

## CLIENT:

Leading global producer of Active Pharmaceutical Ingredient (API)

## PROJECT DESCRIPTION:

Feasibility study for installation of a CO<sub>2</sub>-based novel technology for production of CO<sub>2</sub> neutral APIs in India

## IMPACT

- ⊙ First mover in specialty chemicals in India with integrated capacity for the production of green chemicals.
- ⊙ Import reduction, export potential, and revenue generation from intermediate and by-product sales.
- ⊙ Technology for green APIs is ensured through utilization of CO<sub>2</sub> and green hydrogen.



## FINANCIAL METRICS:

- ⊙ Return on Investment > 85%
- ⊙ Project IRR > 50%

## CLIENT OBJECTIVES

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Feasibility of CO<sub>2</sub> neutral novel technology for production of APIs like Acetic acid, Acetic Anhydrite, DMA-HCl, Para Amino Phenol (PAP), and Dicyandiamide (DCDA) pharmaceutical production facility in India.

## SOLUTION DESCRIPTION

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The scope of a detailed techno-economic feasibility study includes -

- ⊙ Market assessment for targeted chemicals at the national and regional levels, considering demand-supply dynamics and pricing
- ⊙ Technical assessment of the production/ synthesis processes of the specialty chemicals
- ⊙ Utility sourcing, plant layouts, and logistics infrastructure
- ⊙ Financial feasibility assessment including phase-wise capital cost and revenue estimates, and sensitivity analysis
- ⊙ Implementation strategy in three phases from 2024 to 2027, detailing project configurations, production capacities, and intermediate product availability at suitable scale and price
- ⊙ CO<sub>2</sub> emissions footprint, environmental impact, and various mitigation measures and controls



## ABOUT DASTUR ENERGY

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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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For more details contact - [info@dasturenergy.com](mailto:info@dasturenergy.com)

[www.dasturenergy.com](http://www.dasturenergy.com)