

# 2015 NATIONAL GAS FORECASTING REPORT

The 2015 National Gas Forecasting Report (NGFR) provides independent forecasts of annual gas consumption and maximum gas demand across eastern and south-eastern Australia's interconnected gas markets over a 20-year outlook period (to 2034–35). Although the report includes forecasts for low, medium and high gas demand scenarios, this infographic depicts only the short-term outlook (2015–20) and medium gas demand scenario.

## ABOUT AEMO

This infographic has been developed by the independent Australian Energy Market Operator (AEMO), using information (as at 31 October 2015) from the 2015 National Gas Forecasting Report.

AEMO plans, develops, and operates markets that are responsive to energy sector needs and support investment for the long-term benefit of Australian consumers.

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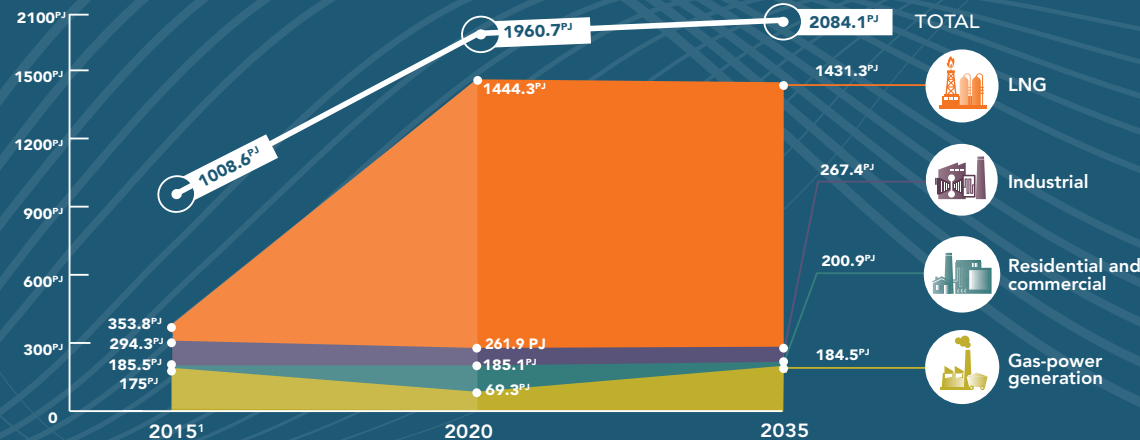
## THE BIG PICTURE

### ANNUAL CONSUMPTION

- The 2015 report highlights a transformation of eastern and south-eastern Australian interconnected gas markets over the next five years to 2020, following the ramp-up of gas consumption to supply liquefied natural gas (LNG) exports.
- Annual gas consumption is then forecast to remain relatively flat for all sectors over the rest of the outlook period to 2035.

<sup>1</sup> For 2015 data: residential, commercial and industrial consumption data is estimated on a weather-normalised basis, assuming long-run median weather outcomes; GPG data is calculated using actual meter data until October 2015, estimated thereafter; LNG data is estimated.

Total annual gas consumption by sector forecast to 2035 Petajoule (PJ)

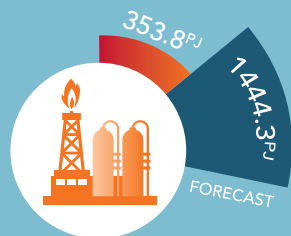


### MAXIMUM DEMAND

- Total maximum daily demand is forecast to rise rapidly over the next five years, as Queensland's LNG facilities ramp up production.
- Seasonality in LNG liquefaction efficiency is expected to move Queensland to a winter peak for the first time. As a result, all eastern and south-eastern states are forecast to experience annual maximum daily demand in winter.
- After 2020, maximum demand from the LNG, residential, commercial and industrial sectors is forecast to remain flat, but gas-powered generation (GPG) is forecast to increase as coal-fired generation availability reduces over time.

## GAS CONSUMPTION TRENDS IN THE SHORT TERM TO 2020

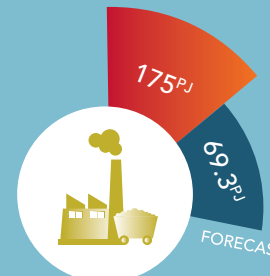
Forecast of gas consumption: 2015 (red), 2020 (blue)



**32.5%**  
AVERAGE ANNUAL GROWTH

**LNG GAS CONSUMPTION**

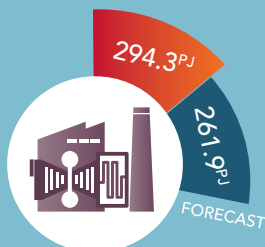
The start-up of Queensland's export LNG facilities is expected to more than double total gas consumption in eastern and south-eastern Australia, linking domestic wholesale gas prices to international markets and resulting in increased gas prices for domestic gas supplies.



**16.9%**  
AVERAGE ANNUAL GROWTH

**GAS POWER GENERATION GAS CONSUMPTION**

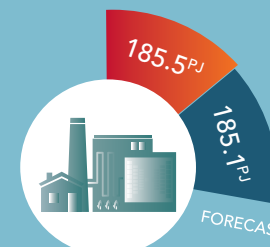
Gas consumption (and electricity production) by GPG is expected to reduce in the short term. Beyond five years, GPG gas consumption is forecast to rise to support increasing electricity consumption and to replace over 2,000 megawatts of coal-fired generation withdrawals.



**2.3%**  
AVERAGE ANNUAL GROWTH

**INDUSTRIAL GAS CONSUMPTION**

In the short term, growth in gas consumption from food, dairy and services, and generally improved business conditions for manufacturing, is likely to be offset by continued restructuring of industry away from gas-intensive manufacturing such as the automotive industry, ahead of an improved outlook over the longer term.



**<0.1%**  
AVERAGE ANNUAL GROWTH

**RESIDENTIAL AND COMMERCIAL GAS CONSUMPTION**

Improved energy efficiency of buildings and appliances, including gas to electrical appliance switching and a growing preference for living in apartments and multi-unit dwellings, is expected to contribute to residential and commercial consumption remaining flat, despite projected population increases.