

Niti Aayog report on Carbon capture & storage

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In news— NITI Aayog has recently released a study report on 'Carbon Capture, Utilisation, and Storage (CCUS) Policy Framework and its Deployment Mechanism in India'.

Key highlights of the report-

- **The report explores the importance of Carbon Capture, Utilisation, and Storage as an emission reduction strategy to achieve deep decarbonization** from the hard-to-abate sectors.
- The report outlines broad level policy interventions needed across various sectors for its application.
- As, India has updated its NDC targets for achieving 50% of its total installed capacity from non-fossil-based energy sources, 45% reduction in emission intensity by 2030 and taking steps towards achieving Net Zero by 2070, the role of CCUS becomes important as reduction strategy to achieve decarbonization from the hard-to-abate sectors.
- It estimates that about 750 mtpa of carbon capture by 2050 can create employment opportunities of about 8-10 million on full time equivalent (FTE) basis in a phased manner.
- **The report indicates that CCUS can provide a wide variety of opportunities to convert the captured CO₂ to different value-added products like green urea, food and beverage** form application, building materials (concrete and aggregates), chemicals (methanol and ethanol), polymers (including bio-plastics) and enhanced oil recovery (EOR) with wide market opportunities in India, thus contributing substantially to a circular economy.

