

# SANGOMAR FIELD DEVELOPMENT PHASE I

The Sangomar field (formerly the SNE field), containing both oil and gas, is located 100 kilometres south of Dakar and will be Senegal's first offshore oil development. First oil production is targeted in 2023. The Rufisque Offshore, Sangomar Offshore and Sangomar Deep Offshore joint venture, comprising of Woodside Energy Senegal B.V. (Woodside) (Operator), FAR Senegal RSSD SA (FAR) and Société des Pétroles du Sénégal (PETROSEN), is committed to the development of Sangomar field in accordance with international industry best practice and relevant government regulations. The initial phase is referred to as the Sangomar Field Development Phase 1 (the Sangomar Field Development). This phase will focus on developing the less complex reservoir units and testing other reservoirs. This phase of the development will target ~ 230 million barrels of crude oil.\*

The Sangomar Field Development was approved by the joint venture and entered into the execution phase in January 2020, following the receipt of all required government approvals and the execution of key contracts. As Operator, Woodside is working closely with all contractors to maximise local content benefits for Senegal through in-country activities. The joint venture is committed to working with the Government of Senegal, local communities and contractors to realise the potential opportunities and benefits from this nationally significant development.

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

## Development information

- Field discovered in 2014
- Located 2 km below the seabed floor
- Spread over 400 km<sup>2</sup>, in water depths of 700 – 1400 m.

The development 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.



Artist impression of the FPSO for the Sangomar Field Development offloading oil to an offshore tanker.



Artist impression of the FPSO connected through risers to the network of flowlines and subsea infrastructure.

## Participating Interest

Rufisque Offshore, Sangomar Offshore, Sangomar Deep Offshore (RSSD) Blocks

PARTICIPANT	SANGOMAR EXPLOITATION AREA	REMAINING RSSD EVALUATION AREA
<b>Woodside</b> (operator)	68.33%	75%
PETROSEN	18%	10%
FAR Limited	13.67%	15%

## 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. We continue to target the commencement of the drilling and completions campaign in mid-2021.

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 two drill ships.

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.

## 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 to global markets.

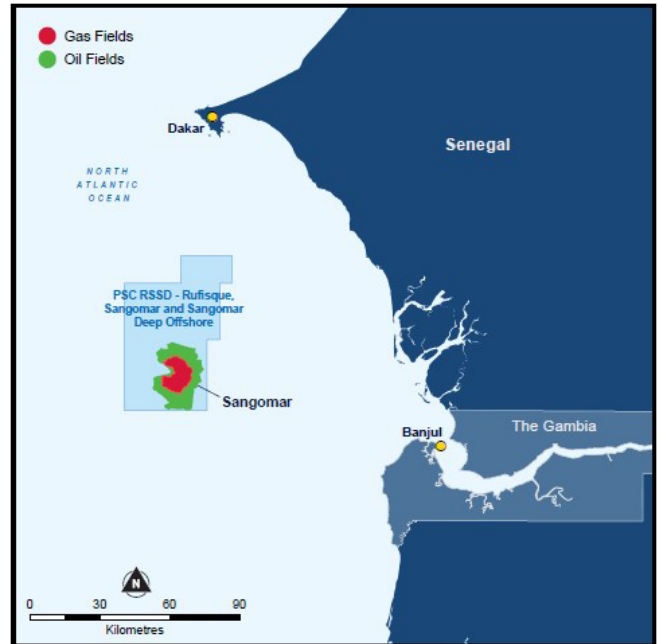
The FPSO will be permanently moored above the field in a water depth of approximately 800 metres. The mooring system is fixed to a turret on the bow of the vessel, which allows the FPSO to pivot according to local weather and marine conditions. The FPSO is approximately 300 metres long and up to 60 metres 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 will transport the workforce to and from the FPSO from Dakar.

## Future activities

In addition to the Sangomar Field Development the joint venture is considering potential opportunities for the other discoveries located



Map showing Sangomar field within the permit acreage.

in the Rufisque Offshore and Sangomar Offshore blocks, following a detailed 3D high definition seismic survey completed in the fourth quarter of 2019.

## Community and environment

Woodside and the joint venture are committed to working sustainably. This approach is fundamental to maintaining our social license to operate through delivery of long-term economic and social benefits to the people of Senegal. This includes a commitment to ongoing engagement with a wide range of stakeholders including government authorities, businesses and local communities so that all stakeholders understand the potential benefits and impacts of the joint venture's activities 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 and aims to resolve complaints as quickly as possible at the local level. The approved Environmental and Social Impact Assessment (available in French and English) assesses the Sangomar Field 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](http://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 [developmentSNE@woodside.com.au](mailto:developmentSNE@woodside.com.au) or call +221 32 824 40 60.

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All information is current as at March 2021.