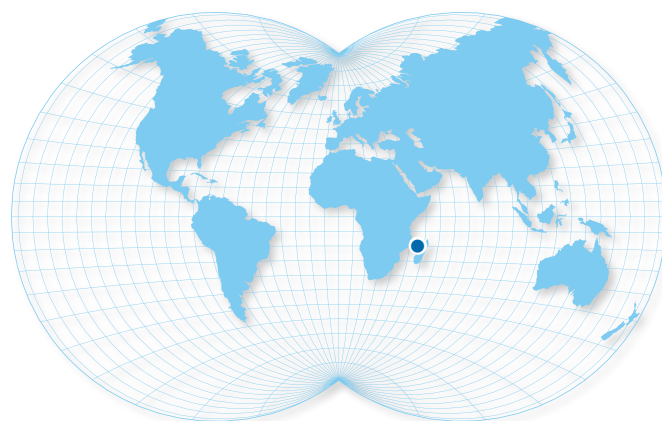


## CORAL FIELD - MOZAMBIQUE:

# FLNG Coral South Permanent Internal Turret



### Scope of Work

SOFEC designed, constructed, fabricated and installed a permanent internal turret for the Eni Coral South FLNG.

The Coral South FLNG Turret represents SOFEC's 4th Single Point Mooring System for LNG related business and using SOFEC's High Integrity Pressure Protection Systems (HIPPS) technology. SOFEC's design enables a reduced pressure envelope through the swivel stack by efficiently locating the HIPPS on the geostationary part of the turret. This results in increased operational safety on the FLNG vessel, thereby increasing safety for personnel. This technology also clears deck space on the vessel where real estate is at a premium.

The SOFEC internal turret mooring system will be Lloyd's Register classed.

### General Description

Client Name:	ENI
Contract Award:	July 2017
Installation Date:	April 2022
First Gas:	June 2022
Vessel Size:	210,000 mt
Process Capacity:	3.4 MTPA LNG

Water Depth:	2,000m (6,560 ft)
Fabrication:	Turret - Singapore Vessel/Topsides - Korea

### Design Environmental Criteria [100-year storm]

Extreme [100-yr Return Period]

Sig. Wave Height:	13.2 m (43.3 ft)
Wind Velocity:	32.6 m/s (63.3 kts)
Current:	1.16 m/s (2.25 kts)

Survival [10,000-yr Return Period]

Sig. Wave Height:	17.2 m (56.4 ft)
Wind Velocity:	49.2 m/s (95.7 kts)
Current:	2.55 m/s (4.96 kts)

### Mooring System

20-leg (5x4) taut mooring legs with chain-polyester and chain segments  
 Top chain: 158mm R3S studless chain  
 Bottom chain: 149mm R4 studless chain  
 Polyester rope: torque balanced, parallel construction with MBS of 1890mTon  
 Suction Pile: L = 21m, D = 5m



# FLNG Coral South

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**(Continued)**

## **Fluid Swivel Assembly**

- {3} 12-in Toroidal Production Swivel
- {1} 12-in Toroidal Fire Water Swivel
- {1} 8-in Toroidal Pigging Swivel
- {1} Low Voltage Electrical Slip Ring
- {1} Low Voltage Electrical Optical Slip Ring

## **Riser System**

- {6} 12-in Flexible Risers plus 2 future
- {3} umbilicals plus 1 future