



Photo: Woodside Energy Ltd



Invest in the West

Oil and Gas in Western Australia

By 2018, Australia's liquefied natural gas (LNG) production is expected to be 87 million tonnes (Mt) a year – the largest of any country.

Western Australia will have LNG production capacity of 48.7Mt by 2018, 56 per cent of Australia's total capacity.

Perth, the capital city of Western Australia, has the largest concentration of global oil and gas companies in Australia.

These companies operate projects across Australia, while servicing and supplying oil and gas exploration and production across the Indian Ocean and Pacific region.

WESTERN AUSTRALIA FAST FACTS

- Perth, with more than 2 million people, is a regional centre for servicing oil and gas projects
- Minerals and petroleum exports of A\$93.5 billion in 2014-15
- Annual LNG export capacity to grow from 20.6Mt in 2015 to 48.7Mt in 2018
- Western Australia has conventional gas resources of more than 130 trillion cubic feet (tcf), estimated tight gas resources of 86 tcf and estimated shale gas resources of between 91 and 193 tcf
- As at September 2015, Western Australia had A\$171 billion of major resource projects under construction or committed, with 89 per cent being LNG projects

Western Australia's Natural Gas Reserves/Resources (tcf)

LEGEND

- Gas basin
- Gas pipeline
- Conventional gas reserves (proved and probable)
- Conventional gas resources (contingent)
- Shale gas resources (risked and recoverable)
- Tight gas resources (gas initially in place)

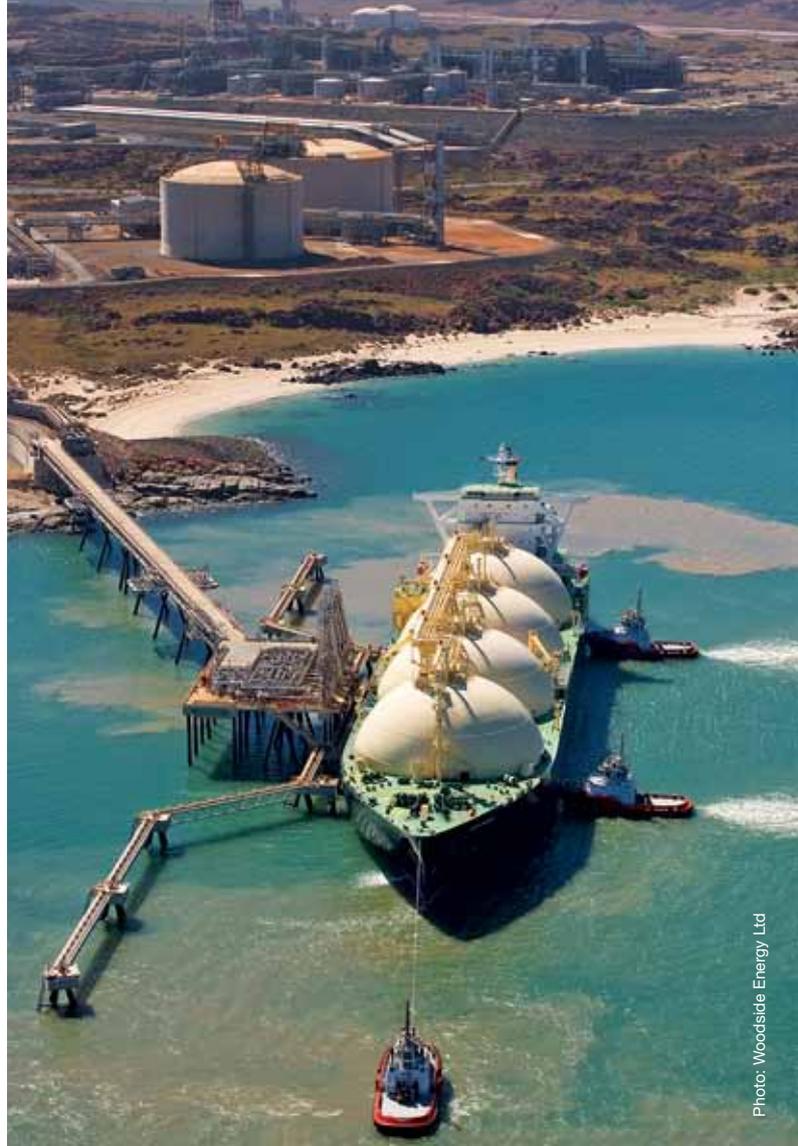
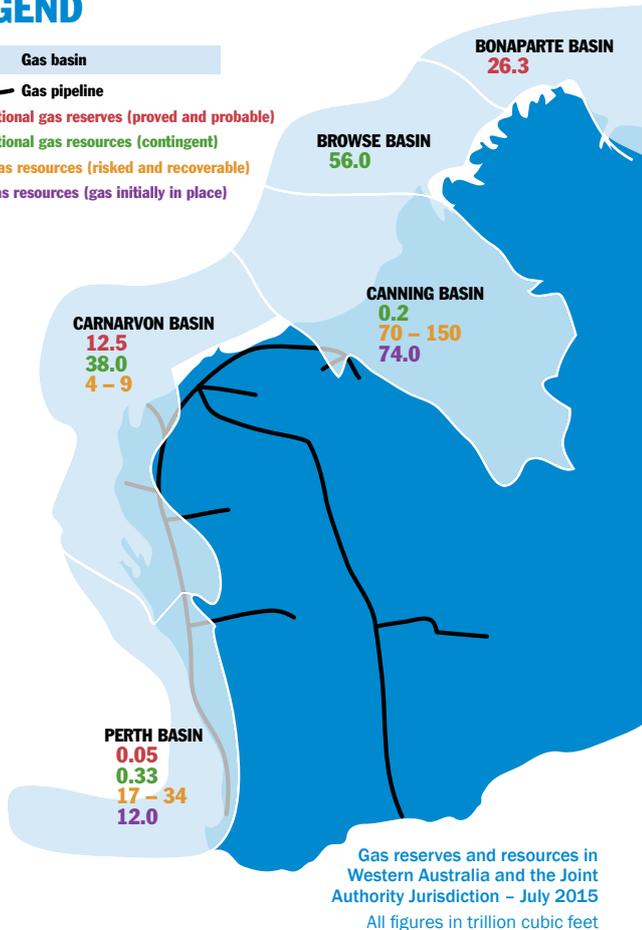


