



Plains CO₂ Reduction (PCOR) Partnership
Energy & Environmental Research Center (EERC)

TECHNICAL ADVISORY BOARD MEETING SCHEDULED

Plains CO₂ Reduction (PCOR) Partnership Phase III Task 13 – Milestone M36

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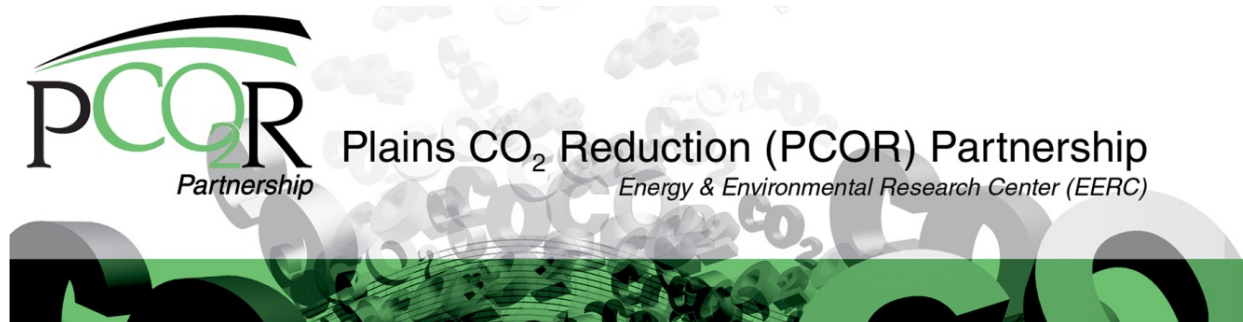
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TECHNICAL ADVISORY BOARD MEETING SCHEDULED

BACKGROUND

The Plains CO₂ Reduction (PCOR) Partnership is one of seven Regional Carbon Sequestration Partnerships (RCSPs) competitively awarded by the U.S. Department of Energy (DOE) National Energy Technology Laboratory (NETL) in 2003 as part of a national plan to reduce greenhouse gas emission intensity. The PCOR Partnership is led by the Energy & Environmental Research Center (EERC) at the University of North Dakota and includes stakeholders from the public and private sectors. The PCOR Partnership region includes all or part of nine U.S. states and four Canadian provinces.

Phase III, the development phase (2007–2018), extends the characterization (Phase I) and validation (Phase II) phases. Currently, the Phase III efforts of the PCOR Partnership include a large-volume demonstration test in the United States (the Bell Creek project). The demonstration test focuses on injecting commercial-scale volumes of carbon dioxide (CO₂) into deep geologic formations for CO₂ storage. Many different aspects of carbon capture and storage (CCS) will be evaluated during the demonstration, ranging from CO₂ capture, compression, and pipeline transport to injection; recycle; and monitoring, verification, and accounting.

DOE required that an independent technical review be undertaken at the outset of the RCSP Phase III Program. DOE approached the IEA Greenhouse Gas R&D Programme (IEAGHG) for this task because of its extensive experience with CO₂ injection projects worldwide. To review the RCSP Initiative and its Phase III activities, IEAGHG appointed an independent international panel of experts. The experts were drawn from onshore CO₂ injection projects under way in Canada, Europe, and Australia. This initial review was conducted in March 2008.

A second independent review of the program was conducted March 14–17, 2011, at the Hilton Hotel in Arlington, Virginia. IEAGHG again organized this review, and the ten-member panel comprised experts from Canada, the United Kingdom, Germany, Australia, Japan, and the United States. The PCOR Partnership gave an hour-long presentation, followed by 90 minutes of questions and answers, on March 15, 2011.

Following the presentation and question-and-answer session, the expert panel discussed its assessment of the PCOR Partnership's efforts and compiled comments and recommendations. Based on these discussions and the written comments provided, IEAGHG prepared an evaluation

for each project reviewed. The expert panel's evaluation of the PCOR Partnership's projects was received in June 2011. A fundamental component of the NETL expert review process is that the recommendations identified by the expert panel are required to be addressed.

