Addressing Carbon Capture, Utilization, and Storage

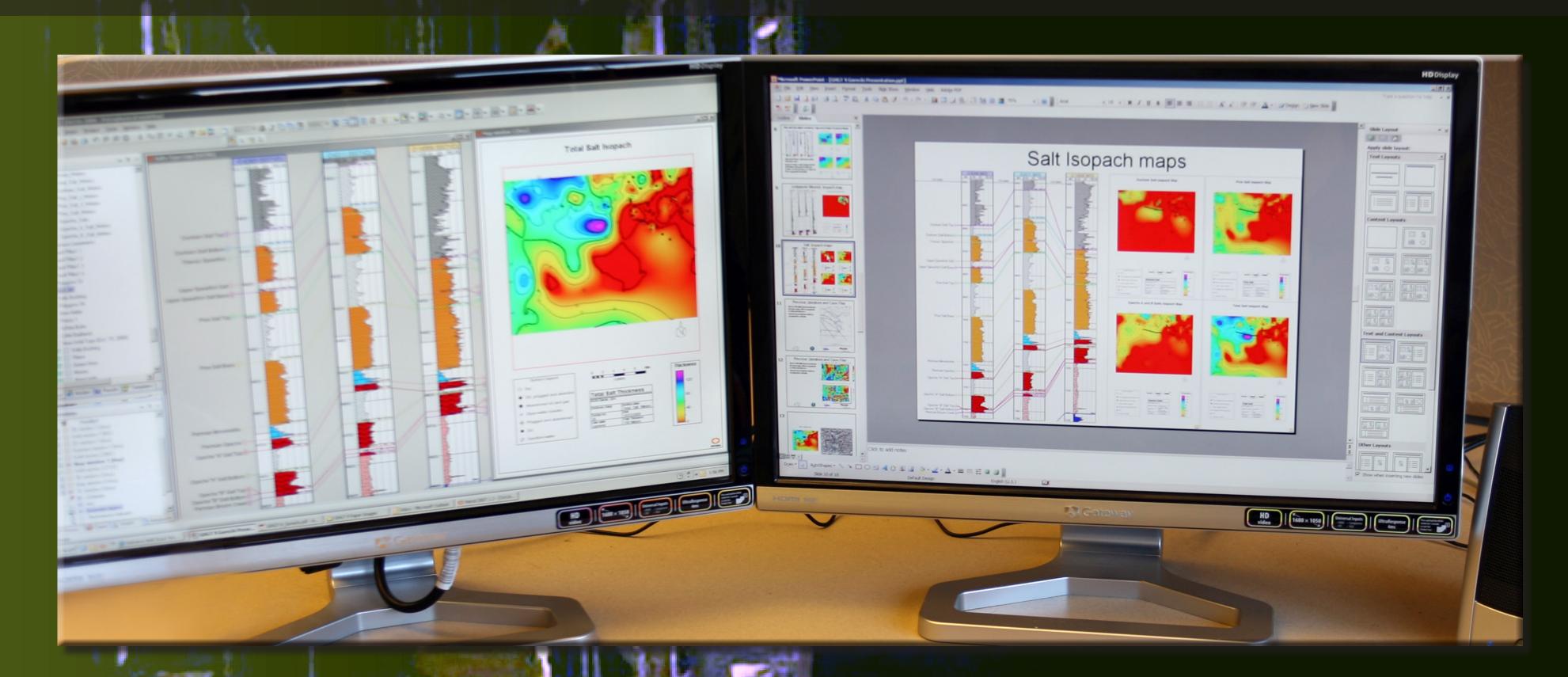
ACROSS THE CENTRAL INTERIOR OF NORTH AMERICA

The PCOR Partnership is one of seven regional partnerships established by the U.S. Department of Energy National Energy Technology Laboratory to assess and develop carbon capture and storage (CCS) opportunities. The PCOR Partnership is teaming with industrial partners to conduct two commercial-scale (> 1 million ton/year) CCS demonstrations in its region. The sources of CO₂ in both demonstrations are natural gas-processing facilities. These commercial-scale demonstrations are designed to establish the technical and economic efficacy of CCS in the region, and injections are planned to begin between 2012 and 2014 for both projects.

