

Case Study

A leading Japanese industrial conglomerate

Service(s) offered: Pre-Investment Advisory & Market Research

Sector/Industry: Renewable Energy



Hydrogen Energy Assessment for a Multinational Japanese Chemical Company

A Japanese industrial conglomerate dealing with the production of chemicals and materials approached Nexdigm to support them with a holistic and comprehensive market study concerning energy transition to Hydrogen (H₂) in India.

The client wanted to understand **India's current and future position regarding energy from H₂**, the pros and cons of adopting H₂ in India, along with the potential to embrace alternative technologies such as biofuel and Carbon Capture and Storage (CSS).

Solution

Nexdigm conducted a comprehensive market research study to understand the market overview of hydrogen energy along with the status of the adoption of other alternative fuels and technologies by India to reduce its carbon emissions.

The Nexdigm team identified key stakeholders and determined their contribution and role in the industry. We also conducted **industry mapping** (Government bodies and Institutions, Research Institutes, India Energy, Heavy Engineering Companies, and Start-ups) to provide a holistic understanding of the market.

We then collected information about government initiatives and industry collaborations to understand the **future of hydrogen energy in India**.

Our research showcased a number of interesting observations, namely:

- In terms of **carbon neutrality**, with energy demand projected to grow considerably over the next two decades, India is unlikely to achieve net-zero emissions by 2050
- In terms of **hydrogen demand**, fertilizer and refinery companies are the biggest consumers of hydrogen and make up a large chunk of the demand
- In terms of **renewable energy**, due to the expected adoption of green hydrogen, various clean technologies such as 'Electrolytic Processes' and 'Solar PV' will start to gain popularity in the Indian market
- In terms of **biodiesel**, the market remains nascent and informal with scattered domestic production at a minimal level

Over 10 interviews were conducted with industry experts, government bodies, key players in the hydrogen energy ecosystem, and other stakeholders.

Outcome

Our insights helped the client understand the current status of hydrogen energy in India and the possible future opportunities.

Our report also provided a holistic overview of the government initiatives, policies, and key stakeholders in the value chain more comprehensively which facilitated informed decision-making for the client.

For more information on this case study,
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our services resulted in tangible business
benefits:

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