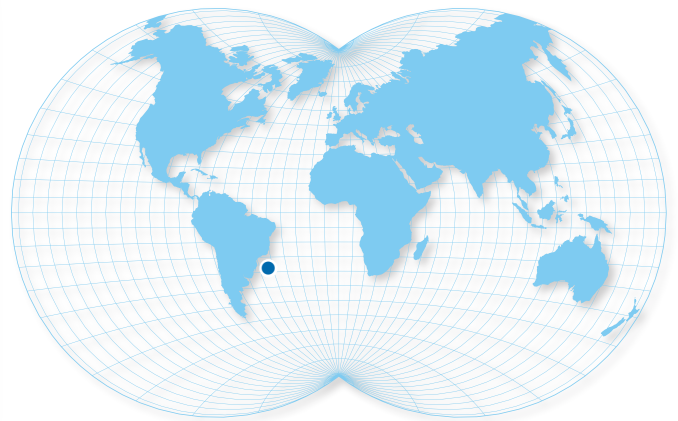


## CAMPOS BASIN, BRAZIL:

# FPSO Cidade de Itaguai MV26 Spread Mooring



### Scope of Work

SOFEC designed and procured a spread mooring system for the FPSO Cidade de Itaguai – MV26 which is deployed in the BM-S-11 (Lula-Iracema Norte field, Campos Basin) offshore Brazil.

The FPSO is capable of processing 150,000 barrels of oil per day or 180,000 barrels of total fluids per day, 8,000,000 Sm<sup>3</sup>/d of gas and has a storage capacity of 1,600,000 barrels. The FPSO is able to inject 240,000 barrels of water per day.

The FPSO can accommodate a total of 55 flexible risers and umbilicals. The FPSO is also able to accommodate 15 steel risers instead of the 15 flexible pipes serving the production/gas injection wells.

The SOFEC spread mooring system is ABS classed.

### General Description

Client Name:	Petroleo Brasileiro S.A. (Petrobras)
Contract Award:	January 2013
Installation Date:	June 2015
First Oil:	July 2015
Vessel Size:	299,150 dwt
Storage Capacity:	1,600,000 bbls

Water Depth: 2,240m (7,347ft)

### Design Environmental Criteria (100-year storm)

Sig. Wave Height:	11.6m (38.06ft)
Wind Velocity: (10-min avg)	34.51m/s (67.08 kts)
Current:	1.67m/s (3.25 kts)

### Mooring System

4 x 6 mooring system consisting of chain and Torpedo piles supplied by Petrobras

### Riser System

- 10 production risers
- 10 service risers
- 5 production/ gas injection risers
- 5 water injection/ service risers
- 2 water injection risers
- 2 gas export riser + 1 gas export umbilical
- 17 well control umbilical
- 3 subsea monitoring umbilical
- 1 optical cable