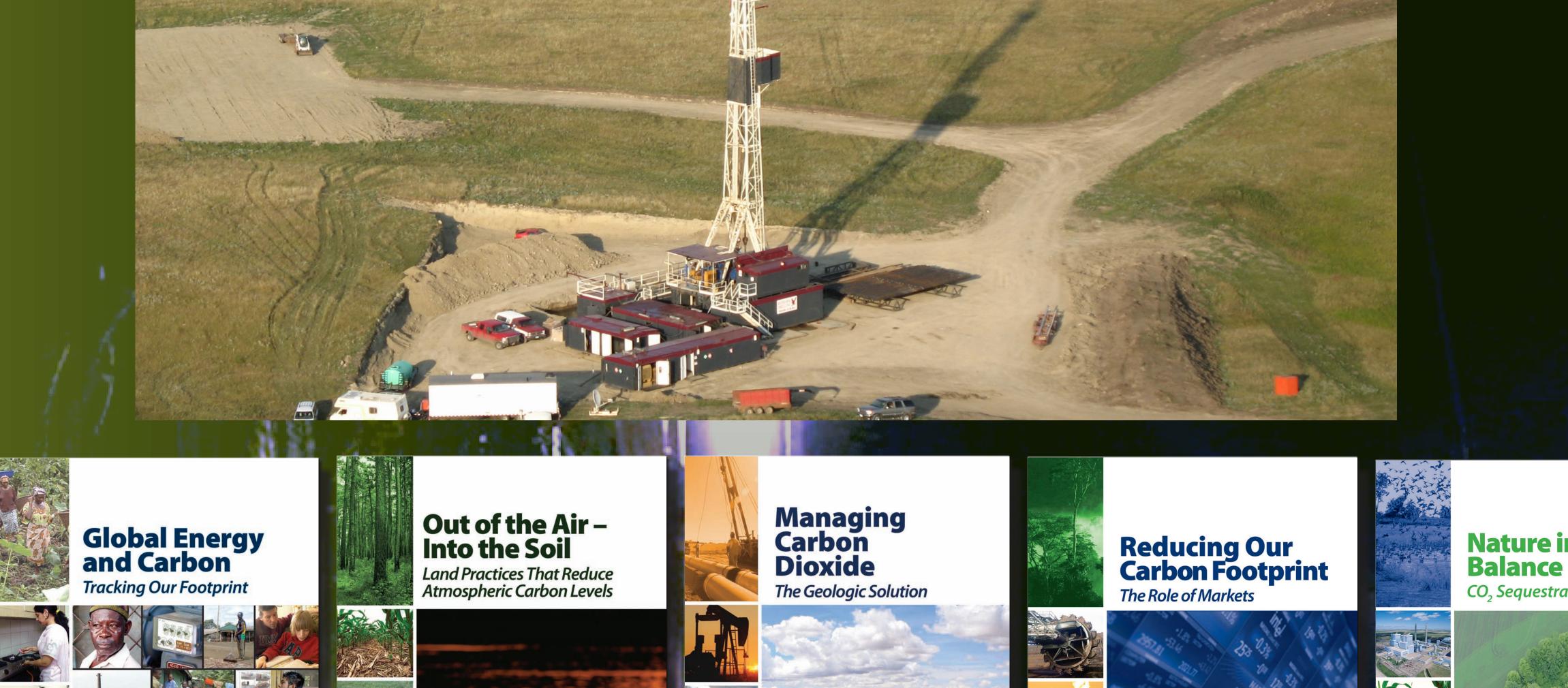
- 1) The Bell Creek Integrated CO₂ EOR and Storage Project is being conducted in the Bell Creek oil field in southeastern Montana and will provide insight regarding the impact of CO₂-based EOR on oil production and successful CO₂ storage within a sandstone reservoir in the Cretaceous Muddy Formation.
- 2) The Fort Nelson CCS Feasibility Project is exploring the potential of permanently storing up to 2 million tons of sour CO₂ (mixture of CO₂ and hydrogen sulfide [H₂S]) a year in a saline formation. The sour CO₂ will be captured from one of the largest gas-processing plants in North America and compressed and transported nearly 9 miles by pipeline to the target injection location. The target zone is in the carbonates of the Devonian-age Elk Point Formation at a depth of >7200 feet.

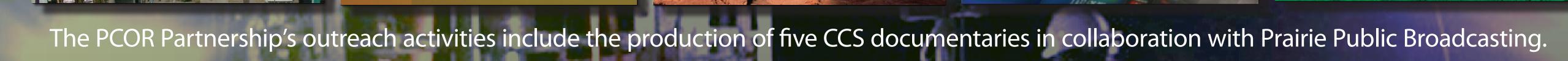
Another significant effort is the collaboration with Alberta Innovates Technology Futures (AITF) on a binational project to characterize and assess the CO₂ storage capacity of the basal saline system that extends across the greater Williston Basin area of the United States and Canada.





The PCOR
Partnership is active
in the development
of reservoir models
for CCS.









PCOR PARTNERSHIP 2003 - PRESENT



