



## Technip awarded three subsea pipelines contracts in Brazil

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Technip has been awarded by Petrobras three major contracts, totaling approximately USD 270 million, for pipelines intended to deepwater development projects in Brazil:

- The first contract covers engineering, procurement, installation and commissioning (EPIC) of a rigid flowline<sup>(1)</sup> that will connect the Canapu field, located in the Espírito Santos Basin at a water depth of 1,700m, to the Cidade de Vitória FPSO<sup>(2)</sup> anchored in 1,400m of water. This 21km-long flowline will be the first application of pipe-in-pipe<sup>(3)</sup> technology for subsea transportation of gas in Brazil. The Deep Blue, Technip's deepwater pipelay vessel, will install the flowline during the fourth quarter of 2008.
- The second contract comprises engineering and procurement of 37km of 4" and 6" flexible flowlines for the Mexilhão field, in the Santos Basin. The 6" flowlines have been specially designed to cope with extreme temperature and pressure of the carried fluids.
- The third contract includes engineering and procurement of four large diameter flexible risers<sup>(4)</sup> for the PDET export system that will be installed at a water depth of 1,300m, in the Campos Basin. This contract is a new example of the opportunity offered by flexible pipe technology for advanced riser systems in deep waters.

Technip's operations and engineering center in Rio de Janeiro (Brazil) will execute these contracts. The flexible pipes will be manufactured by Flexibras, one of the Group's flexible pipe plants located in Vitoria (Brazil).

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(1) Flowline: a pipe, laid on the seabed, which allows the transportation of oil/gas production or injection of fluids. Its length can vary from a few hundred meters to several kilometers.

(2) FPSO (Floating, Production, Storage and Offloading): a converted or custom-built ship-shaped floater, employed to process oil and gas and for temporary storage of the oil prior to transshipment.

(3) Pipe-in-pipe: steel pipes assembly consisting of a standard production pipe surrounded by a so-called carrier pipe. The gap between the carrier and production pipes is filled with an insulation material. As the insulation is protected from the external pressure by the carrier pipe, a high thermal performance material can be used

(4) Riser: a pipe or assembly of pipes used to transfer produced fluids from the seabed to surface facilities, and transfer injection or control fluids from the surface facilities to the seabed.

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With a workforce of 22,000 people, Technip ranks among the top five corporations in the field of oil, gas and petrochemical engineering, construction and services. The Group is headquartered in Paris. The Group's main operations and engineering centers and business units are located in France, Italy, Germany, the UK, Norway, Finland, the Netherlands, the USA, Brazil, Abu-Dhabi, China, India, Malaysia and Australia.

In support of its activities, the Group manufactures flexible pipes and umbilicals, and builds offshore platforms in its manufacturing plants and fabrication yards in France, Brazil, the UK, the USA, Finland and Angola, and has a fleet of specialized vessels for pipeline installation and subsea construction.

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