

# S.M.C. NEWS

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Schulte Marine Concept

## Bernhard Schulte supplies Siemens with two Service Operation Vessels

13 January 2015



Marketing News

Siemens has signed a chartering agreement with ship owner Bernhard Schulte for two new service operation vessels (SOV) to be purpose-built for the long-term service and maintenance operations of the Gemini and Sandbank/Dan Tysk offshore wind power plants in the North Sea. Officials from Siemens and Bernhard Schulte together with its offshore wind affiliate WINDEA Offshore met this past week in Brande, Denmark, to commemorate the project start and sign the chartering agreement.

The two new SOVs will be built by Ulstein Verft Norway and will become operational in 2016 and 2017 when both of the Gemini and Sandbank offshore wind projects are scheduled to begin operations. An added benefit of the vessel being built for the Sandbank project is that it can also be utilized for Siemens' service operations for the nearby Dan Tysk wind farm already in operation.

"Siemens is proud to be the first in the industry to introduce these new purpose-built SOVs as we continue to focus on advancing our offshore service operations for the benefit of our customers," said Mark Albenze, CEO, Siemens Wind Power and Renewables Services Business Unit. "By improving efficiencies in our service operations we can help our customers realize optimal performance from their turbines, thereby contributing to advancing the competitiveness of offshore wind energy for the future. Our charter agreement with Bernhard Schulte offers us the opportunity to work with an experienced ship-owning company and we look forward to the start of offshore operations with these new SOVs in 2016."

This year, as part of its innovative new offshore logistics concept, Siemens is scheduled to begin utilizing its first two SOVs commissioned specifically for the Butendiek and Baltic II offshore wind projects in Germany.

As the industry leader in offshore wind service, Siemens is at the forefront of introducing these new SOVs that are being constructed specifically for offshore wind service operations. Siemens is taking an active role in the vessel design with particular emphasis on safety and improving efficiency. By utilizing these purpose-built SOVs, customers will benefit from Siemens' emphasis on more effective use of resources and personnel, as well as better accessibility with less time lost waiting for suitable weather conditions. They also feature advanced active gangway systems for safe access to the turbines in varying weather and wave conditions. In addition, the Gemini and Sandbank/Dan Tysk SOVs will feature a helideck. The SOV logistics can then combine with the steady ground readiness of a helicopter to provide customers with a customized logistics program designed to meet their specific needs.

WINDEA Offshore is a joint venture of Bernhard Schulte, EMS Maritime Offshore and SSC Wind Group. As a representative of a reliable and keen group of specialists, WINDEA provides multiple solutions including consulting for the construction and the maintenance of offshore wind farms.

