

Plains CO₂ Reduction (PCOR) Partnership

Energy & Environmental Research Center (EERC)



PUBLIC SITE UPDATES

Plains CO₂ Reduction (PCOR) Partnership Phase III Task 2 – Deliverable D13

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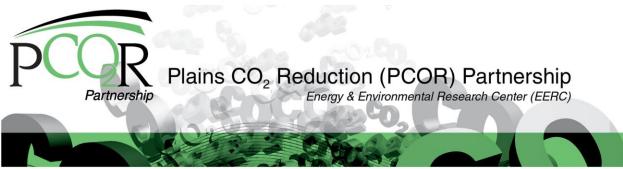
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PUBLIC SITE UPDATES

EXECUTIVE SUMMARY

This report summarizes the 2016 contractual update to the Plains CO₂ Reduction (PCOR) Partnership public Web site for the period of July 1, 2014, through June 30, 2016. The central focus of this D13 consisted of an updated look to the Web site. This work features a black background, larger text, print-friendly pages, and shorter names on the left navigation for a more user-friendly experience. To make the public Web site more search-friendly, search engine optimization techniques were implemented in new and existing PDFs. In addition, several new Web pages were added, including Technical Publications, Technical Posters, Permanent Downhole Monitoring, and Outreach Posters. Significant content and/or appearance modifications were made to nine existing Web pages, the Home page being the most pronounced. Minimal updates were made to eleven other pages. A new section called Household Energy and Carbon Footprint replaced the Reduce Your Carbon Footprint page. All changes were approved piecemeal throughout the reporting period. Thus, this report does not include a request for approval of any draft changes. The PCOR Partnership public Web site has been online since early 2004, and the next contractual update is due in January 2018.



INTRODUCTION

The U.S. Department of Energy (DOE) Office of Fossil Energy National Energy Technology Laboratory's Regional Carbon Sequestration Partnership (RCSP) Program requires that each regional partnership have a public Web site to inform and educate the general public regarding sequestration in general and regional RCSP activities. The Plains CO₂ Reduction (PCOR) Partnership's public Web site has been live since the second quarter of 2004, and the PCOR Partnership outreach team is continuously striving to keep the public Web site content up to date, characterize the attributes of Web site use, and provide content in a valuable and understandable format to the general public. The PCOR Partnership is led by the Energy & Environmental Research Center (EERC) at the University of North Dakota. The PCOR Partnership public Web site team members include Dan Daly (Outreach and Education task leader), Charlene Crocker, and Janet Crossland. The Web site update was supported by the Programming, Communications, and Graphics groups at the EERC as well as other PCOR Partnership personnel. The most recent Web site update was provided July 31, 2014.

This report comprises activities completed and approved in batches throughout the period of July 1, 2014, through June 30, 2016. Work on the Web site was implemented in four areas as follows:

- Site improvements
- Search engine optimization
- New Web pages
- Content updates for existing Web pages

SITE IMPROVEMENTS

During the reporting period, Web site improvements comprised both behind the scenes functional improvements and visual changes to the pages. The latter included a new Web site appearance featuring a black background, larger text, print-friendly pages, and revisions to the left navigation menu for a more streamline look. Several new Web pages were added, including Technical Publications, Technical Posters, Permanent Downhole Monitoring, and Outreach Posters. Significant content and/or appearance modifications were made to nine existing Web pages, including the Home page, Meet the PCOR Partnership Team, Greenhouse Effect, Land Resources, Regulations and Permitting, CO₂ Sequestration Projects, Resources, News Archives, Documentaries, and the Site Map page. Eleven additional Web pages received minor updates: About the Partnership; Become a Partner; PCOR Partnership Partners; Climate, CO₂,

Sequestration; Regional Storage Potential; Fact Sheets; Video Clip Library; Links; Educators; Contact Us; and the Request Information form. All of these changes were approved by the DOE National Energy Technology Laboratory (NETL) program manager piecemeal through the update period in order to keep the site as current as possible. The date when changes were added to the live site are noted in the information that follows.

SEARCH ENGINE OPTIMIZATION

During the previous D13 reporting period, a major effort was undertaken to develop and maintain a consistent tracking protocol for the public Web site as part of a standard operating procedure (SOP). The SOP was updated during this reporting period and is attached as Appendix A. The implementation of Google Analytics (GA) enables collection of background data for the public Web site and continues to deliver useful information on Web site activity (e.g., number of visitors, content being viewed, how visitors navigate through the Web site, etc.). The next step in fine-tuning the public Web site is applying search engine optimization (SEO) techniques, which create opportunities to increase Web site traffic.

