

# **THE PLAINS CO<sub>2</sub> REDUCTION (PCOR) PARTNERSHIP: ONGOING CARBON MANAGEMENT ACTIVITIES IN THE INTERIOR PLAINS OF NORTH AMERICA**

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## **ABSTRACT**

The Plains CO<sub>2</sub> Reduction (PCOR) Partnership is one of seven regional partnerships competitively awarded by the U.S. Department of Energy National Energy Technology Laboratory as part of a national plan to mitigate greenhouse gas emissions. The PCOR Partnership region covers an area of over 1.4 million square miles in the central interior of North America and includes all or part of nine U.S. states and four Canadian provinces. Ongoing activities are intended to demonstrate that CO<sub>2</sub> capture, storage, and transportation can be achieved safely, permanently, and economically at a large scale and include two commercial-scale demonstration tests. The first demonstration involves monitoring, verification, and accounting support for the injection of CO<sub>2</sub> captured from one of the largest gas-processing plants in North America into a saline formation in British Columbia, Canada. The second demonstration will inject CO<sub>2</sub> in the Powder River Basin in southeastern Montana for the dual purpose of CO<sub>2</sub> storage and enhanced oil recovery (EOR). The PCOR Partnership's efforts will support its commercial partner with the integration of EOR operations and effective CO<sub>2</sub> monitoring and verification, ultimately documenting the permanence of underground CO<sub>2</sub> storage. The ultimate goal is to demonstrate the efficacy of combined EOR and CO<sub>2</sub> storage operations.