

**30,000 cbm LNG-Carrier**  
**'Hai Yang Shi You 301'**  
**for CNOOC, China**

**Project Data:** 2550

**Shipyard:**

Jiangnan Shipyard Group Co., Ltd., China

**Year of completion:** 2015

**Classification:** CCS

**TGE's scope:**

Design and supply of complete equipment and material for cargo handling system, cargo tanks and fuel gas system



**Vessel:**

30,000 m<sup>3</sup>  
 Length o.a. 184.7m  
 Beam: 28.1 m  
 Draught (LNG): 7.4 m  
 Speed: 16.5 kn

**Characteristics of gas plant:**

**Capacity:** 30,000 m<sup>3</sup>  
**Number of cargo tanks:** 4 (bilobe type)  
**Material of cargo tanks:** 9% Ni Steel  
**Cargoes:** LNG  
**Design temperature / pressure:** -164°C / 3.5 bar g acc. to IMO at sea  
**Maximum cargo density:** 500 kg/m<sup>3</sup>  
**Number of segregations:** 1  
**Cargo manifolds:** 2 liquid lines, 2 x 16" ANSI 150 lbs flanges  
 1 vapour lines, 1 x 16" ANSI 150 lbs flanges  
**Loading- / Unloadingrate:** 4,400 m<sup>3</sup>/h  
 Deepwell pump 8 x 550 m<sup>3</sup>/h at 120 m LC  
 Booster pump  
**BOG-handling & fuel gas system:** 2 x cargo compressors with intercoolers  
 2 x aftercoolers  
 2 x submerged fuel gas pumps  
 1 x forcing vaporizer  
 1 x fuel gas buffer tank  
 1 x fuel gas metering system  
**Cargo piping system:** Stainless steel, AISI 316L  
**Inertgas plant:**  
 Membrane system Capacity: 80 Nm<sup>3</sup>/h at 3 vol. % O<sub>2</sub>