



The 500 MW coal-fired power plant (Unit-13) at Vindhyachal Super Thermal Power Station has seen the first carbon dioxide absorbed from the flue gas stream by [NTPC Limited](#) (VSTPS). The daily carbon dioxide capture capacity of this unit is twenty tonnes. The spread of carbon dioxide capture technologies and the greening of coal-fired power generation will be made possible by this endeavour.

In the same location, NTPC is also building a green hydrogen generation facility that will produce two tonnes of hydrogen daily using proton exchange membrane electrolyzers. Then, using a heterogeneous catalytic process, ten tonnes of green methanol per day will be produced from two tonnes of hydrogen per day and twenty tonnes of carbon dioxide extracted each day.

The [NTPC](#) Energy Technology Research Alliance (NETRA) planned, designed, engineered, and awarded the integrated carbon dioxide to methanol project, which was carried out by VSTPS Green Chemical Department in collaboration with [NTPC](#) Energy Technology Research Alliance (NETRA).

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