Photo: Woodside Energy Ltd

Western Australia's Economic Credentials

Western Australia has averaged 5.3 per cent economic growth over the past decade due to its capacity to attract, develop and operate some of the world's largest energy and mineral projects. In 2014-15, there was more than A\$2 billion of investment in petroleum exploration in Western Australia, accounting for 54.6 per cent of Australia's total.

With around 50 operating oil and gas fields, Western Australia produced 20.6Mt of LNG in 2015, accounting for 85 per cent of Australian LNG production and an estimated 9 per cent of world LNG production.

Western Australia's conventional gas resources are estimated to be more than 130 trillion cubic feet, while oil and natural gas liquids reserves are estimated to be around 1,700 million barrels. Shale gas resources in the Perth, Carnarvon and Canning Basins are estimated to be between 91 and 193 trillion cubic feet, while an estimated 86 trillion cubic feet of tight gas resources are contained in the Perth and Canning Basins.

As of September 2015, Western Australia had A\$152.9 billion worth of LNG projects under construction or committed, and a further A\$74.5 billion under consideration.

Western Australia's Commercial Environment

Western Australia has:

- the shortest travel times from an Australian State capital to most Asian and Indian Ocean markets
- a shared time zone with much of Asia
- longstanding business links with China, India, Japan, Korea and South East Asia
- a transparent regulatory framework and simplified investment procedures

Western Australia:

- is a historic supplier of mineral and energy products
- accounts for almost one third (31.9 per cent) of all ASX listed companies

Perth's Role as a Global Resource Centre

- LNG developments in Western Australia are supported by a strong and experienced oil and gas services sector.
- There are more than 800 global and local energy companies and related equipment, technology and service providers based in Perth.
- Perth is home to the Australasian head offices of BP, Chevron, ConocoPhillips, Eni, GDF Suez, Halliburton, Hess, Inpex, KUFPEC, Shell and Total, and the global headquarters of Australia's largest energy producer, Woodside.
- Perth has an active membership of the World Energy Cities Partnership
- Global finance, legal, consulting, aviation, transport and logistics firms are located in Western Australia.
- The workforce has expertise in subsea exploration and production technologies, marine services and petroleum related research, Front End Engineering and Design (FEED), geophysical surveying, project management, process and electronic engineering, fabrication and construction management.

Western Australia's Innovation Advantages

Perth is a centre for scientific and technological innovation, driven by the needs of the mining and energy sectors.

Major petroleum operators, service providers and research institutes have recognised the potential and research capability of the city, choosing to establish research and development centres in the State. These include:

- Chevron Global Technology Centre
- GE Oil & Gas service, maintenance and training facility
- IBM Natural Resources Solutions Centre for Petroleum
- KPMG Global Oil and Gas Centre of Excellence
- Shell Centre for Floating Liquefied Natural Gas (FLNG) Learning and Research
- Five universities and three technical institutes offer energy-related courses and research
- Government/industry/university partnerships – for example, the Western Australian Energy Research Alliance comprising CSIRO, Curtin University and the University of Western Australia

Perth is also a global mining hub which offers capabilities at the intersection of energy research.



Cultural Diversity

Western Australia is one of Australia's most culturally diverse States with over a third of its residents born overseas – the highest proportion of all Australian capital cities. Migration has added diversity to the population giving Western Australia a competitive edge in its international linkages.

Today the State's social diversity includes:

- people from more than 190 countries
- approximately 270 spoken languages and dialects
- more than 130 religious faiths

Traditionally its people were from the United Kingdom and Europe, followed by migrants from South-east Asia and the Middle East. More recently migrants from South Asia and Africa have made Western Australia their home.

A Dynamic Lifestyle and Location

Perth is consistently ranked amongst the world's top ten most liveable cities by the Economist Intelligence Unit – the highest for all major resource cities in the world. The city offers a relaxed, friendly and outdoor lifestyle with modern infrastructure, health and education facilities and leisure and cultural activities.

Western Australia covers an area of 2.5 million square kilometres (3.5 times the size of Texas), and has a pristine coastline stretching 12,500 km. Perth's Mediterranean-style climate averages eight hours of sunshine a day.

Perth is serviced by 18 international and 12 domestic and regional airlines connecting travellers to over 110 destinations globally and Australia-wide. Along with this, Western Australians continue to enjoy one of the highest weekly earnings, about 15 per cent higher than the national average. Perth is also Australia's western gateway to the world's most dynamic and emerging economies in Asia, with over 4 billion in population.

Information current as at March 2016.

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