

The Path to Decarbonization in the United States

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ABSTRACT

In 2022, the United States emitted 6,343 million metric tons of CO₂e, marking a 3% decrease since 1990. The chemical sector is a significant contributor to these emissions, with nine key chemical production processes accounting for 92 million metric tons of CO₂e.

To address these emissions, several decarbonization tools are being put in place under the Industrial Decarbonization Roadmap, including efficient energy use, low-carbon fuels, hydrogen, and carbon capture and storage. Currently, 83% of the energy used in the U.S. comes from fossil sources, which produce carbon emissions.

Additionally, a recent EPA rule has been implemented to phase out the use of asbestos in the diaphragm method, with staggered transitions for affected facilities. This comprehensive approach aims to reduce greenhouse gas emissions and promote a more sustainable future.

Keywords:

Climate targets, decarbonization, asbestos