The panel's recommendations for the PCOR Partnership included the "appointment of scientific and/or operational advisory boards or committees." When formal responses to the recommendations were submitted in August 2011, the EERC decided to establish a single-panel advisory board to provide scientific guidance on the entire PCOR Partnership Program, including its demonstration sites.

In September 2011, DOE issued a contract modification, No. 21, authorizing the creation of an advisory board under Statement of Project Objectives (SOPO) Task 13 – Project Management. The SOPO was amended to include the following provisions:

Subtask 13.2 – Advisory Board Meetings:

Subtask 13.2.1 – Select Advisory Board Members. An advisory board, consisting of no fewer than five non-EERC advisors, will be selected from among knowledgeable persons in the fields of CCS and enhanced oil recovery (EOR). The advisors will have no term requirements or limits, but their service will be dependent upon availability.

Subtask 13.2.2 – Hold Advisory Board Meetings. Advisory board meetings will be scheduled to occur prior to the annual project meeting and will take into consideration the availability of selected advisors and, when feasible, be held in conjunction with another carbon management event or conference. The recommendations of the advisory board will be reported at the successive annual project meeting.

A new milestone (M), M36, was created for Program Years 5–10 (2012–2017) to help track the planning of PCOR Partnership Technical Advisory Board (TAB)-related activities.

Creation of the PCOR Partnership Technical Advisory Board

The PCOR Partnership TAB was created in 2012 with various CCS and EOR experts as follows:

- Bill Jackson, BillyJack Consulting, Inc. (Chair)
- Stefan Bachu, Alberta Innovates – Technology Futures
- Ray Hattenbach, Blue Strategies
- Lynn Helms, North Dakota Industrial Commission
- Mike Jones, Lignite Energy Council
- Steve Melzer, Melzer Consulting
- Tom Olle, Lonestar Resources, Inc.
- Steve Whittaker, CSIRO (Commonwealth Scientific and Industrial Research Organization)
- Neil Wildgust, Global CCS Institute

CURRENT PCOR PARTNERSHIP TAB MEMBERSHIP

The following are the current PCOR Partnership TAB members:

- Bill Jackson, Industry Expert (Chair)
- Stefan Bachu, Alberta Innovates – Technology Futures
- Ray Hattenbach, Industry Expert
- Lynn Helms, North Dakota Industrial Commission
- Mike Jones, Lignite Energy Council
- Steve Melzer, Melzer Consulting
- Tom Olle, Lonestar Resources, Inc.
- Jim Erdle, Computer Modelling Group, Ltd.
- Stacey Dahl, Minnkota Power Cooperative

Past changes to TAB membership include the following:

- In 2015, Dr. Steve Whittaker accepted a position with the Illinois State Geological Society, causing a potential conflict of interest with participating on the TAB. Dr. Whittaker was replaced by Dr. Jim Erdle of Computer Modelling Group, Ltd.
- In 2016, Mr. Neil Wildgust became a staff member of the EERC. Ms. Stacey Dahl of Minnkota Power Cooperative replaced Mr. Wildgust.

TAB MEETING SCHEDULED

The seventh annual TAB meeting is scheduled to be held April 9–11, 2018, in Miami, Florida. While the agenda is still under development, it is anticipated that several topics will be presented on and discussed, including updates on the Bell Creek and Aquistore projects, best practices manuals, development of deliverables and other products, and future work.

ADDITIONAL TAB ACTIVITY

Two face-to-face TAB meetings were held in 2017. First, the sixth annual TAB meeting was held May 22–24, 2017, in San Francisco, California. Seven of the nine TAB members were in attendance (Mr. Tom Olle and Mr. Lynn Helms were not able to attend), and topics discussed included a recap of the RCSP Program Peer Review; updates on outreach, Bell Creek, and Aquistore activities; and development of best practices manuals and other products. The second TAB activity in 2017 was a one and a half-hour meeting held October 24, 2017, (in conjunction with the PCOR Partnership Annual Membership Meeting). Five TAB members were able to attend the meeting, and discussion topics included PCOR Partnership best practices manuals, upcoming deliverables and journal articles, and future work.