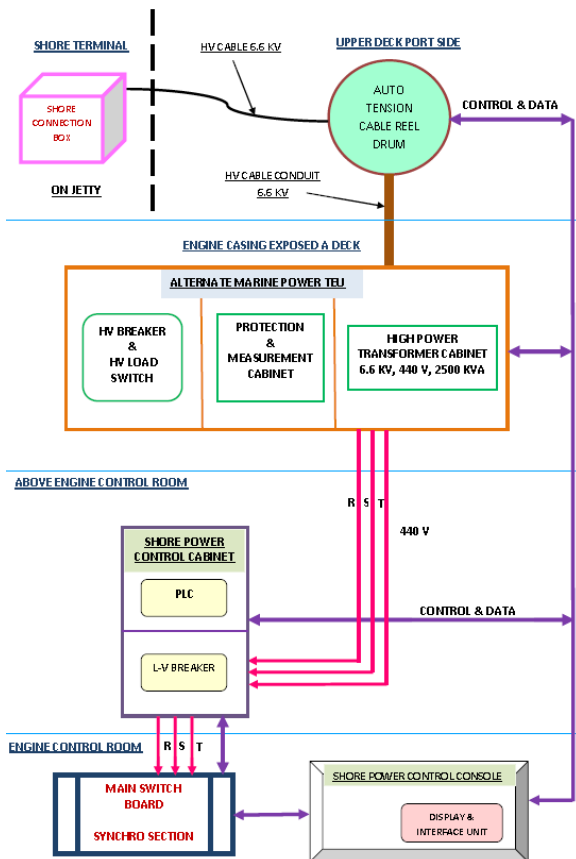




## Rongsheng Valemax Cold Ironing System



Joglekar Aditya Sharad  
Site Manager  
Rongsheng Site Office



**ALTERNATE MARINE POWER SYSTEM – H1114 (ORE TIANJIN) SYSTEM LAYOUT DRAWING**

In keeping with the VALE corporate philosophy of "GREEN SHIP OPERATIONS", VALE advised S.M.C. RongSheng Site Office to provide technical input for Lianyungang Port based Xinhang Electricals to design, fabricate, install and test a Cold Ironing System on H1114 (ORE TIANJIN). A power input of 6.6kV @ 60Hz is used and after voltage reduction by an on-board dedicated 2,500 kVA transformer to 450V @ 60Hz, the electrical power is supplied to the vessel through the Main Switch Board. There are no high voltage 6.6kV electrical cables laid inside the vessel's enclosed areas, only 450V cables are used in enclosed areas.

The shore power supply electrical cable construction is a combined power & data transfer cable type using in-built fibre optic cables (type CJPF86/SC-8.7/15kV). This shore power cable is fitted onto an auto-tension winch installed on the vessel upper deck port side, because the Lianyungang shore power supply facility is normally on the vessel's port side. This auto-tension winch is installed on the open upper deck adjacent to the accommodation superstructure. The shore power supply electrical cable connector to the shore connection box can instantly & automatically disengage in case of excessive shore power supply cable tension or due to other emergency situations on board the vessel.

The dedicated step down transformer system, Protection & Measurement Cabinet and High Voltage Breaker/Load Switch, are installed in a tailor made ventilated TEU, which is secured on the exposed engine casing A deck portside. If needed, this TEU can be removed from the vessel for maintenance by removing the high and low voltage electrical cable connectors. The location and weight of this TEU is handled by the ship board 10 T SWL provision crane.

The low voltage is fed into the Main Switch Board power synchronising section, and is controlled by the Shore Power Control Console (mounted inside the Engine Control Room) and the Shore Power

Control Cabinet (installed on the top of the Engine Control Room).

After lowering the shore power supply cable to the jetty and connecting the shore power supply cable to the shore connection box, the electrical load transfer and power supply switch-off for the ship board diesel generators is achieved by a single button operation.

The fibre optic transmission and network communication system provided enables real-time monitoring of power supply parameters, data transfer & sharing, alarm messages delivery and other functions, in addition to voltage-stabilizing closed circuit control, automatic voltage tracking, automatic adjustment, and voltage stabilization. There is ship-shore data exchange enabling the provision of a reliable and stable shore power system.

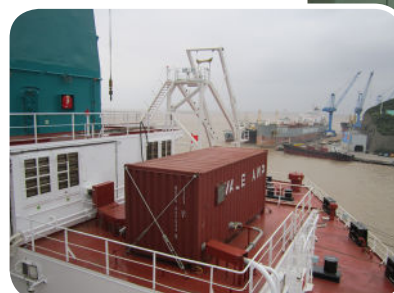
The on-board shore power system is equipped with a user friendly dialog interface that displays the real-time status of high-voltage shore power, the on-board power grid and different power-related parameters along with fault alarms. Protection is provided against over current, short circuit, over voltage, under voltage, reverse power, load imbalance, low insulation and grounding error. The above general fault alarm is connected to the vessel's Alarm Monitoring System.