SEO is a broad term used to describe all methods used to ensure a Web site and its contents are visible in search engine results. "SEO encompasses both the technical and creative elements required to improve rankings, drive traffic, and increase awareness in search engines" (moz.com/beginners-guide-to-seo/growing-popularity-and-links). As the majority of the PCOR Partnership public Web site traffic originates from search engines (averaging 84% over the last 2 years), it is important to optimize search traffic with properly implemented SEO techniques to assist visitors in finding the content they are seeking. The goal is for our Web site content to rank high (top 10) in search engine results. SEO must be executed correctly in order for the search engines to produce results that include content from the PCOR Partnership public Web site on the first page of search results.

The Task 2 team performed an overall assessment of the public Web site to evaluate where SEO would be the most beneficial. The results indicated that the content performing the poorest (low number of visits) was the Portable Document Format (PDF) files. Several steps were implemented to improve visibility of PCOR Partnership Web PDF documents in search engine results:

- **PDF file names were amended.** All PDFs were renamed to include the key words in the title. These words helped describe the content of the PDF. Because the name changed, so too did the URL. Search engines display the page URL as part of the search results, and this can aid in directing visitors to the Web site. Hyphens were inserted between words so that search engines would recognize and search each word, and file name length was limited to a max of 70 characters.
- **Metadata were added to all PDFs.** Each PDF document contains properties (i.e., searchable elements such keywords) which provide additional information for search engines to catalog.

• **PDF content was converted to text-based.** This procedure allows search engines to index the content and make it searchable.

A section detailing the protocol to add SEO features to public Web site PDFs has been incorporated into the updated SOP in Appendix A.

NEW WEB PAGES

Technical Publications

A new section has been added to the Web site. The Technical Publications section provides public access to technical materials on terrestrial and geologic sequestration prepared by the PCOR Partnership. The new landing page shown in Figure 1 provides access to two new Web pages: Permanent Downhole Monitoring and Technical Posters; and one existing Web page: Scientific Topical Reports (renamed Technical Reports). This landing page went live on December 1, 2015.



Figure 1. New Technical Publications page. Existing link: <u>undeerc.org/PCOR/technicalpublications/.</u>

Permanent Downhole Monitoring (PDM) Page

The PDM Web page was originally created for the Partners Only Web site published on February 4, 2014. The Web page, shown in Figure 2, was modified and added to the public Web site on October 10, 2014. The page provides a brief description, a link to the 20-minute video short *Installing a Casing-Conveyed Permanent Downhole Monitoring System*, and a link to the Web site request form for requesting a free copy of the PDM video. The video was also added to the Video Clip Library under the Topics tab Oil Production and under the By Clip Title tab. The DVD of the video short was added to the list of items to request on the Request Information page. The page was added to the Technical Publications section on December 1, 2015.



Figure 2. New PDM Web page. Existing link: www.undeerc.org/pcor/Documentary/PDM.aspx.

Technical Posters Page

The Technical Posters page shown in Figure 3 offers viewing and downloading access to 68 PCOR Partnership posters presented at scientific conferences and meetings since 2010. Images of the posters are arranged into 18 categories using a collapsible accordion interface, which reveals three posters at a time when a category is selected (single left clicked). Poster titles and conference information are viewable when the cursor hovers over the image. Posters are organized in each slider from newest to oldest. This page went live and was added to the Technical Publications landing page on February 23, 2016.



Figure 3. New *Technical Posters* page. Existing link: <u>undeerc.org/pcor/technicalpublications/TechnicalPosters.aspx</u>.

Outreach Posters Page

The new Outreach Posters Web page shown in Figure 4 provides direct access to the general PCOR Partnership poster developed for public outreach (D24) as well as the three project-specific general audience posters (D25 Bell Creek, D26 Fort Nelson, and D95 Aquistore). The general poster, "Reducing Greenhouse Gas Emissions: Energy with a Smaller Carbon Footprint," was not previously available on the Web site whereas the project-specific posters are concurrently located on their respective CO_2 Sequestration Project Web pages. All four posters can be viewed online and downloaded from the Outreach Poster page, which is accessed via the left navigation under the Resources landing page. This page went live on December 1, 2015.



Figure 4. New Outreach Posters Web page. Existing link: undeerc.org/pcor/NewsAndPubs/posters.aspx.

Household Energy and Carbon Footprint Section

During this period, the Carbon Footprint page was replaced by a new section of five pages relating energy consumption to household carbon footprint. The section was developed with funding from the North Dakota Department of Commerce (NDDC) Office of Renewable Energy and Energy Efficiency and DOE funding through the NDDC Division of Community Services. A brief description of the new pages is provided below. A print-friendly version of the Web content is included in Appendix B. The Household Energy and Carbon Footprint Web pages went live on December 3, 2015, and were linked to the PCOR Partnership Web site home page on December 11, 2015.

