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# BOIL-OFF GAS RE-LIQUEFACTION, REFRIGERATION & COMPRESSION

## CLIENT



**Project:** Bulk Liquids Terminal  
**Location:** Egypt, Onshore  
**Delivery:** 2019 & 2020

**AUSTRALIA**  
Suite 4a, 5 Bridge Street  
Coniston, NSW, 2500 Australia  
Tel: +612.4249.4000  
[info@reiprocess.com](mailto:info@reiprocess.com)  
[www.reiprocess.com](http://www.reiprocess.com)

**UAE**  
Arenco Tower, Office No. 110/111  
Dubai Investment Park - Dubai, UAE  
Tel: +971.4885.0099  
[info@reiprocess.com](mailto:info@reiprocess.com)  
[www.reiprocess.com](http://www.reiprocess.com)





## PETROJET, BASIN 3 LIQUID BULK TERMINAL SOKHNA PORT, EGYPT

The BOG Re-liquefaction maintains the pressure in 3 x 50,000 m<sup>3</sup> storage tanks by liquefying Boil Off Gas (BOG) during various operating cases. The BOG-Re-liquefaction is a cascade system, comprising three open BOG Re-liquefaction cycles and one closed Propane Refrigerant Cycle System (Re-condensation system) to sub-cool the condensed BOG.

- 1800 kW net refrigeration capacity at -40°C
- 6 x Two-stage screw BOG compressors, Kobelco KS31LTX
- 4 x Two-stage screw Recondensation compressors, Kobelco KS31STX
- 9 x Air Cooled heat exchangers for condensers and oil coolers
- 5 x receivers, 2 x flash economisers and 3 x sub-cooler and suction drums
- Interconnecting piping and pipe rack
- 30 x Unit Control Panels and associated control logic

The complete package including all the mechanical, instrumentation and electrical equipment are installed outdoors in Sokhna Port, Egypt. Highly tailored control logic is implemented to control the operation for the BOG Re-liquefaction system during various modes of operation.

Very stringent fire protection requirements apply to the complete package with all hydrocarbon piping and equipment covered in various passive fire protection systems such as intumescent or insulation type. Sonker terminal will serve as the main supply of LPG to the Egyptian network.



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