



CLIENT:

NITI Aayog, Nodal Public Policy and Economic Development Agency, Government of India.

PROJECT DESCRIPTION:

Develop a policy framework and implementation roadmap to decarbonize India's power and hard-to-abate industrial sectors using CCUS pathways.



IMPACT

enhance CCUS.

 Seminal work that offers a policy and implementation roadmap for CCUS in India.

Identifies policy mechanisms, incentive structures,⊘ government support and funding options to

 Offers CCUS pathways that can result in a positive impact on GDP, employment, energy & materials security and import substitution.

FINDINGS FROM THE STUDY:

- CCUS enabled reduction in CO₂ emission by 2050: 30%, i.e. 750 mtpa.
- Anticipated positive impact on Indian GDP: \$100-150 billion over 30 years.

CLIENT OBJECTIVES

NITI Aayog, the GOI's apex policy think tank, selected Dastur Energy to study and prepare a framework for CCUS policies, financed through their research scheme.

SOLUTION DESCRIPTION

Dastur carried out a comprehensive study to formulate the policy framework and a viable economic model for implementing CCUS in India. The study included:

- An estimation of current and forecasted CO₂ emissions from key emitting sectors -power, steel, oil & gas refineries, cement, and fertilizers & chemicals.
- An overview of the techno-economics of carbon capture in each sector – most appropriate technology and tentative cost of capture in each.
- Evaluation of options, opportunities and costs for CO₂ disposal – utilization and storage.
- Role and roadmap for CCUS to contribute to the decarbonization targets of India.
- Policy framework, regulations, financial support & incentives, business models and institutional mechanisms for enabling commercial-scale CCUS.
- Financial options for the Government of India to fund CCUS projects in a budget neutral manner.
- \odot Action steps required to take CCUS forward in India.

Report Available at -

www.niti.gov.in/sites/default/files/2022-11/CCUS-Report.pdf



ABOUT DASTUR ENERGY

Dastur Energy Inc. is an Austin, Texas, based energy technology company specializing in conceptualization, design and development of commercial scale clean energy transition and carbon management solutions for the Power, Industrial and Government sectors. These solutions maximize ROI potential by leveraging existing assets, site level energy landscape, market models and government initiatives. Dastur Energy's offerings include – market analysis, technology options analysis, policy design, concept & feasibility studies, techno-economic analysis, integrated process design & engineering, technology licensing and project management from concept to commissioning.

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