The section comprises a landing page introducing the topic of energy and carbon footprint, three pages focused on household energy (i.e., Household Electricity, Home Fuels, and Gasoline and Diesel), and one page focused on calculating the household carbon footprint from energy. Presented in Figure 5, the landing page contains three video clips from the PCOR Partnership documentary Global Energy and Carbon - Tracking Our Footprint as well as links to the other pages of the section. Each page focused on household energy contains text and graphics to move the user along the energy and carbon pathway from energy source, through processing or generation, to transportation, and finally to the household consumption and associated carbon footprint. The calculator page comprises four sections. First, the Example Household tab allows the comparison of a sample footprint and energy use for a sample household. The Estimate Your Carbon Footprint tab allows users to calculate their own household footprint using one or more of three existing calculators. The What You Can Do tab gives suggestions for actions to reduce emissions and provides annotated links for regional sources of additional information. The What Society Can Do tab addresses the fact that households exist within a larger construct of practices, products, and infrastructure that restricts what they can accomplish on their own with respect to carbon stewardship.

Information and data from DOE Energy Information Administration and other resources are cited, with links where appropriate. GA script was embedded within each page, video, and PDF to track visits and other visitor metrics.



Figure 5. Landing page for the new Household Energy and Carbon section of the Web site. Existing link: undeerc.org/pcor/household-energy/.

CONTENT UPDATES FOR WEB PAGES

Home Page

Several elements comprise the changes to the home page (Figure 6). In addition to the new black background, the home page features less text, more images, and more user interactivity. Large photos and buttons have been added to guide users to new Web pages or pages the Outreach Team would like to improve Web traffic.

The PCOR Partnership CO₂ Sequestration Projects map has been updated and now features prominently at the top of the page. Below the left navigation are image-based links to the *PCOR Partnership Atlas*, 4th edition revised and the 2016 PCOR Partnership annual meeting (which is updated yearly). The most recent PCOR Partnership documentary *Global Energy and Carbon: Tracking Our Footprint* is featured immediately below the projects map. Clicking on the image opens an overlaid page containing video playing controls and the documentary. To increase Web traffic to existing Web pages, four shortcut buttons were added at the bottom right of the page. Web pages currently linked to these buttons include: Fact Sheets, Video Clip Library, What Is CO₂ Sequestration? and Technical Publications. Changes implemented on the existing public Web site home page went live on December 1, 2015.



Figure 6. Updated home page. Existing link: www.undeerc.org/PCOR.

About the Partnership Page

Updates to About the Partnership page, shown in Figure 7 included updating the Phase III fact sheet under "More on Phase III" and renaming the Press Releases and Articles page to News Archives. Updates were implemented on May 16, 2016, and December 1, 2015, respectively.



Figure 7. Updated About the Partnership page. Existing link: www.undeerc.org/PCOR/About/.

Become a Partner Page

Updates to the Become a Partner page shown in Figure 8 included updating the PCOR Partnership Annual Meeting photo and updating job titles. Both updates were implemented on December 1, 2015.

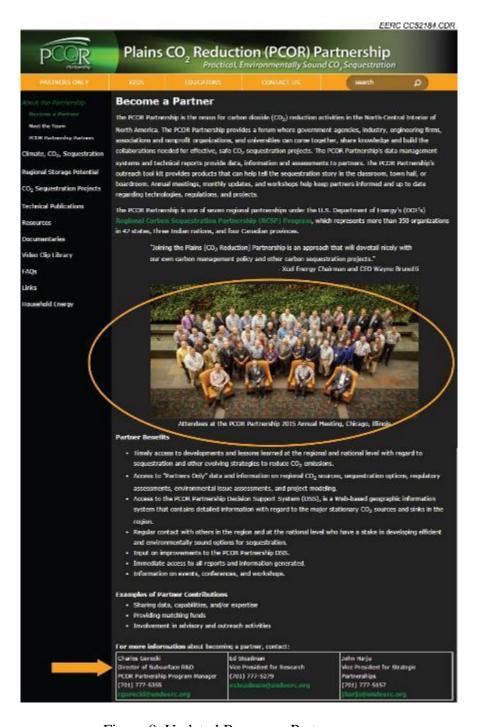


Figure 8. Updated Become a Partner page. Existing link: www.undeerc.org/pcor/About/BecomeAPartner.aspx.

Meet the PCOR Partnership Team Page

Several updates occurred to the Meet the PCOR Partnership Team Web page shown in Figure 9. The entire Validation Projects section was removed because all projects have been completed. Key personnel changes occurred in several sections: Large-Scale Commercial Projects, Permitting and Risk Management, and Partner Relations. These changes were completed and went live on May 26, 2015. Subsequent to organization-wide changes at the EERC, job titles for all personnel on this page were updated on December 1, 2015.

