

U.S. Carbon Dioxide Market Size, Share & Trends Analysis Report By Source (Hydrogen, Ethyl Alcohol, Ethylene Oxide, Substituted Natural Gas), By Application (Food & Beverages, Oil & Gas, Medical), And Segment Forecast, 2022 - 2030

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Abstracts

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U.S. Carbon Dioxide Market Growth & Trends

The U.S. carbon dioxide market size is expected to reach USD 6.59 billion by 2030, registering a CAGR of 8.4% over the forecast period, according to a new report by Grand View Research, Inc. Increasing usage of carbon dioxide for Enhanced Oil Recovery (EOR) in oil & gas plants is anticipated to result in the growth of the market. In terms of revenue, the hydrogen segment accounted for a significant share in 2021. The growth of this segment can be attributed to the presence of leading hydrogen-producing companies in the country that have CO₂ manufactured as a byproduct during hydrogen production.

Substitute Natural Gas (SNG) is expected to be one of the major sources of the production of CO₂ in the U.S. This is due to a rise in the discovery of natural gas reserves in the U.S. with the deployment of shale technology. The oil & gas application segment accounted for a significant share in 2021 owing to the application of carbon dioxide-based EOR in oil fields of the U.S. for efficient and effective oil production. Moreover, the usage of CO₂ in the food & beverages and medical industries is anticipated to increase in the U.S. over the forecast period.

The growth of this segment can be attributed to the presence of a large base of food

and beverage manufacturing facilities in the country, which is projected to expand further over the forecast period. The spread of COVID-19 hindered the growth of the market in 2020 and 2021 owing to the factors, such as the reduction in demand for CO₂ in the country owing to lockdowns. However, an increase in demand for CO₂ from the manufacturers of pharmaceuticals and essential commodities, such as fire safety products, has been witnessed in the U.S., as well as across the world.

U.S. Carbon Dioxide Market Report Highlights

In terms of revenue, the food & beverages application segment dominated the global market in 2021

The hydrogen source segment accounted for the second-largest share of the global market revenue in 2021

The growth of this segment can be attributed to the presence of leading hydrogen-producing companies in the country that have CO₂ manufactured as a byproduct

In terms of revenue, the SNG segment accounted for the maximum revenue share in 2021. SNG is derived from the gasification of coal and emits byproducts, such as CO₂, hydrogen, carbon monoxide, and methane

The rubber industry uses CO₂ to clean the rubber molds and to remove flash from rubber objects by tumbling them with crushed dry ice in a rotating drum

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