







# **MARINE REFERENCES**

HART

LNG Fueled Ships FLNG and FSRU Bunkering Vessels Bunkering Stations Port Power Applications



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## **LNG Ship Fuel Solutions**



10 YEARS EXPERIENCE

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Shipset	Description	Operator	Ferry name & Particulars	Class	Year of installation	Current status	Engine	Operating area
1	2 x 125m <sup>3</sup> tanks each w/cold boxes containing evaporation equipment, PBU's, valves, piping, instrumentation, controls	Fjord 1	Bergensfjord 130m length, 589 pax, 212 cars	DNV	2006	Operating	Rolls Royce 2xKVGS- 12G4+2xKVGS-16G4, 11800KW	Norway
2	2 x 125m <sup>3</sup> tanks each w/cold boxes containing evaporation equipment, PBU's, valves, piping, instrumentation, controls	Fjord 1	Fanafjord 130m length, 589 pax, 212 cars	DNV	2007	Operating	Rolls Royce 2xKVGS- 12G4+2xKVGS-16G4, 11800KW	Norway
3	2 x 125m <sup>3</sup> tanks each w/cold boxes containing evaporation equipment, PBU's, valves, piping, instrumentation, controls	Fjord 1	Raunefjord 130m length, 589 pax, 212 cars	DNV	2007	Operating	Rolls Royce 2xKVGS- 12G4+2xKVGS-16G4, 11800KW	Norway





# LNG Ship Fuel Solutions





Shipset	Description	Operator	Ship's name	Class	Year of installation	Current status	Engines	Operating area
1	6m <sup>3</sup> tank with two coldboxes (one on each side of the tank)	Green Power Shipping	Green Power 6023	CCS	2015	Operating	2x155kW SG	China Yangtze River
2	6m <sup>3</sup> tank with two coldboxes (one on each side of the tank)	Green Power Shipping	Green Power	CCS	2015	Operating	2x155kW SG	China Yangtze River





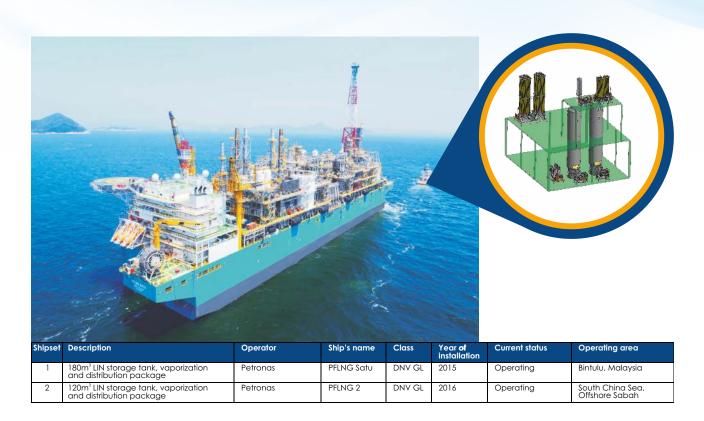
# **LNG Ship Fuel Components**







#### LIN Storage and Vaporization for FLNG



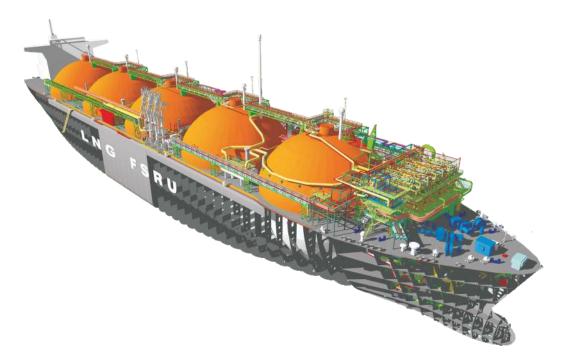
#### **BAHX and Cold Boxes for FLNG**





# Vaporization Equipment for FSRU







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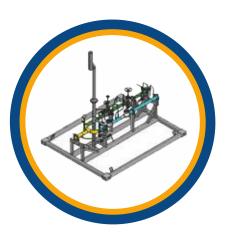
# LNG Bunkering Vessel



### LNG Bunkering Skid







Unit	Description	Operator	Year of installation	Current status	Location
1	Skid for bunkering from two trailers simultaneously (75m³/h)	Shell/Gasnor	2016	Operating	Norway



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# LNG Bunkering Stations









Station	Location	Туре	Description	Operator	Year of installation	Current status
1	Sunndalsora, Norway	Evaporation plant & bunkering station	3 x 500m³ tanks, pump, ambient air & water bath vaporizers	Naturgass Vest	2003	Operating
2	Mosjoen, Norway	Evaporation plant & bunkering station	5 x 683m³ tanks, pump, ambient air vaporizers	Gasnor	2006	Operating
3	Halhjem, Norway	Bunkering station	2 x 500m <sup>3</sup> tanks, pump, jetty module 100m vacuum Insulated piping DN150	Gasnor	2006	Operating
4	Vestbase, Norway	Bunkering Station	500m³ tank, pump	Statoil	2008	Operating
5	Kolo Aalesund, Norway	Distribution plant	2 x 683m³ tanks, pump	Naturgas Moere	2009	Operating
6	Ora, Norway	Multifunctional terminal	9 tanks, total volume: 6300m <sup>3</sup> , pumps, ambient air vaporizers	Skangas	2011	Operating

PERUENCE



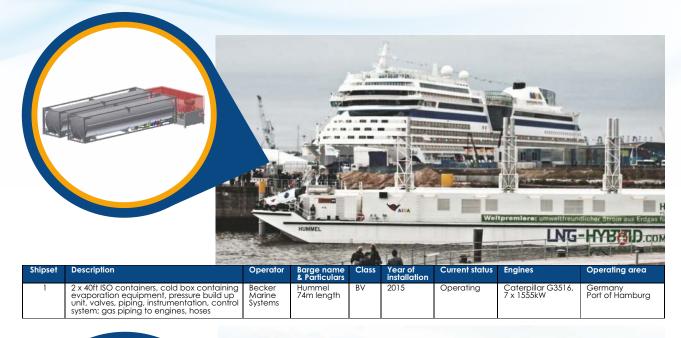
#### **LNG Bunkering Stations**



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#### **LNG Port Power Applications**











#### **Contact us**

**Chart Ferox, a.s.** Ústecká 30 405 30 Děčín V Czech Republic

www.ChartLNG.com LNG@chartindustries.com

