

THE INFRASTRUCTURE INVESTMENT AND JOBS ACT:

Opportunities to Accelerate Deployment in Fossil Energy and Carbon Management Activities

The Infrastructure Investment and Jobs Act, also known as the Bipartisan Infrastructure Law, is a long-overdue investment in the United States' infrastructure, workers, families and competitiveness.

The infrastructure deal [includes more than \\$62 billion for the U.S. Department of Energy \(DOE\)](#) to deliver a more equitable clean energy future for the American people by investing in American manufacturing and workers; expanding access to energy efficiency and clean energy for families, communities and businesses; delivering reliable, clean and affordable power to more Americans; and building the technologies of tomorrow through clean energy demonstrations. It also specifically includes historic investments in carbon management, both to mitigate and remove carbon dioxide (CO₂) emissions.

CARBON MANAGEMENT FUNDING

As a part of the Bipartisan Infrastructure Law, DOE will deploy approximately \$6.5 billion in new carbon management funding over five years, largely for direct air capture and carbon dioxide storage. That includes the deployment of an additional \$11.5 billion of related DOE activities on carbon capture pilots and demonstrations, along with hydrogen hubs.

Investments from the Bipartisan Infrastructure Law to DOE will address the Office of Fossil Energy and Carbon Management's (FECM) priority/mission areas in the following ways:

DIRECT AIR CAPTURE (DAC)

Regional DAC Hubs: \$3.5 billion

For Fiscal Years (FYs) 2022-2026, DOE is allocated \$3.5 billion to lead the development of four regional DAC hubs. These hubs, which will each have the capacity to capture and store

and/or utilize one million metric tons of CO₂ per year, will be networks of DAC projects, potential CO₂ off-takers, transportation infrastructure and storage infrastructure—enhancing FECM's efforts to demonstrate durable CO₂ removal in support of America's goal of net-zero emissions by 2050. The hubs will be selected based on geographic diversity, scalability, jobs, cost and other considerations to advance just and sustainable carbon dioxide removal.

DAC Technology Prize Competition: \$115 million

In FY 2022, DOE is allocated funding for two prize competitions focused on DAC technologies: \$100 million for commercial technologies and \$15 million for pre-commercial technologies. These prizes will promote diverse approaches to DAC, a potentially critical contributor to the nascent and necessary carbon dioxide removal industry.

ENGINEERED STACK CAPTURE

Carbon Capture Technology Program: \$100 million

For FYs 2022-2026, DOE is allocated \$100 million for carbon capture technologies and a front-end engineering and design program for CO₂ transport infrastructure required to enable carbon capture, utilization and storage deployment. This funding will support FECM's efforts to develop technologies for carbon capture across a diverse range of CO₂ sources.

CARBON DIOXIDE UTILIZATION AND STORAGE

Carbon Storage Validation and Testing: \$2.5 billion

For FYs 2022-2026, DOE is allocated \$2.5 billion to develop new or expanded large-scale commercial carbon sequestration projects and supporting transport infrastructure. These projects will prioritize commercial capacity development and the ability to support storage from multiple carbon capture facilities—enhancing FECM's efforts to ensure long-term reliable storage for captured CO₂. Commercial CO₂ storage is critical both for CO₂ mitigation and CO₂ removal.

Carbon Utilization Program: \$310 million

For FYs 2022-2026, DOE is allocated \$310 million for the Carbon Utilization Program, which will be granted to entities to procure and use commercial or industrial products that utilize CO₂ in a manner resulting in a product with significantly lower greenhouse gas emissions than alternatives. This funding supports FECM's mission to lower greenhouse gases in the supply chains in enabling lower greenhouse gas supply chains as well as in supporting technologies to productively use CO₂ for decarbonization.

ADDITIONAL CARBON MANAGEMENT FUNDING

The Bipartisan Infrastructure Law authorizes substantial carbon management funding to other DOE offices. As a part of the whole-of-government approach to achieving net-zero emissions by 2050, FECM will support these research and development efforts in parallel. A summary of the additional funding is included below.

The [newly established Office of Clean Energy Demonstrations](#) is allocated \$3.5 billion for carbon capture demonstrations and large pilots and \$8 billion for hydrogen hubs, including at least one utilizing fossil fuels with carbon management; and

The [DOE Loan Programs Office](#) and FECM will coordinate the Carbon Dioxide Transportation Infrastructure Finance and Innovation Program Account, which is allocated \$2.1 billion to finance CO₂ transportation.

STAKEHOLDER ENGAGEMENT

Through the funding granted by the Bipartisan Infrastructure Law, the United States will be able to accelerate carbon management innovation and position itself as a leader in research, manufacturing and demonstration. Equally important though is pursuing this innovation in an equitable, sustainable way that promotes energy, economic and environmental justice. DOE will work to meaningfully engage with local communities and a wide array of stakeholders—including environmental and climate justice organizations, tribal nations, labor groups, industry and academia—as it pursues these carbon management technology areas to realize the nation's net-zero future.

Visit [DOE's website](#) for more information about the Bipartisan Infrastructure Law. ■