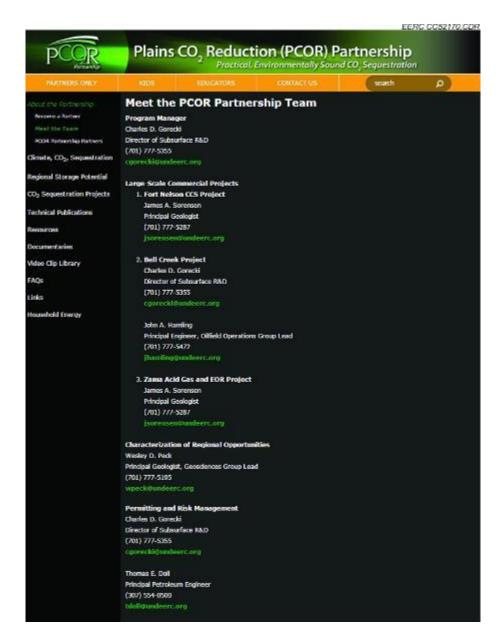


Figure 9. Updated Meet the PCOR Partnership Team page. Existing link: http://undeerc.org/PCOR/About/Team.aspx.



Figure 9 (continued). Updated Meet the PCOR Partnership Team page. Existing link: http://undeerc.org/PCOR/About/Team.aspx.

PCOR Partnership Partners Page

Since the last D13 update, eight new partners have been added to the partner's page. Listed alphabetically, they are Ballantyne Oil, LLC; BillyJack Consulting Inc.; The CETER Group; GE Global Research; MBI Energy Services; Petro Harvester Oil & Gas, LLC; Red Trail Energy LLC; and Tundra Oil & Gas. These updates are shown in Figure 10 below. This page was last updated on June 1, 2016.

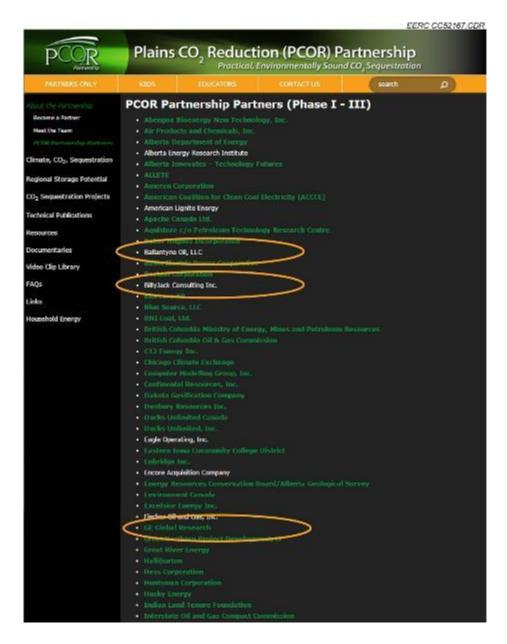


Figure 10. New partners added to the PCOR Partnership Partners page. Existing link: undeerc.org/PCOR/About/Partners.aspx.



Figure 10 (continued). New partners added to the PCOR Partnership Partners page. Existing link: <u>undeerc.org/PCOR/About/Partners.aspx</u>.

Climate, CO₂, Sequestration Page

Originally named Carbon Sequestration, Climate Change, and CO₂, this landing page was renamed Climate, CO₂, Sequestration to simplify the navigation menu. Several links were eliminated for the current version of the page, shown in Figure 11. These include an external link to the NETL video short *An Introduction to Carbon Capture and Sequestration* that has been removed from the NETL Web site (removed on May 26, 2015) and pages that are now accessible from the left navigation menu following: Carbon Capture and Storage (CCS) and What Is CO₂ Sequestration? Lastly, the CO₂ Wedges–Cutting Human CO₂ Emissions Down to Size bullet/hyperlink was renamed to Options to Reduce CO₂ for user clarity. These changes went live on December 1, 2015.

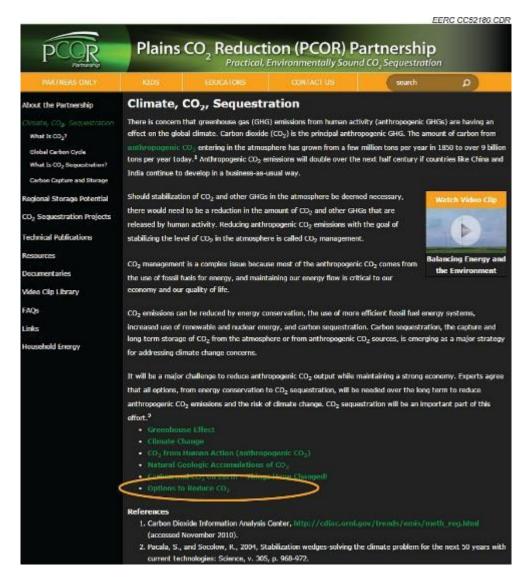


Figure 11. Updated Climate, CO₂, Sequestration page. Existing link: <u>undeerc.org/PCOR/Sequestration/</u>.