The main components for this AMP are:

- (1) Auto tension shore power supply winch with cable and shore power connector
- (2) High voltage shore power TEU containing Input-Output Switchgear, High Voltage Protection & Measurement Unit, Step Down Dry Type 2,500 kVA Transformer, Shore Power Supply Cable Auto Tension Winch Control Cabinet, Internal Lighting & Ventilation Units
- (3) Shore Power Control Cabinet that includes Low Voltage Circuit Breaker, Shore Power Management System Control unit
- (4) Shore Power Control Console

The equipment was shop tested and certified by classification at maker works.

Upon installing on-board, the safety for each of the above listed system equipment was tested separately. This vessel was also berthed at Lianyungang Port to carry out actual shore power supply system.



## Introduction of Site Offices --- Huatai Site Office



Huatai Shipyard (Huatai Heavy Industry Co. - HTHI) is a green field shipyard established in 2006, on the Yangtze River coast in Nantong, Jiangsu Province, China. The company is engaged

in ship building, offshore steel structures and heavy industry components fabrication. The yard has 3 slipways served by 150T and 300T gantry cranes and 2 outfitting berths. The yard facilities include well equipped fabrication, painting, pipe and machine shops. The total

manpower of the yard is about 2000, including sub-contract workers.

Huatai Shipyard has delivered 12 vessels to date. This includes 5 x 37800 dwt bulk carriers for Interlink, Bermuda, delivered during 2011 - 2013. The Interlink vessels were supervised by S.M.C. and are currently managed by BSM, Hong Kong.

Interlink, Bermuda has further ordered 8 x 38500 dwt fuel efficient, eco-friendly bulk carriers with Huatai Shipyard, which are scheduled for delivery during 2015 - 2016. The first vessel in the series was launched in Dec 2014 and will be delivered to owner in April 2015. All the vessels are under supervision of S.M.C.

The Interlink Site Office in Huatai Shipyard has 9 members, consisting of 1 Site Manager, 2 Hull, 2 Machinery, 3 Painting Inspectors and 1 Secretary, 3 of the site team members are expats. When the production is in full swing, the strength of the site office will be 12.

## Supervisors of Site Office --- Huatai Site Office



Sreedharamenon  
Ramachandran  
Site Manager



Marin Marin  
Machinery Supervisor



Huang Guohuo  
Machinery Supervisor



Tao Ruijiang  
Hull Supervisor



Zhang Yongkang  
Hull Supervisor



Alvin Cantor  
Coating Supervisor



Wang Huaying  
Coating Supervisor



Qiao Zonghua  
Coating Supervisor



Zhu Peipei  
Secretary

## S.M.C. Winter Notice



Do

- Stretch your body before commencing work
- Wear proper footwear and walk slowly
- Be aware of snow or icicles on the edge of eaves
- Take extra caution driving in snow and on icy roads
- Make yourself visible when working or walking around trucks or heavy duty equipment



Eat Healthily

- Eat warming foods, warm yourself up from the inside out
- Eat more cooked than raw food
- Eat immune-boosting foods: add garlic to your meals, eat plenty of leafy greens, fresh foods, and foods high in vitamin C and zinc



Do not

- Walk with your hands in your pockets
- Stand, work around suspended snow, ice, etc.
- Wear cotton clothes in cold weather
- Continue to work when you notice signs of cold injury, i.e. numbness and pain in extremities



Drink More Liquid

- Hot or cold, drink more water through the winter
- Drink before, during and after work
- It is essential for your immune system and health for flushing out those toxins and germs



Stay Warm

- Select proper clothing for cold, wet, and windy conditions
- Wear a hat, gloves and knee protectors for outside work
- Wear underwear that will keep water away from the skin
- Take frequent short breaks in warm dry shelters to allow the body to warm up
- Be aware of exhaustion or fatigue because more energy is needed to keep muscles warm



