

Total solution provider  
in marine environment



# IGT<sup>®</sup>

ISSAC GREEN TECHNOLOGY

—  
Ballast Water Management System  
SOx Scrubber  
LNG Solution

# TOTAL SOLUTION & ONE-STOP SERVICE

IGT stands for ISSAC Green Technology specialized in BWMS, SOx scrubber and LNG solutions.

We, ISSAC E&C, have created our own brand in order to concentrate our capability more on Green Technology and to provide professional relevant services including engineering, procurement, installation, A/S and O&M in BWMS, SOx scrubber and LNG business by operating its special team composed of qualified and experienced engineers.

Based on our global network, especially in China and Turkey, IGT team will surely offer satisfactory and qualified services to domestic and global clients through minimizing their budget and time loss.



ISO 9001



ISO 14001



OHSAS 18001



ISO 17020

# STRENGTH



IGT

Optimized  
Quality and  
Schedule  
Control

Experienced  
Engineers  
in Environment  
Solution

ONE STOP  
SOLUTION

Minimized  
Economic  
Risks

Wide Business  
Network in  
China and  
Europe

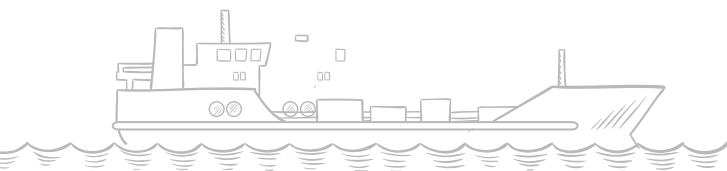
MINIMIZE YOUR BUDGET AND TIME LOSS!





# BALLAST WATER MANAGEMENT SYSTEM

- Ship owner business
- Project management
- Engineering
- Procurement
- Installation
- Commissioning
- Training
- After Service

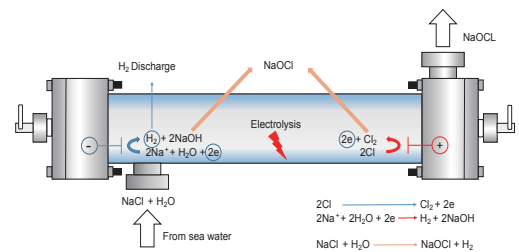




## AVAILABLE SOLUTION

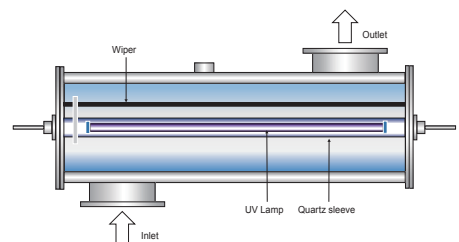
### Electro Chlorination

- Side-stream technology
- Low power consumption
- Easy for piping design & system arrangement
- Very low maintenance cost
- Suitable for medium and large scaled vessel



### Ultra Violet

- 100% physical treatment type
- No use of chemical substances that induce corrosion inside the tanks
- Suitable for small and medium scaled vessel
- Able to treat with no concerns in salinity and temperature of water

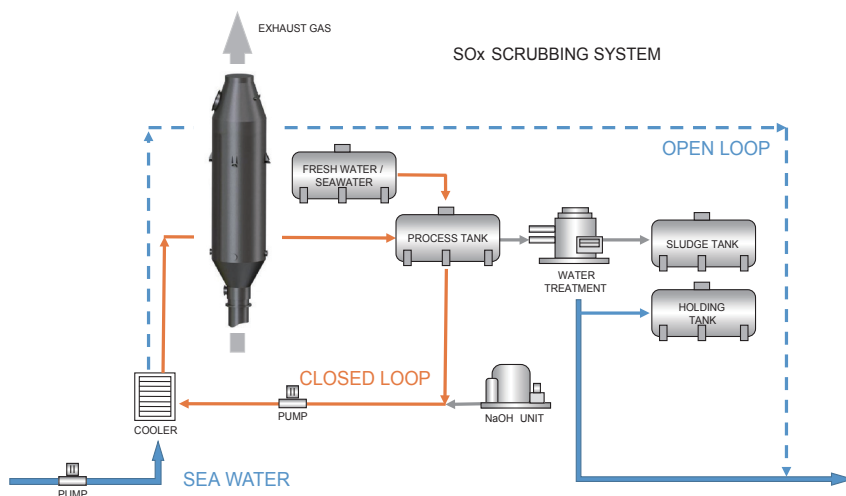




## SOx SCRUBBER

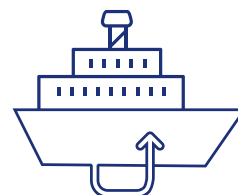
- Ship owner business
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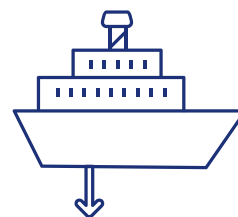
## CLOSED LOOP SCRUBBERS

The closed loop is used for zero discharge areas.  
The seawater in the process is continuously re-circulated.



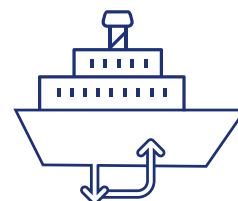
## OPEN LOOP SCRUBBERS

Instead of being re-used, the process water is discharged directly back to open sea while still complying fully with the IMO regulations. Optionally, the seawater can be pumped through a water treatment system removing all solids and oil.



## HYBRID SCRUBBERS

The hybrid scrubber system would run in closed or open loop mode. The water is either re-circulated or discharged overboard.



# LNG SOLUTION

Engineering

FeasibilityG study

Cold test, Sea trial & Gas trial

Cargo operation manual

Commissioning Training

LNG bunkering

Operation & Maintenance

LNGC

LNG-FSRU

LNG Bunkering Vessel

LNG Fueled Ship

FLNG



# BUSINESS NETWORK

## In KOREA

- ISSAC E&C
- Service station for Korea, China, Japan market
- 4 shipyards

## In CHINA

- Joint Top
- Service station for Korea, China, Japan market
- 9 shipyards

## In TURKEY

- Gürdesan
- Service station for Turkey and Europe
- 3 shipyard and ship repairing complex
- 1 suezmax capacity F/D



# SERVICE NETWORK



Ballast Water Management System

SOx Scrubber

LNG Solution



# PARTNERS

青岛双瑞  
SUNRUI



# TOTAL SOLUTION PROVIDER IN MARINE ENVIRONMENT

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