

# Carbon Capture and Storage

## Fuel Mix

Carbon capture and storage refers to a process of capturing carbon dioxide from and storing it in suitable sites, from which it will not enter into atmosphere. This can provide solutions to reduce carbon emissions from fossil fuel based power plants. This lever provides choices to the users, for selecting different level of carbon capture and storage linked power plants. Impact of user's choices on various outputs like emission reduction and cost implications can be seen.

### Level 1

Level 1 assumes that CCS technology is completely based on coal and gas is not utilized for CCS at this stage.

### Level 2

In this scenario even gas based generation sees induction of CCS technology. The fuel split for coal and gas is 95% and 5%, respectively by 2050.

### Level 3

Level 3 assumes gas based generation sees more induction of CCS technology. The fuel split for coal and gas is 90% and 10%, respectively by 2050.

### Level 4

Level 4 is an highly optimistic scenario in which the fuel split for coal and gas is 85% and 15%, respectively by 2050.