Greenhouse Effect Page

The Greenhouse Effect page, shown in Figure 12, underwent several changes. Content was updated and simplified for Web users and the reference was updated. Changes went live on December 1, 2015.



Figure 12. Content updated in Greenhouse Effect page. Existing link: <u>undeerc.org/PCOR/Sequestration/greenhouseeffect.aspx</u>.

Regional Storage Potential Page

The Web page CO₂ and Storage in the Region was renamed Regional Storage Potential to better describe page content. Presented in Figure 13, this change went live on December 1, 2015.



Figure 13. Renamed Regional Storage Potential page. Existing link: <u>undeerc.org/PCOR/Region/.</u>

Land Resources Page

Content on the Land Resources page, shown in Figure 14, was updated and simplified. The image size was also increased to improve readability and visual interest. The changes went live on December 1, 2015.



Figure 14. Updated Land Resources page. Existing link: undeerc.org/pcor/Region/Terrestrial/LandResources.aspx.

Regulations and Permitting Page

The Web page Regulating and Permitting was renamed Regulations and Permitting. Presented in Figure 15, the page includes updated text and PDF elements. Under the Federal Regulations section, both the United States and Canada PDFs were updated. A new interactive map (in the same style as the home page project map) allows Web users to hover over a state or province to see current CCS regulations. A PDF of the state and province CCS regulations was created for user convenience. Updates for this page went live on December 1, 2015.



Figure 15. Updated Regulations and Permitting page. Existing link: undeerc.org/pcor/Region/Regulation.aspx.

CO₂ Sequestration Projects Pages

The CO₂ Sequestration Projects page is the main landing page for all carbon capture, utilization, and storage (CCUS) projects in the PCOR Partnership region. This page has undergone several updates. The most noticeable change is the new, more simplistic map displayed prominently across the page shown in Figure 16. The individual projects are presented in larger font and easier to identify. Text has been scaled back and simplified, allowing the map to become the main focus. The map is still interactive, with 1) hover boxes containing brief descriptions of each project, 2) links to each separate project page for active projects, and 3) links to project fact sheets or Regional Technology Implementation Plan (RTIP) executive summaries for the Phase II validation projects. Figure 17 shows all of the project hover boxes, which open separately on top of the existing page. All text for the hovers has been updated. These updates went live on December 1, 2015.

Two Phase II project fact sheets replaced the project RTIP executive summaries. The updated Lignite Phase II field validation fact sheet, "CO₂ Sequestration Test in a Deep, Unminable Lignite Seam," replaced the Lignite RTIP executive summary link on the projects map on October 1, 2014. The updated fact sheet for Northwest McGregor "CO₂ Huff 'n' Puff Validation Test" replaced the McGregor RTIP executive summary link on the projects map on June 30, 2016.

The pipeline map shown in Figure 18 on the Bell Creek Integrated EOR and CO₂ Storage Project page was updated to reflect CO₂ source additions from the LaBarge Field extending the CO₂ pipeline. The updated "Bell Creek Integrated CO₂ EOR and Storage Project" fact sheet replaced a previous version at the bottom of the Web page (current as of June 2014), and the Bell Creek poster "CO₂ Emissions Go to Work to Produce More Oil" was updated and replaced on May 26, 2015.

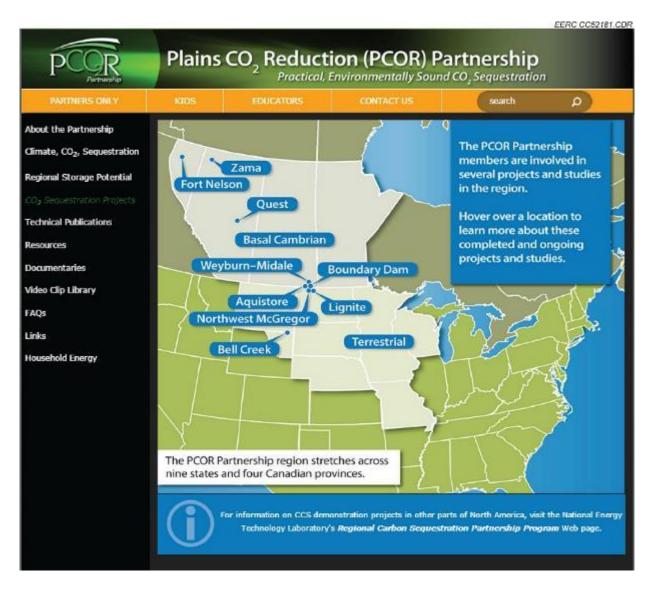


Figure 16. Updated CO₂ Sequestration Projects landing page. Existing link: undeerc.org/PCOR/CO2SequestrationProjects/.

