

Australian Gas Markets

The Australian Energy Market Operator (AEMO) operates retail and wholesale gas markets across Australia. Below are some statistics produced over the 2018 calendar year. Please note that gas data is represented in petajoules (PJ).

Declared Wholesale Gas Market

The Declared Wholesale Gas Market (DWGM) was established to enable competitive and dynamic trading on injections and withdrawals from the Victorian Gas Declared Transmission System.



204 PJ

Total annual consumption



10 PJ

Gas-Powered Generation consumption



\$2.2 billion

Value of all gas scheduled in the market



59

Market participants

Short Term Trading Markets

The Short Term Trading Markets (STTM) were designed to facilitate short term gas trading between gas shippers and users as a demand hub. STTM hubs currently operate in Adelaide, Brisbane and Sydney.



145 PJ

Annual consumption for Adelaide, Brisbane and Sydney STTM hubs



\$1.3 billion

Value of all gas scheduled in the market (ex-ante)



40

Market participants

Gas Supply Hub

The Gas Supply Hub is a wholesale market that supports the efficient trade and movement of gas between regions, enhancing gas trading transparency and setting a reference price for participants. Gas Supply Hubs operate at Wallumbilla and Moomba.



1,917

Number of trades



16.4 PJ

Quantity of gas traded



\$147.6 million

Market value traded



16

Trading participants

Retail Markets

AEMO facilitates gas retail markets in New South Wales, the Australian Capital Territory, Queensland, South Australia, Victoria, and Western Australia. They promote competition between suppliers, enable end-users to choose their provider and facilitate customer transfers between retailers.



122,699

Annual number of new connections



993,715

Annual number of customers switching retailers



5.2 million

Gas connections

Australian Gas Markets

Victoria

AEMO has a unique role in Victoria. Aside from operating the wholesale and retail gas markets, AEMO is also responsible for operating the physical assets that make up the Victorian Declared Transmission System.

Victoria has the highest penetration of residential connections, leading to demand variations throughout the year. This can range from 250 TJ/d in summer up to 1,250 TJ/d in winter.

South Australia

Gas use in South Australia plays a large role in electricity generation. In 2018, gas-powered generation accounted for 62% of South Australia’s gas consumption.

Tasmania

Tasmania has the largest percentage of industrial gas consumption in the east coast of Australia. In 2018, 51% of the gas transported to Tasmania was consumed by the industrial sector.

Western Australia

Western Australia is Australia’s largest exporter of liquefied natural gas (LNG), producing more natural gas than any other state.

WA’s domestic gas policy requires LNG projects to reserve and actively market 15% of its gas for the domestic gas market. This is a distinct feature of the WA gas market.

Queensland

Queensland is the largest gas producing state on the east coast. In 2018, total gas consumption in Queensland was 1,380 PJ with 90% of this from the LNG sector.

Northern Territory

The recently completed Northern Gas Pipeline has now connected the Northern Territory to the east coast gas market near Mount Isa.

New South Wales

The largest sector for gas consumption in New South Wales is the industrial sector which makes up 48% of their total consumption.

Australian domestic gas consumption (excl. LNG)

