

# Electricity: Gas

Total installed capacity of natural gas power plants in 2015 was 13.69 GW 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 80 GW by 2050. This should produce 617 TWh per year.

## Level 2

Assumes that by 2050, a total capacity of 50 GW is achieved. This should produce 386 TWh per year.

## Level 3

Level 3 assumes that by 2050, a capacity of 35 GW is achieved which should produce 270 TWh per year.

## Level 4

Assumes natural gas power plants capacity reaches 11 GW by 2050 which should produce 231 TWh per year.

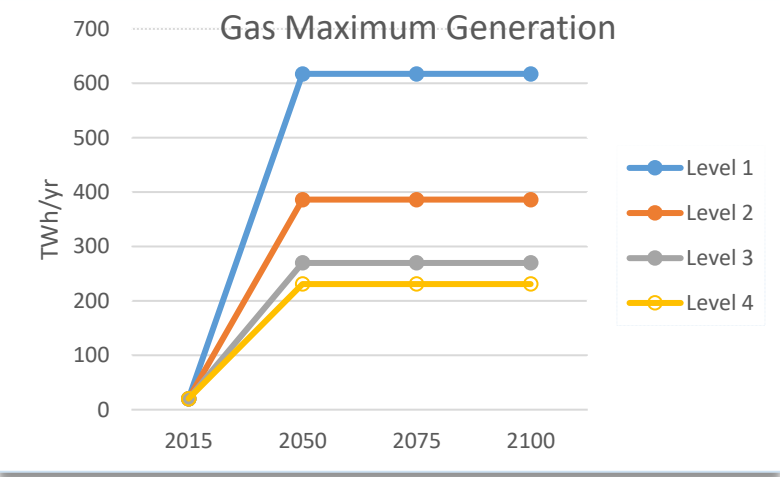
## Key Interaction

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

Default Timing Start Year: 2020 End Year: 2050

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| Sub-Lever    | Units | 2015 | Level 1 | Level 2 | Level 3 | Level 4 |
|--------------|-------|------|---------|---------|---------|---------|
| Gas Capacity | GW    | 5.3  | 80      | 50      | 35      | 11      |



- 6<sup>th</sup> Priority
- Hydro
  - Nuclear
  - Solar
  - Biomass CCS
  - Gas CCS
  - Gas
  - Wind
  - Biomass
  - Interconnector