

India Durable Carbon Dioxide Removal (Cdr) Demand Market Forecast 2030-2040

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Report description:

KEY FINDINGS

The India durable carbon dioxide removal (CDR) demand market is set to grow at a CAGR of 19.24% from 2030 to 2040, with the revenue expected to reach \$1344.03 million by the end of 2040. In terms of volume, the market is expected to progress with a CAGR of 20.28%, reaching 7.05 million tons by 2040.

MARKET INSIGHTS

The market's growth is largely driven by the increasing demand for carbon dioxide removal to manage residual CO2 emissions and the widespread adoption of durable CDR methods across various sectors, including services. Within the service sector, industries such as information technology, finance, and professional services are integrating CDR technologies as part of their sustainability initiatives. The use of durable carbon removal and storage methodologies is becoming more common as businesses focus on reducing their carbon footprint. Methods like direct air carbon capture and storage (DACCS) and biomass with carbon removal and storage (BiCRS) are being adopted to provide long-term solutions for carbon management.

In addition to the service sector's role in the durable carbon removal supply and demand, companies such as Tata Steel, NTPC Limited, and Larsen & Toubro (L&T) are also involved in deploying durable CDR solutions as part of their broader sustainability and emissions reduction strategies. The expansion of data centers and energy-intensive operations within the service industry has further contributed to the growing demand for durable CDR credits to offset emissions and comply with emerging carbon regulations.

Participation in voluntary and non-voluntary carbon markets is also becoming a key factor, with businesses exploring negative emissions technologies (NETs) to align with carbon reduction goals. While challenges such as high implementation costs and market complexity remain, the demand for durable CDR within India's service sector is anticipated to continue expanding, helping drive decarbonization efforts in the country.

SEGMENTATION ANALYSIS

The India durable carbon dioxide removal (CDR) demand market is segmented into sectors, which are further sub-categorized into consumer, industrial, mobility, manufacturing/technology and hardware, services, energy, digital, and healthcare.

In the manufacturing/technology and hardware sector, the demand for durable carbon dioxide removal (CDR) is linked to reducing emissions from production processes and supply chains. Companies producing electronics, machinery, and hardware are integrating CDR solutions to align with sustainability goals and comply with emission reduction regulations. The sector is exploring options like direct air capture (DAC) and carbon mineralization to offset emissions from energy-intensive manufacturing activities.

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Additionally, technology firms are incorporating CDR initiatives within their operations to offer carbon-neutral products and services, enhancing their environmental credentials.

COMPETITIVE INSIGHTS

Some of the top companies operating in the India durable carbon dioxide removal (CDR) demand market are Tata Steel, NTPC Limited, Larsen & Toubro (L&T), etc.

Tata Steel Ltd is a steel producer with integrated operations across mining, manufacturing, and marketing. The company is involved in raw material operations and iron-making, and it provides maintenance support services. Its product offerings include hot-rolled, cold-rolled, and galvanized steel, catering to industries such as automotive, construction, packaging, and engineering. Tata Steel operates manufacturing facilities in several countries, including India, Canada, the Netherlands, and the UK, with headquarters in Mumbai, India. As part of its sustainability strategy, the company also engages in carbon dioxide removal initiatives.

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