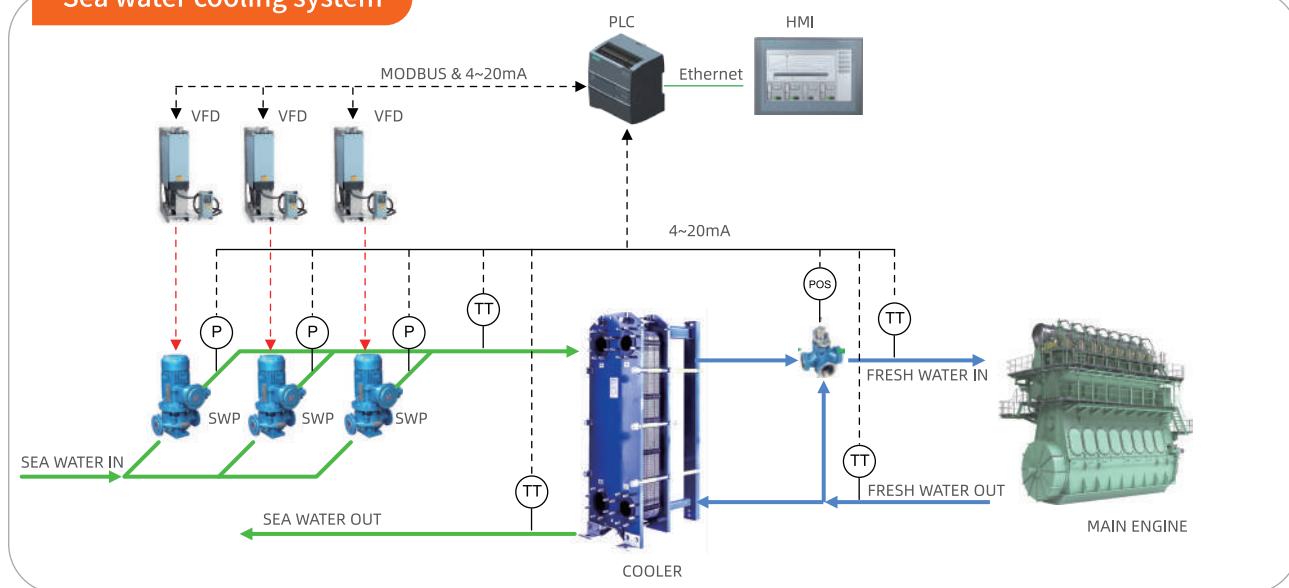
SaierNico Group | SaierNico Electric & Automation Ltd.

01 Characteristic

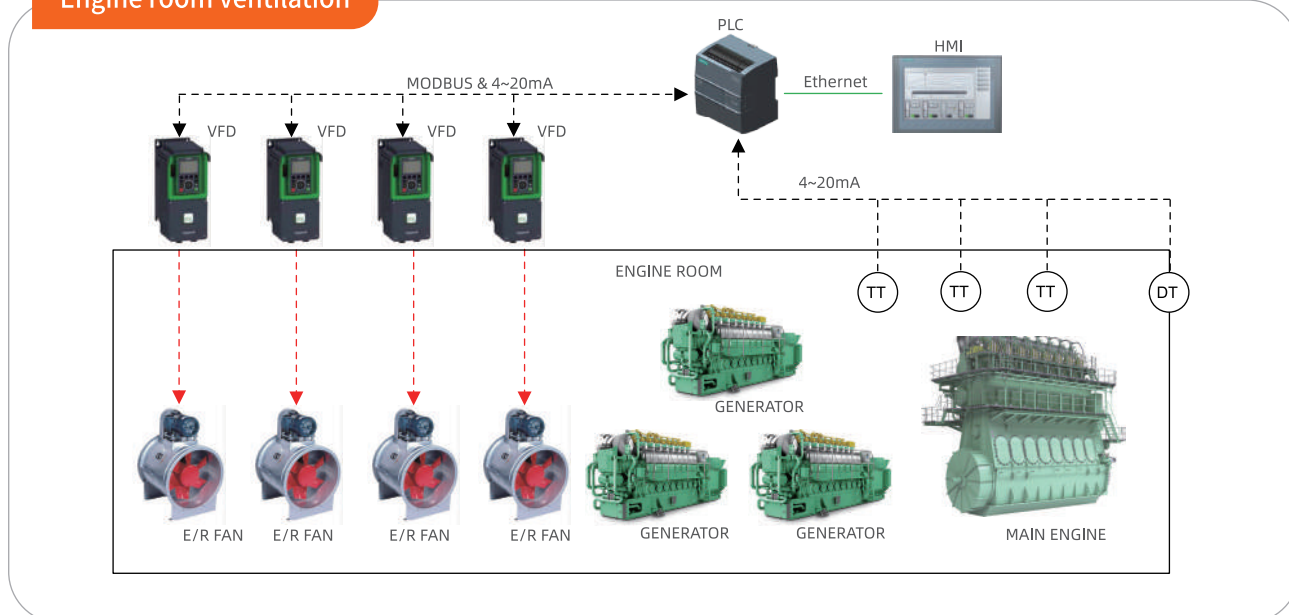
Energy Saving System (ESS) is through optimizing pump and fan speed according to current condition to save energy. It also helps customers improve their ship's energy efficiency design index (EEDI) and reduce carbon emissions. ESS is designed to be used in new building and retrofit projects and also can be integrated in automation system.

02 Solution

Sea water cooling system



Engine room ventilation



03 Product Composition

VFD Cabinet

Characteristic:

- Pump and fan start/stop, speed control
- PID adjust
- Parameters setting
- By-pass control
- Standby pump control
- Remote control and communication interface



VFD

Characteristic:

- Range: 0.75kW-250kW
- Class certificate
- Easy maintenance, long service life

Transducer

Characteristic:

- Temperature(PT100,4-20mA)
- Pressure(4-20mA)
- Differential pressure(4-20mA)