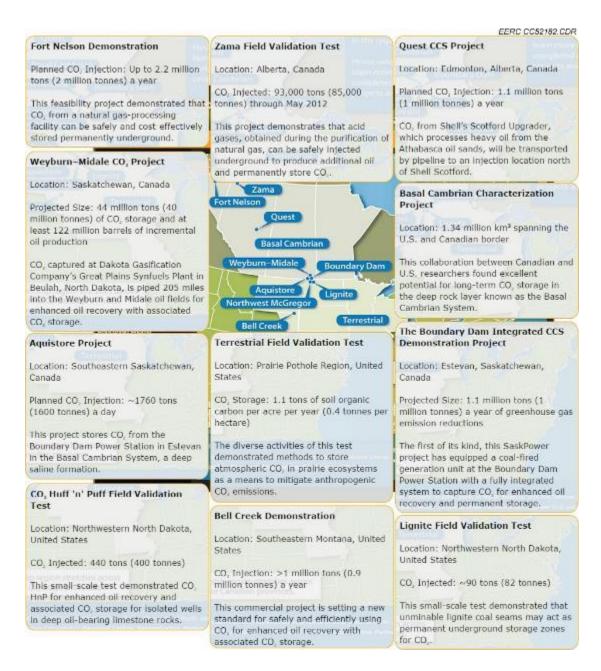


Figure 17. Project information boxes that pop up when the cursor hovers over project titles on the landing page (Figure 19).

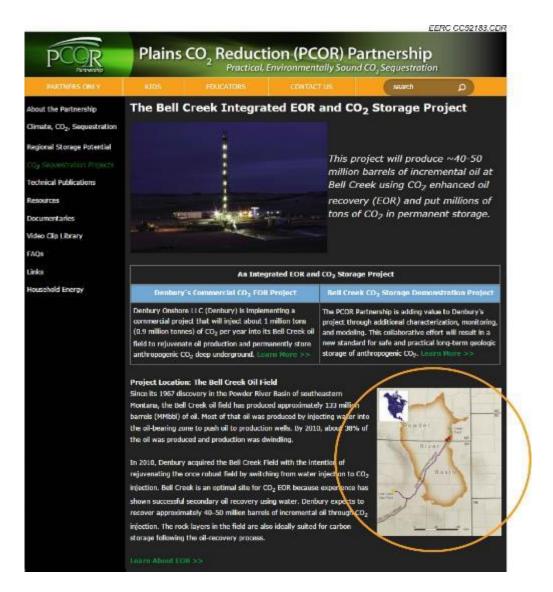


Figure 18. Updated map on the Bell Creek Integrated EOR and CO₂ Storage Project Web page. Existing link: <u>undeerc.org/PCOR/CO2SequestrationProjects/BellCreek.aspx</u>.

Resources Page

The News and Publications page was renamed Resources. Presented in Figure 19, the page content was updated to reflect changes made within this section, such as the renaming of press articles to news archives and the inclusion of posters developed for general audiences (see Outreach Posters page above). Changes to this page went live on December 1, 2015.



Figure 19. Updated Resources page.

Existing link: http://www.undeerc.org/pcor/NewsAndPubs/.

Fact Sheets Page

The Fact Sheets page, shown in Figure 20, was reorganized chronologically from newest to oldest in each category. Several fact sheets were replaced with more up-to-date information: "CO₂ Huff n Puff Validation Test" (uploaded on June 30, 2016), NETL's "Plains CO₂ Reduction (PCOR) Partnership – Development Phase Large-Scale Field Projects" (uploaded on June 30, 2016), the PCOR Partnership Phase III general fact sheet "PCOR Partnership Demonstrating CO₂ Storage in the Northern Great Plains" (uploaded on May 16, 2016), the "Bell Creek CO₂ EOR and Storage Project" (uploaded on May 26, 2015), "Long-Term Protection of Freshwater Resources Following CO₂ Storage" (uploaded on May 26, 2015), and "CO₂ Sequestration Test in a Deep, Unminable Lignite Seam" (uploaded on October 1, 2014).

