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The Global Market for Direct Air Capture (DAC) 2023-2033

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Abstracts

There is a growing market demand for clean technologies and products with reduced emissions. Direct Air Capture (DAC) is an emerging carbon dioxide removal strategy that uses advanced, mainly proprietary technology to capture and store or utilize carbon dioxide directly from the ambient air. Captured CO2 can be permanently stored in deep geological formations and depleted aquifers. Novel technologies can trap CO2 in rocks, via mineralization. Captured CO2 can also be used in a range of applications.

The ability to sell or convert CO2 into useful products provides a commercialization pathway for DAC, with products including:

- Concrete and Cement.
- Precursors for plastics, chemicals, feedstocks etc.
- Synthetic Fuels.
- Food processing.
- Enhanced oil recovery.

While the market is in its infancy, with a relatively small amount of DAC plants in operation (mainly in Europe, USA, Canada and Japan), the potential of these technologies will play a growing role in the carbon capture market. Companies are being incentivized to develop the technology with the US government offering $3.5 billion in grants.

Report contents include:

- Analysis of the overall market for Carbon Capture, Utilization and Storage (CCUS).
- Costs for DAC, current and targeted.
- Pros and cons of DAC.
- In-depth DAC technology analysis.
- Comparative analysis of DAC to other carbon capture tech.
- Commercialization and plants including production capacities.
- Market challenges.
- Key players analysis.
- Markets for CO2 captured by DAC.
- Profiles of 62 companies involved in Direct Air Capture (DAC). Companies profiled include AspiraDAC, Carbofex Oy, CarbonCapture Inc., Charm Industrial, Climeworks, Holocene, 44.01, Mission Zero Technologies, Noya, Occidental Petroleum Corp., and Removr.

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