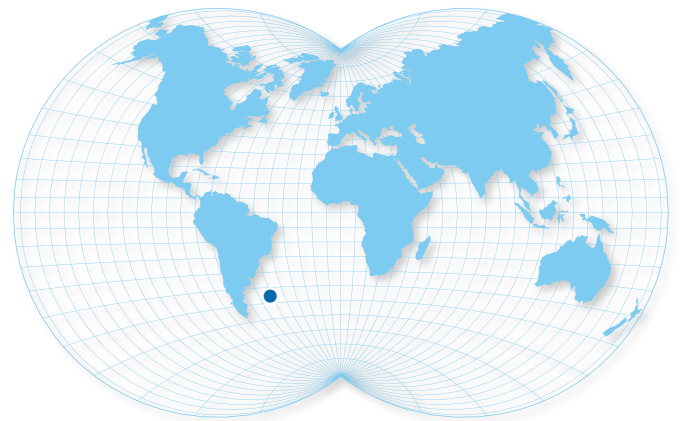


BACALHAU FIELD, SANTOS BASIN, BRAZIL:

FPSO Bacalhau Spread Mooring System

Under
Construction



Scope of Work

SOFEC is responsible for the design and procurement of a spread mooring system for the FPSO Bacalhau, at the Bacalhau field, Block BM-S-8 located in the giant "pre-salt" region of the Santos Basin some 185 kilometers off the coast of the municipality of Ilhabela/SP, in the state of São Paulo.

The FPSO vessel will be permanently moored at a water depth of approximately 2,050 meters. First oil production is planned in the 2023-2024 timeframe.

The SOFEC spread mooring system will be DNV classed.

General Description

Client Name:	Equinor
Contract Award:	January 2020
Installation Date:	Planned for 2023
First Oil:	Planned for 2023
Vessel Size:	334,000 dwt
Storage Capacity:	1,000,000 bbls
Water Depth:	2,100 m (6,888 ft)

Design Environmental Criteria (100-year storm)

Sig. Wave Height:	9.3 m (30.5 ft)
Wind Velocity:	21.5 m/s (61.00 kts)
Current:	1.48 m/s (2.88 kts)

Mooring System

4 x 5 mooring system consisting of chain and polyester rope connected to suction piles.

Riser System

- 16 Production Risers
- 5 Spare Risers
- 2 Gas Injection Risers
- 2 Umbilicals
- 1 Water Injection Riser
- 1 Chemical Well Treatment Riser
- 1 Gas Lift Riser