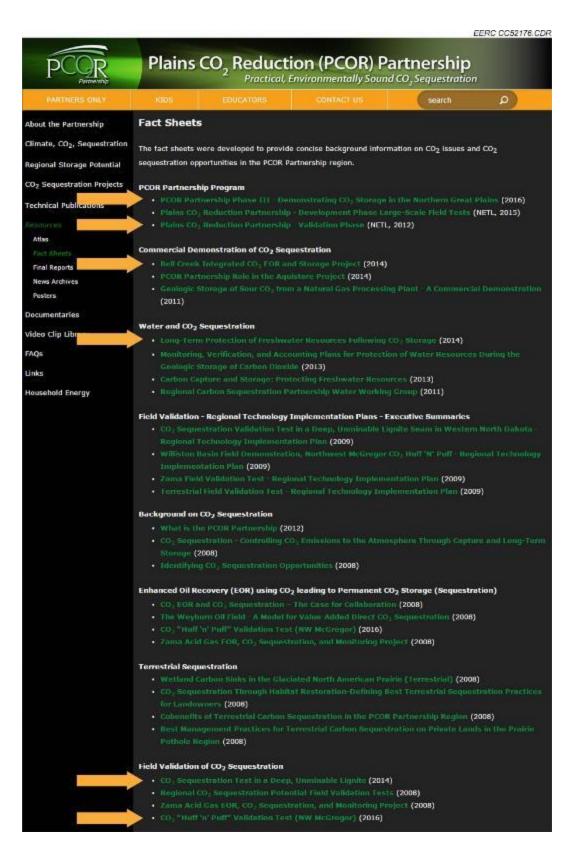


Figure 20. Updated Fact Sheets page.

Existing link: www.undeerc.org/pcor/NewsAndPubs/factsheets.aspx.

News Archives Page

The Press Releases and Articles Web page was renamed in the left navigation to News Archives to more accurately reflect the page's contents. The All Press Releases Web page (which was linked to the News Archives page) and News Archives were consolidated and all information is now on News Archives, as shown in Figure 21. One new press release was added to this page on October 20, 2015. All changes went live on December 1, 2015.

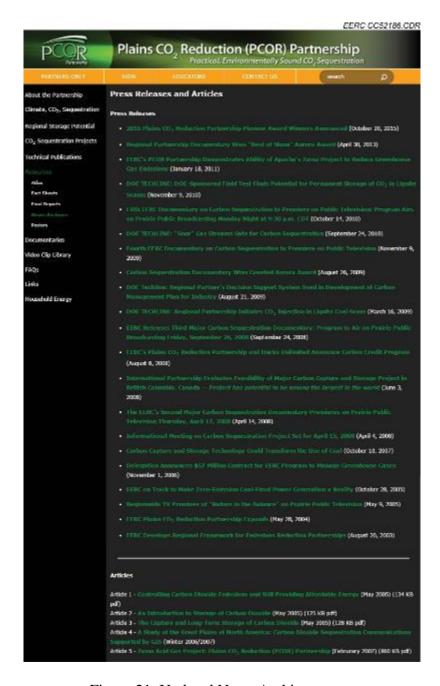


Figure 21. Updated News Archives page. Existing link: undeerc.org/pcor/NewsAndPubs/PressReleases.aspx.

Video Clip Library Page

One new video short called *Installing a Casing-Conveyed Permanent Downhole Monitoring System* was added under the Topics tab entitled Oil Production (see Figure 22). This addition went live on May 16, 2016.

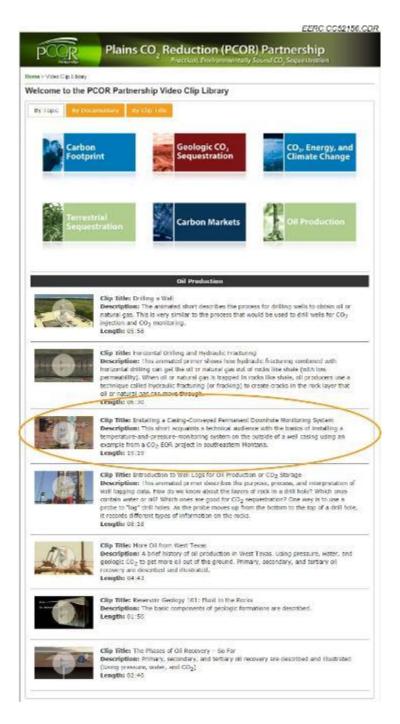


Figure 22. New video short added to the Video Clip Library. Existing link: <u>undeerc.org/PCOR/Video-Clip-Library/</u>.

Documentaries Page

The Documentaries page shown in Figure 23 was updated with the new background and modified text to yield a more streamlined and consistent look. The left navigation was also added to provide Web consistency and assist users to navigate to other areas of the site. The updated page went live on December 1, 2015.



Figure 23. New look for Documentaries page. Existing link: undeerc.org/pcor/Documentary/.

Request Information Page

The list of items on the Request Information page shown in Figure 24 now includes the latest DVD, *Installing a Casing-Conveyed Permanent Downhole Monitoring System* (2013, DVD). This update went live on May 26, 2015.

