







MARINE REFERENCES

HART

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



Innovation. Experience. Performance. ®

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 ³ 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 ³ 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 ³ 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 ³ 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 ³ 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



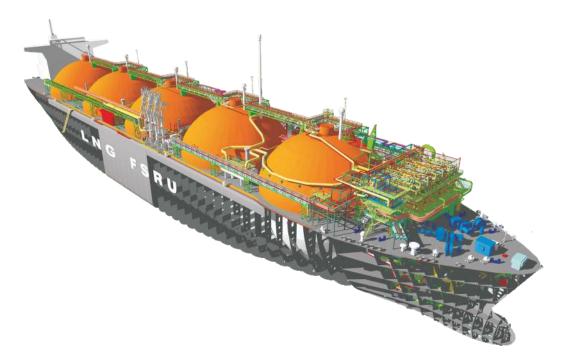
BAHX and Cold Boxes for FLNG





Vaporization Equipment for FSRU







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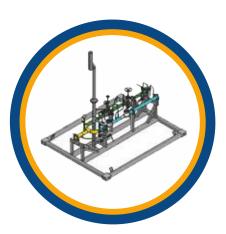
LNG Bunkering Vessel



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 ³ 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 ³ , pumps, ambient air vaporizers	Skangas	2011	Operating

PERUENCE



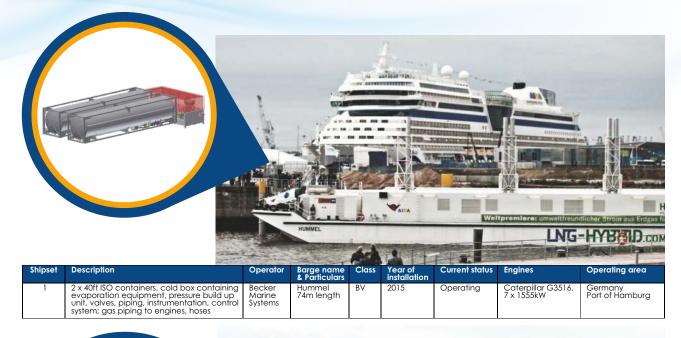
LNG Bunkering Stations



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LNG Port Power Applications











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