

Abstract for presentation at the 7th Conference on Carbon Dioxide as Feedstock for Fuels, Chemistry and Polymers, Cologne, Germany

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Title: The Global CO₂ Initiative at the University of Michigan

The Global CO₂ Initiative at the University of Michigan aims to reduce atmospheric CO₂ levels by 4 gigatons per year by 2030. We fund and conduct research to transform CO₂ into commercially successful products using technology assessment, technology development and commercialization. The Initiative will identify and assist with economics understanding and policy levers needed to speed progress of carbon-based product deployment, while gauging public perception of and interest in these products.

Currently funded efforts focus on standardizing life cycle assessment and techno-economic assessment for CO₂-based products, understanding market potential, and technical research on enhanced CO₂ capture capabilities, catalytic conversion of CO₂ to base chemicals, including the use of bio-based materials, and flexible concretes that utilize CO₂ through various mechanisms.

www.globalco2initiative.org