

# 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

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Sub-Lever	Units	2015	Level 1	Level 2	Level 3	Level 4
Gas Capacity	GW	5.3	30.3	41.4	53.2	80.2

