

Energy Supply: Natural Gas

Description

This lever controls whether South Africa produces gas within the country.

Level 1

South Africa produces a small amount of its own natural gas requirement from the Mossel bay facility – most of which goes to the gas to liquids plant. South Africa imports gas from Mozambique to the Sasol facility, but this is capped at 240PJ per annum¹. No new gas production is assumed to take place.

Level 2

Gas production takes place in South Africa from conventional and unconventional sources starting in 2020. Initially 500PJ per annum are produced and this increases to 2880PJ per annum by 2030 and declining (due to resource depletion²) to 150PJ per annum by 2050.



Natural gas burns cleaner than coal. There are also added benefits in the form of efficiency gains – where by the natural gas is consumed at the location of need – as in cooking or process heating when compared with electricity generated from coal and transmitted through inefficient systems.

Image source: www.arabianoilandgas.com

1. The Gas equation, PWC, Jun 2012
2. Depletion theory, L. Roper, Virginia Polytechnic institute and state University, 1976