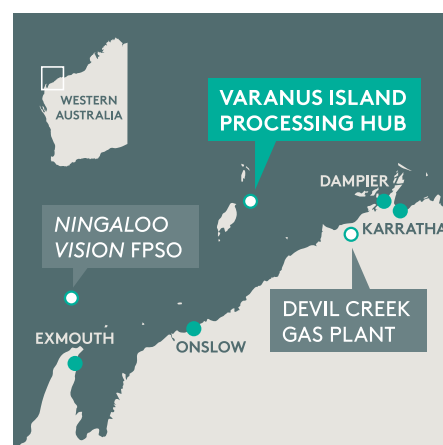


## VARANUS ISLAND HUB

**The Varanus Island Hub is the base of Quadrant Energy's Western Australian energy portfolio.**

Located 75 kilometres offshore northwest Australia, Varanus Island is surrounded by a network of fixed production platforms which feed gas, oil and condensate into the island's facilities for processing, storage and export to market. Key facilities include those that support the Quadrant Energy-operated John Brookes, Harriet and East Spar Joint Ventures. Varanus Island has been in operation since 1986.



Varanus Island Hub



### ABOUT VARANUS ISLAND

Varanus Island is one of the Lowendal group of islands which lie 20 kilometres northeast of Barrow Island and 15 km south of the Montebello Islands on the North West Shelf of Western Australia. The Islands are vested as a Nature Conservation Reserve and managed by the Western Australian Government for the protection of flora and fauna.

Since 1986 approximately 30 hectares of the Reserve has been leased for the operation of the oil and gas receiving, processing and loading/export facilities and associated infrastructure known as the Varanus Island Hub. The lease and environmental plan conditions require Quadrant Energy to undertake regular environmental monitoring and annual reporting of results to the State Government.

## VARANUS ISLAND HUB

Quadrant Energy operates a range of oil and gas production and infrastructure facilities on Varanus Island on behalf of its joint venture participants. Since its construction the hub has grown incrementally as Quadrant and its partners have added new oil and gas fields to the regional production portfolio.

The Varanus Island Hub has a reliable capacity of 290TJ of gas per day. Oil and condensate are stored on the Island and transferred to tankers for direct export, while natural gas is transported into the Dampier to Bunbury Natural Gas Pipeline (DBNGP) and the Goldfields Gas Transmission (GGT) pipeline. The Island has an accommodation capacity for its workforce and acts as a support base for a number of Quadrant Energy's offshore operations across the North West Shelf.

## QUADRANT ENERGY AND DOMESTIC GAS

Quadrant Energy is one of Australia's most significant producers of oil and gas, and one of the largest producers of domestic gas in Western Australia.

Current gas production operations in Western Australia include the Varanus Island and Devil Creek domestic gas and condensate facilities, and Quadrant Energy is also a joint venture participant in the BHP-operated Macedon domestic gas plant which commenced operations in August 2013.

In 2016, Quadrant Energy accounted for 22.3 percent of domestic gas production in Western Australia (84.8 petajoules), making it the state's largest single domestic gas supplier.

## ONGOING BENEFIT TO WESTERN AUSTRALIA

Natural gas is a key commodity in Western Australia and has served to underpin the robust growth of the resources sector and associated industries.

The Varanus Island Hub provides ongoing benefits to Western Australia by ensuring an independent gas supply into the DBNGP. All of the produced gas from Quadrant's gas facilities services the domestic gas market in WA, and underpins the resources sector and associated industries.



## DEVELOPMENT MILESTONES

Halyard (Santos 45%)	<b>2011</b>	Production start
	<b>2010</b>	Development consent
	<b>2008</b>	Discovered
John Brookes (Santos 45%)	<b>2005</b>	Production start
	<b>2004</b>	Development consent
	<b>1998</b>	Discovered
Harriet	<b>1992</b>	Gas production start
	<b>1986</b>	Oil production start
	<b>1985</b>	Development consent
Varanus Island facilities	<b>1985</b>	Construction of tanks, processing plant and accommodation
Harriet area oil and gas field	<b>1983</b>	Discovered