# **Electricity: Gas**

Total installed capacity of natural gas power plants in 2015 was 10.137GW with average 5.3GW available and produced 24.09 TWh, mainly due to constraints in natural gas supply and aging of some units. Gas power plants contributed 70.36% of grid electricity generation.

#### Level 1

Assumes that the capacity of 2015 level should operate at full capacity by rehabilitating the power plants with additional capacity for a total of 30.3 GW by 2050. This should produce 185.8 TWh per year.

## Level 2

Assumes that by 2050, a total capacity of 41.4 GW is achieved. This should produce 253.86 TWh per year.

#### Level 3

Level 3 assumes that by 2050, a capacity of 53.2GW is achieved which should produce 326.22 TWh per year.

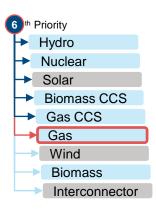
### Level 4

Assumes natural gas power plants capacity reaches 80.20GW by 2050 which should produce 491.79TWh per year.

# **Key Interaction**

Back up capacity for peak demand is often fuelled by gas.

Default Timing Start Year: 2025 End Year: 2050 **Electricity: Gas** Level Level Level Level Sub-Lever Units 2015 **Gas Capacity** GW 5.3 30.3 41.4 53.2 80.2 Gas Maximum Generation 600 500 400 Level 1 TWh/yr Level 2 300 Level 3 200 Level 4 100 2015 2050 2075 2100



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