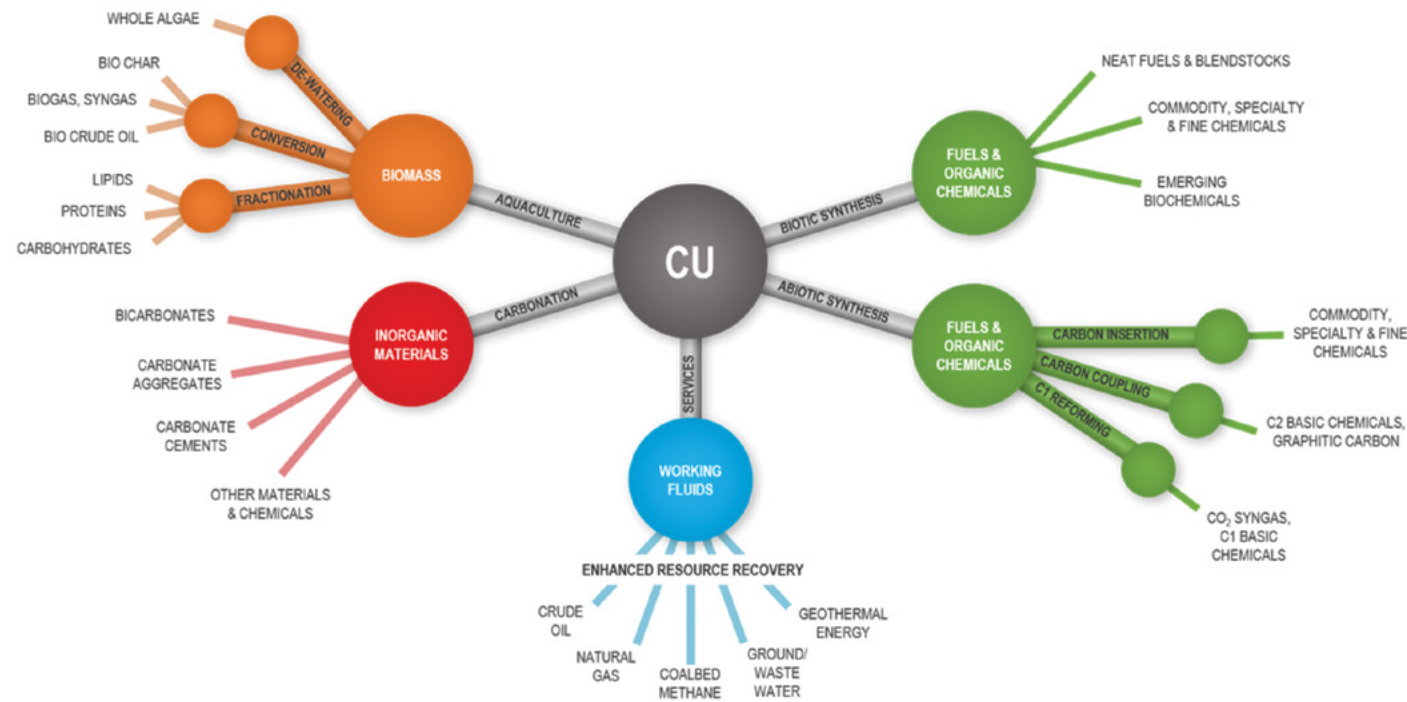


# NETL HELPS LEAD INTERNATIONAL CARBON CAPTURE AND UTILIZATION (CCU) ASSESSMENT HARMONIZATION GROUP

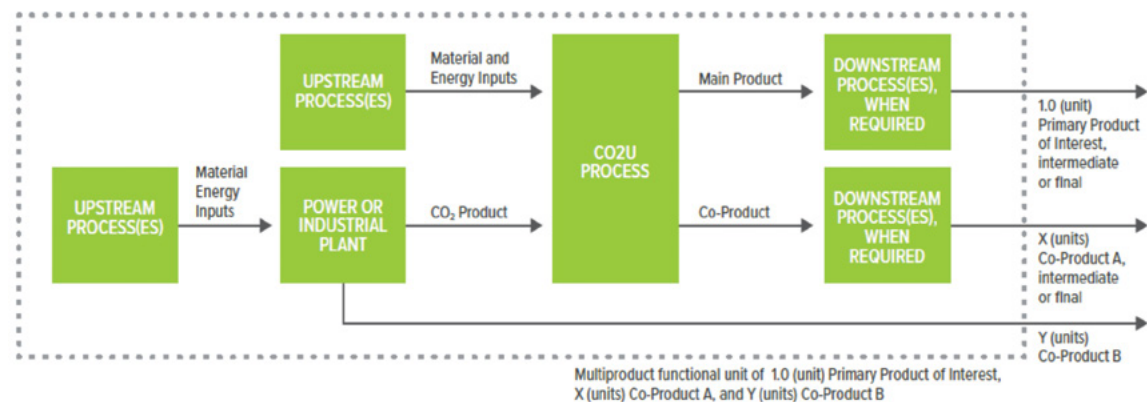
Aligning Carbon Utilization Life Cycle Analysis best practices between the European and U.S. research communities.

## THERE ARE MANY PATHWAYS FOR TURNING CO<sub>2</sub> INTO USEFUL PRODUCTS



## ENSURING A GLOBALLY CONSISTENT APPROACH TO ASSESSING LIFE CYCLE OF CARBON UTILIZATION PATHWAYS

NETL's Life Cycle Analysis competency, within the Research and Innovation Center, has teamed with the Global Carbon Utilization Initiative (GCI) led by the University of Michigan to lead a diverse group of 30 international researchers to **harmonize** the U.S. Department of Energy, Office of Fossil Energy **NETL LCA guidance** with the **GCI guidance** developed by the Technische Universität Berlin, RWTH Aachen University, The University of Sheffield, Institute for Advanced Sustainability Studies in Potsdam, and CO<sub>2</sub> Sciences Inc.



## GATHERING GLOBAL LEADERS IN LIFE CYCLE ANALYSIS AND TECHNO-ECONOMIC ANALYSIS TO ACHIEVE DOE MISSION

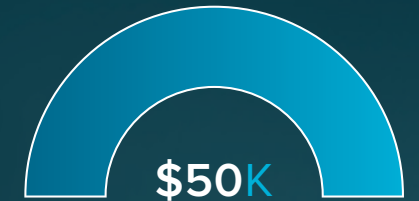
In addition to the aforementioned development organizations, the International CCU Assessment Harmonization Group includes participants from the Department of Energy's Office of Fossil Energy, Office of Energy Efficiency and Renewable Energy, Argonne National Laboratory, National Renewable Energy Laboratory, and the National Research Council of Canada.

Promoting research, development, and commercialization of carbon capture, utilization, and storage technologies requires assessing the environmental and economic opportunities and risks. Life cycle assessments and techno-economic assessments are means to quantify these opportunities and risks. **For consistent conduct and transparent reporting, a common framework is needed.** The mission of the International CCU Assessment Harmonization Group is to create this common framework by bringing together related efforts, analyzing differences, and seeking to eliminate them where possible. This effort will help enable the Department of Energy to achieve the mission of discovering and maturing technologies to ensure environmentally sustainable solutions for the use of captured carbon dioxide to reduce greenhouse gas emissions.



AWARD NUMBER  
**DE-FE0025912**

PROJECT BUDGET



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CORE COMPETENCIES

- PROGRAM EXECUTION and INTEGRATION
- SYSTEMS ENGINEERING and ANALYSIS

PARTNERS

