The Sangomar field (formerly the SNE field), containing both oil and gas, is located 100 km south of Dakar and will be Senegal’s first offshore oil development. The Rufisque Offshore, Sangomar Offshore and Sangomar Deep Offshore (RSSD) joint venture, comprising of Woodside (Operator), FAR Limited and Holding Société des Petroles du Sénégal (Petrosen), is committed to the development of Sangomar field in accordance with international industry best practice and relevant government regulations.

The Sangomar Field Development Phase 1 (Sangomar Field Development) represents a near-term oil development opportunity and is Senegal’s first oil project. This phase will focus on developing the less complex reservoir units and testing other reservoirs to support potential future oil development phases and possible export of gas to shore. Phase 1 of the development will target the production of ~231 MMbbl of oil resources (P50 gross)*. First oil is anticipated in 2023.

In January 2020, the RSSD joint venture took a final investment decision (FID) for the Sangomar Field Development and commenced execution phase activities.

As Operator, Woodside recognises the importance of local content and the potential for the oil and gas industry to create opportunities and drive economic growth in Senegal. Woodside also continues to build and maintain a positive working relationship with the Government of Senegal and other external stakeholders.

* (P50 gross, 60 MMbbl (2P) reserves Woodside net economic interest).

Development information
+ Discovered in 2014
+ Located 2 km below the seabed floor
+ Reservoir covers an area of 400 km² in water depths of 700 – 1400 metres.

The Sangomar Field Development concept includes the installation of a stand-alone Floating Production Storage and Offloading (FPSO) facility and subsea infrastructure that will be designed to allow subsequent development phases. These options include potential gas export to Senegal and future subsea tie-backs to other fields.

** Woodside Energy (Senegal) B.V. executed a biding sale and purchase agreement to acquire Capricorn Senegal Limited’s entire participating interest in the Rufisque, Sangomar and Sangomar Deep (RSSD) joint venture. Cairn Energy PLC shareholders voted in favour of the transaction on 23 September 2020. Following completion, which is subject to other customary conditions precedent and is targeted for Q4 2020, Woodside’s equity interest will increase to: approximately 68.33% in the Sangomar exploitation area and 75% for the remaining RSSD evaluation area. Woodside will remain the operator.
Drilling and subsurface

The joint venture plans to undertake an extensive drilling and completions campaign to support the development, including the drilling of up to 23 production, gas and water injection wells. The reinjection of gas and water will help maximise the recovery of the oil and enable the gas to be stored in the reservoirs for future use. The drilling campaign will be undertaken using up to two drill ships, with the commencement of drilling operations, targeted for mid-2021.

The 23 wells will be connected by specially designed subsea units that will be installed to ensure the safe and controlled flow of oil between the wells and the facility. The wells will be connected to the FPSO through a network of flowlines and subsea infrastructure. Preparation is underway in Senegal to support these activities.

FPSO

An FPSO is a vessel specifically designed for the processing of hydrocarbons and the storage of oil. The FPSO processes the hydrocarbons through a series of facilities located on the deck which separates the different fluids from the crude oil. The processed crude oil is stored in tanks located in the hull of the FPSO before being offloaded via a flexible floating pipe to tankers which transport the crude oil to global markets.

The FPSO will be permanently moored above the Sangomar field in a water depth of approximately 800 metres. The mooring system is fixed to a turret on the bow of the vessel, which allows the FPSO to pivot according to local weather and marine conditions. The FPSO is approximately 300 metres long and up to 60 metres wide. Depending on the final design, it will require an operational workforce of 80-125 people, along with logistics and other support services provided through Woodside and contractor-operated facilities in Senegal. The FPSO will have a production capacity of approximately 100,000 barrels per day of crude oil, which will provide revenue to help deliver sustainable long-term economic and social benefits for Senegal.

Support services

Supply chain and logistics, in particular the transport of goods and consumables from the Port of Dakar, is planned to be supported from onshore facilities in Dakar. Helicopters and marine vessels will transport the equipment and the workforce to and from Dakar.

Future activities

In addition to the Sangomar Field Development, the joint venture is continuing to pursue opportunities for the other oil discoveries located in the Rufisque Offshore and Sangomar Offshore blocks, following high definition 3D marine seismic data acquired in Q1 2020.

Community and environment

The Sangomar Field Development Phase 1 is expected to provide several potential socio-economic benefits for Senegal including:

- Opportunities for direct and indirect employment, training and skills development; and
- Development of the capacity and capability of local companies through local procurement and strengthening of supply chains.

Our approach to sustainable development is fundamental to maintaining our social license to operate and Woodside is committed to delivering economic and social benefits to the people of Senegal. The Sangomar Field Development joint venture participants aim to build and maintain long-term relationships and implement social investment programs that create capacity and capability in local communities. This includes a commitment to ongoing engagement with government, industry and community so that all stakeholders understand the potential benefits and impacts of the development and the ways in which they can provide feedback.

Woodside will maintain a community grievance mechanism for the life of the Sangomar Field Development that will address community inquiries in a timely and effective manner. The approved Environmental and Social Impact Assessment (available in French and English) assesses the potential benefits and impacts that activities associated with the Sangomar Field Development may have on the physical, ecological and socio-economic environment, and proposed mitigation measures to address these impacts.

Further information

This Overview, along with other information on Woodside’s Sangomar Field Development, is available at www.woodside.com.au

Proposed developments are subject to joint venture approvals, regulatory approvals and relevant commercial arrangements. Therefore, development concept and timing may be subject to change.

If you require further information or would like to comment, please contact Woodside by email to developpementsne@woodside.com.au or call +221 33 824 40 60.

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All information is current as at November 2020.