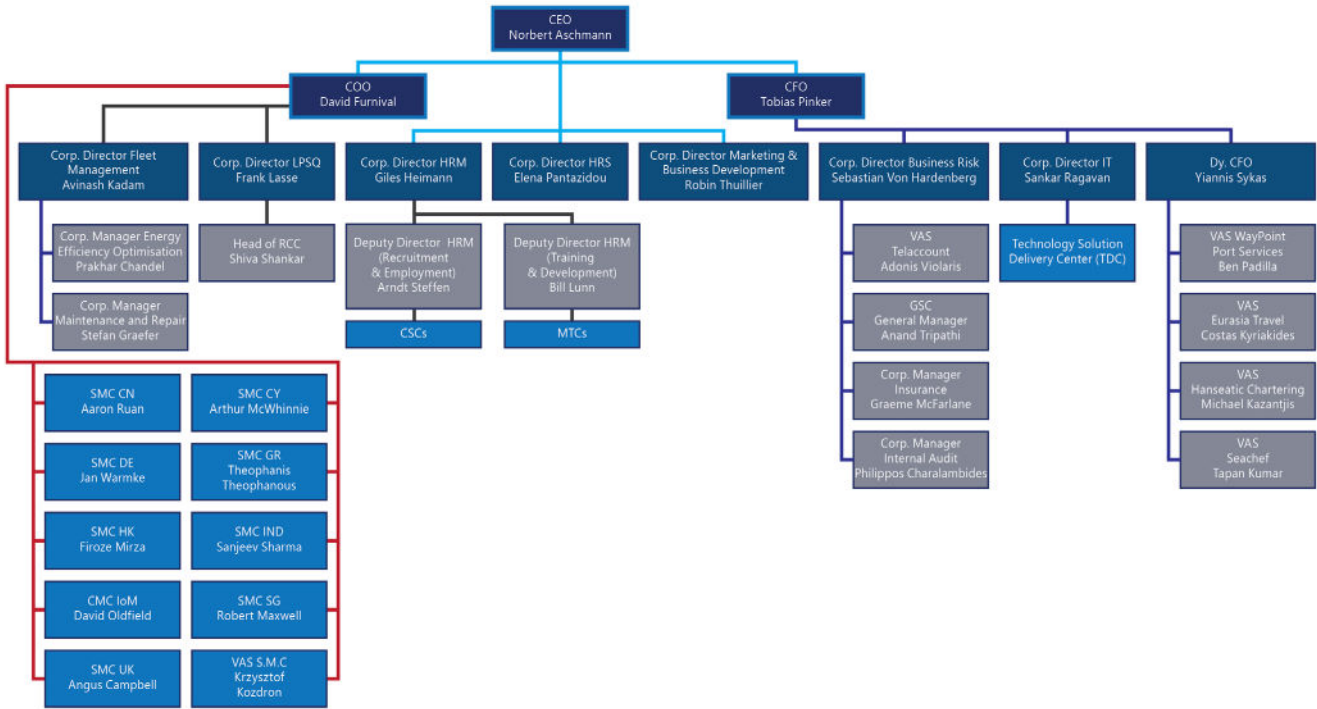
Drive safely

- Avoid driving while you are fatigued
- Use your seat belt every time
- Never warm up a vehicle in an enclosed area, such as a garage
- Keep your gas tank at least half full to avoid gas line freeze-up
- Do not use cruise control when driving on any slippery surface (wet, ice)
- Do not start quickly, brake or change direction suddenly



### Bernhard Schulte Shipmanagement – Organisational Chart

BSM Organisation Structure 2015



CEO – Chief Executive Officer	COO – Chief Operating Officer	CFO – Chief Financial Officer
HRM – Human Resources - Marine	HRS – Human Resources - Shore	LPSQ – Loss Prevention Safety & Quality
RCC – Regulatory Compliance Centre	SMC – Ship Management Centre	VAS – Value Added Services
CSC – Crew Service Centre	MTC – Marine Training Centre	GSC – Global Shared Services

### Bernhard Schulte Shipmanagement – Fleet under Management as on 31 October 2014