PARTNERS ONLY	KIDS	EDUCATORS	CONTACT US	search	۵		
out the Partnership	Request Ir	formation					
imate, CO ₂ , Sequestration	Please fill in the form, select the items you would like to receive, and click on "Submit Request". You will receive a e-mail when the materials are sent.						
gional Storage Potential							
O ₂ Sequestration Projects	Prefix: Full Name:	● Mr. ● Ms. ● D	r.				
echnical Publications	Organization: Title:						
esources	Street Address:	_					
ocumentaries	City:						
ideo Clip Library	"State: "Zip Code:	AA •					
AQs	"Country:	United States	•				
inks	Phone: E-mail Address:	-					
lousehold Energy	Required Field	5 7:	**				
	Requests:						
	I would like to receive the following PCOR Partnership products:						
	■ PCOP Partnership Regional Atlas, 4th Edition, Revised (2013)						
			nent Downhole Monitoring S	ystem (2013, DVD)	>		
			Our Footprint (2010, DVD)				
			gic Solution (2009, DVD) Practices that Reduce Atmos	nhade Carbon (2008, DVI	N.		
			Role of Markets (2008, DVD		"		
		Balance: CO ₂ Sequestr					
	Please send me mor	e information on:					
	■ Becoming a F	COR Partnership partne	er				
	Comments or Additi	onal instructions:					

Figure 24. Updated Request Information page. Existing link: <u>undeerc.org/pcor/Documentary/requestinfo.aspx</u>.

Links Page

A new link was added to the Regional Carbon Sequestration Partnerships section of the Links page shown in Figure 25. The section, now providing a link to the NETL RCSP Water Working Group, was updated on May 26, 2015.



Figure 25. Updated Links page. Existing link: www.undeerc.org/pcor/Links/.

Educators Web Page

The Educators Web page shown in Figure 26 is updated as needed to inform educators about events where the PCOR Partnership presents. The page was last updated on June 30, 2016.



Figure 26. Updated Educators Web page. Existing link: http://www.undeerc.org/PCOR/Educators/.

Contact Us Page

Updates to the Contact Us Web page shown in Figure 27 included updating key contact personnel and job titles on May 26, 2015.



Figure 27. Updated Contact Us page. Existing Link: <u>undeerc.org/PCOR/ContactUs/</u>.

Site Map

Throughout this period, updates to the Site Map page reflect changes made to Web page names and/or their order, as well as the addition of new pages and/or new sections to the public Web site. New additions shown in Figure 28 include the Technical Publications section, the Household Energy and Carbon Footprint section, and the Posters (Outreach) Web page under the Resources section.

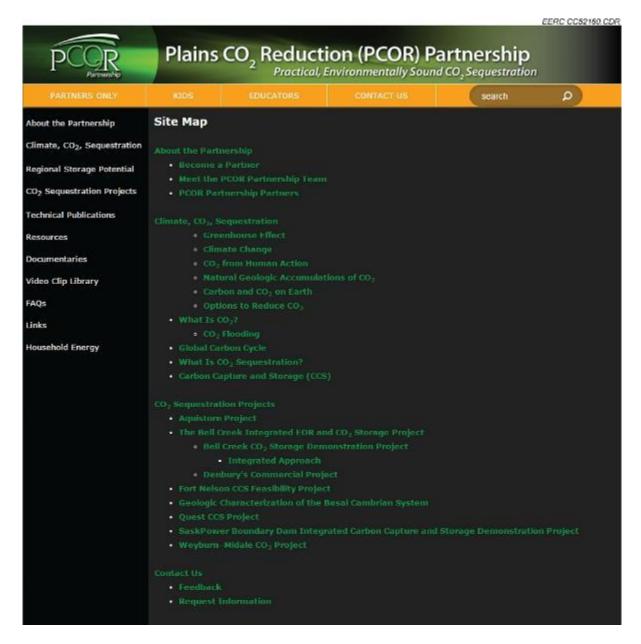


Figure 28. Updated Site Map (continued). Existing Link: <u>undeerc.org/PCOR/SiteMap.aspx</u>.



Figure 28 (continued). Updated Site Map. Existing Link: <u>undeerc.org/PCOR/SiteMap.aspx</u>.

FUTURE WORK

The next Web update is due on January 31, 2018. In the area of Web traffic tracking, future work is expected to include periodic review and refinement of the tracking SOP, configuring the Web site search function to record words visitors search, adjust the session timeout length to accommodate full-length documentary viewing, refine the bounce rate parameters, and set up tracking events to improve data collection for video interactions and PDFs. On the visible components of the Web site, work is expected to include updating several pages to improve interactivity, updated information on active projects, and more materials targeting K–12 education (for teachers and students). These changes will be made as part of the effort to provide products that will serve the needs of key audiences, increase overall traffic to the site, and improve our ability to track and assess Web site use.

APPENDIX A

STANDARD OPERATING PROCEDURE (SOP) FOR TRACKING USER ACTIVITY ON THE PCOR PARTNERSHIP PUBLIC WEB SITE

APPENDIX B

PRINT-FRIENDLY PAGES OF THE HOUSEHOLD ENERGY AND CARBON FOOTPRINT SECTION