

Building a Clean Energy and Industrial Economy and the Supporting Role of the U.S. Department of Energy's Office of Fossil Energy and Carbon Management

INTRODUCTION

The U.S. Department of Energy's (DOE's) [Office of Fossil Energy and Carbon Management](#) (FECM) is dedicated to minimizing the environmental and climate impacts of fossil fuels and industrial processes while working to achieve net-zero emissions across the U.S. economy. In line with this mission, FECM developed the "Midwest Regional Report:

Building a Clean Energy and Industrial Economy and the Supporting Role of the U.S. Department of Energy's Office of Fossil Energy and Carbon Management."

The Midwest region, as defined in this report, includes **Illinois, Indiana, Michigan, Missouri, and Wisconsin**. It draws on the region's extensive manufacturing and transportation landscape to highlight opportunities for the Midwest's development as it relates to the carbon management industry and critical minerals production and processing. Additionally, in addressing the region's unique industry, energy mix, and energy activities, this report identifies priority areas for the Midwest and aligns them with FECM's research, development, and demonstration portfolio to curate relevant solutions.

KEY FINDINGS – The Midwest Regional Report highlights several key findings. For example, there is a significant opportunity for industrial carbon capture and storage given the high-quality geological storage resources near many industrial facilities. Additionally, given the Midwest's extensive manufacturing base and logistics infrastructure, carbon management presents an opportunity for companies



involved in the manufacture and distribution of products to reduce emissions and develop new low carbon products. There is also the potential to build a new industry of critical mineral recovery, processing, and refining, find new uses for coal wastes that would otherwise be discarded, and help remediate legacy ash and mine waste where it remains an environmental problem in the region.

FECM SUPPORT – As outlined throughout this report, FECM's focus areas and portfolio of technologies are well-aligned with the Midwest's energy and industrial mix, local infrastructure, and resources. These efforts will help the region engage communities, create new jobs, build new supply chains, and invest in supporting university and private sector research and development and innovation. Further, through DOE's [Community Benefit Plans](#) and [Community Benefit Agreements](#), FECM illustrates how the design and scope of a project can maximize economic, environmental, and societal benefits for communities in the region, contributing to project success and growth.

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The Midwest Regional Report is available for download on FECM's website: energy.gov/FECM/reports-and-studies.

The Midwest Regional Report is one of six regional reports that highlight resource sustainability and decarbonization solutions in fossil energy-producing and industrial regions. Given the rapidly evolving market, technology, and policy environment, the regional reports are intended to be "living documents" and will be updated as the outlook on each region evolves. Please note these reports and regional decarbonization workshops do not represent DOE policy or strategy, but rather are a representation of DOE's current understanding based on a synthesis of available facts.

FECM welcomes input and feedback on content for each of the reports. Please direct all inquiries and input to FECMRegionalReport@hq.doe.gov. Input and feedback should not include business-sensitive information, trade secrets, proprietary, or otherwise confidential information. Please note that input and feedback provided is subject to the Freedom of Information Act.

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