HiLoad LNG Offloading System
- enables safe tandem LNG offloading to any conventional LNG Carriers -
HiLoad LNG – Key Particulars

- Operation with ANY LNGC – No mod. required
- High regularity: operation in Hs = 4.0 m
- Safety: 150 m separation - DP2 Station Keeping
- Final qualification of critical LNG components in progress

- Operation with first HiLoad DP starting in Brazil in February 2014 (by Remora for Petrobras)
- HiLoad provides Roll Reduction of LNGC = reduced sloshing
- LNG, LPG and Condensate Offloading by same HiLoad vessel

3 x 20” Floating LNG/Vapour Return Hoses, 370 m
Loading Rate: 10 000 m³/h
Qualification of 20”/20 bar hose acc. to EN1474-II ongoing (by Trelleborg)
18” hose already qualified acc. to EN1474-II by SBM (now Trelleborg)

Sevan FLNG
Key LNG Components

- Standard LNG Loading Arms connected to LNGC Manifold. No relative motion.
- 3 x 20" Quick Connect/Disconnect Hose Coupler from LNG/Vapour Hoses. System approval acc. To EN 1474-3
- Vapour Return Booster Compressors on HiLoad 3 x 50% capacity
- 20" Condensate Hose Coupler
  Typical BLS used for Shuttle Tankers
360° Weathervaning of LNGC from Sevan FLNG

FLNG Support Vessel
~20-30 ton

Sum of wind, wave and current forces

LNGC HEADING:
0 deg 90 deg 180 deg 270 deg 0 deg

HiLoad STB side HiLoad STB side
LNG, LPG and Condensate Offloading by ONE HiLoad

• ONE HiLoad designed to handle LNG, LPG and Condensate Offloading
• Dedicated Hose Coupler Systems for all fluids

16" Hose connected to midship manifold

Conventional Condensate Tanker
Aframax size shown

Dedicated Condensate Hose Coupler
Typical BLS used for Shuttle Tankers

Sevan FLNG

Standard 16" Condensate Hose, 330 m
Loading rate 5 000 m³/h
## Highlights – HiLoad LNG

### ANY LNGC
Any conventional LNGC can be used. Existing fleet utilized. High flexibility.

### LOW CAPEX
No need for special purpose built LNGC (with DP and Bow Loading). Significant CAPEX savings.

### FOB DELIVERY
Opens up for FOB delivery of LNG at FLNG. Buyer provides LNGC’s from existing fleet. LNGC CAPEX commitment avoided.

### SAFETY
Tandem Offloading provides enhanced safety compared to side by side loading. 150 m - safe distance. DP2 Station Keeping

### QUALIFICATION
Final qualification of critical LNG components in progress. HiLoad DP starting operation in Brazil in February 2014.

### HIGH UPTIME
Operation in Hs 4.0m Roll Reduction of LNGC = Reduced Sloshing. Safe DP approach of LNGC to FLNG.