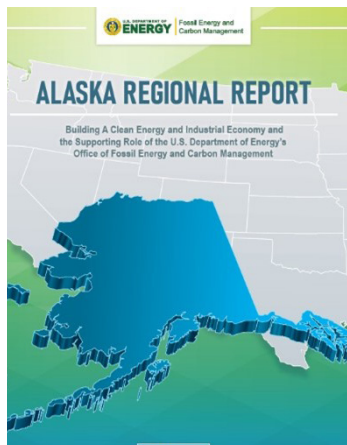




# Building a Clean Energy and Industrial Economy and the Supporting Role of the U.S. Department of Energy's Office of Fossil Energy and Carbon Management

## 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 “**Alaska 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.**”



This report delves into the decarbonization opportunities and challenges specific to Alaska, leveraging information about the state's strategic location and abundant energy and natural resources. Additionally, drawing from Alaska's energy plans and climate strategies, this report identifies priority areas for the state and aligns them with FECM's research, development, and demonstration portfolio to curate relevant solutions.

**KEY FINDINGS** – The Alaska Regional Report highlights several key findings. For example, Alaska's significant carbon dioxide (CO<sub>2</sub>) storage potential, established energy trade, and proximity to Asia could be leveraged to import CO<sub>2</sub> and provide storage services to other markets. Additionally, as the fourth largest producer of natural gas in the United States (but with only 10% of that gas actually marketed),

international trade and hydrogen/ammonia production could present opportunities for the stranded natural gas in the North Slope. Moreover, since Alaska is home to 49 of the 50 critical minerals, the state has a unique opportunity to play a key role in establishing domestic critical minerals supply chains, drawing on the potential of its many hard rock mines, current and historic mining waste streams, and extensive coal resources.

**FECM SUPPORT** – As detailed in the report, FECM's focus areas and portfolio of technologies are well-aligned with Alaska's energy mix, local infrastructure, and resources. These efforts will help Alaska engage local communities, create jobs, build new supply chains and industry, and invest in supporting university 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 state, contributing to project success and growth.

## DOWNLOAD THE REPORT AND SHARE YOUR THOUGHTS

The Alaska Regional Report is available for download on FECM's website: [energy.gov/FECM/reports-and-studies](https://energy.gov/FECM/reports-and-studies).

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](mailto: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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