Carbon capture energy

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What is carbon management?

Carbon management is a term used to describe a variety of technologies and practices that reduce carbon dioxide emissions, including:

Why do we need carbon management?

Carbon management is necessary to help reduce current carbon emissions to net-zero by midcentury and ultimately remove legacy carbon dioxide emissions already in the atmosphere. However, carbon management is a complement to, not a replacement of, the urgent need for expanded and parallel efforts to reduce emissions through aggressive deployment of energy efficiency, renewables, nuclear power, clean hydrogen, and other clean energy and industrial technologies and measures.How is DOE advancing carbon management?

The United States will need to capture, transport, and permanently store hundreds of millions of tons of carbon dioxide each year in order to achieve a clean energy and industrial future by midcentury.

The work has already begun to meet this challenge. Over the past two decades, DOE has invested billions of dollars into more than a thousand carbon management projects across the country. These projects advance the research, development, demonstration, and commercial-scale deployment of carbon management technologies and infrastructure. Additionally, these efforts expand the United States" carbon management capabilities to reduce harmful carbon pollution from industrial and power sectors and address climate change. Where can I learn more about carbon management?

Work by the Intergovernmental Panel on Climate Change and broader scientific consensus is clear about the importance and necessity of carbon management for reaching climate goals.

However, DOE recognizes the need for accessible information grounded in science for the broader public, impacted stakeholders, and local communities to better understand carbon management technologies and represent themselves in project development conversations. DOE has created multiple resources in various formats to provide stakeholders with information to learn about the rapidly evolving field of carbon management. Check out some of these resources below.

Countries and regions making notable progress in CCUS include:

Momentum behind CCUS has been growing since around the start of 2018. Since February 2023 project developers have announced ambitions for 115 Mt CO2 per year of additional capture capacity 2030.1

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