



913 W. Spresser St., Taylorville, IL 62568

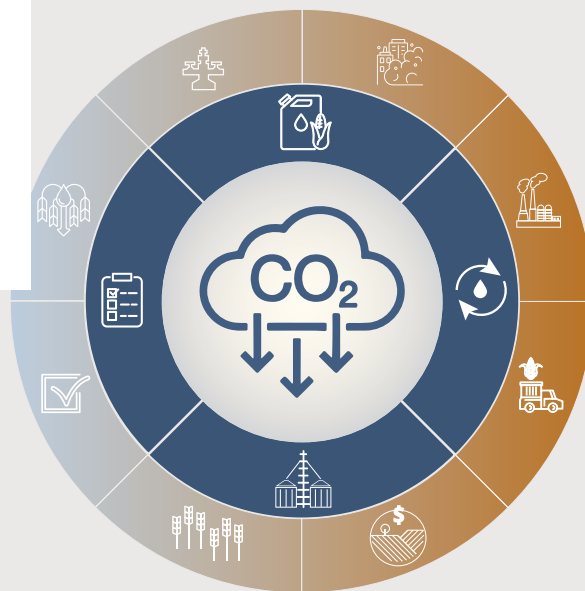


YOUR QUESTIONS ANSWERED.

Scan this QR code to access a short video about how carbon capture and storage (CCS) works.



Carbon Capture and Storage (CCS)



INSIDE THIS ISSUE

- Meet Ryan Choquette, part of the storage space team.
- Update on the project timeline
- Is carbon dioxide dangerous?
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CONTACT US

Our offices are open daily Monday through Friday.

We welcome your visit, or you can call 217-777-1870.

PROJECT OFFICE

913 W. Spresser Street, Taylorville, IL • 9 am - 5 pm, Monday - Friday
info@heartlandgreenway.com

GREENWAYREPORT

SUMMER 2022



ILLINOIS ECONOMIC BENEFITS



\$795 MILLION

Capital Investment in Illinois



3,565

Employment Opportunities at Peak Construction¹

¹ Includes direct and indirect employment opportunities



\$3.5 BILLION

All Direct and Indirect Economic Activity Generated by the Project



350,000

Metric Tons of CO₂ Captured Annually² from Local Facilities That Process

125 MILLION

Gallons of Ethanol Annually²

² Numbers are approximate

MEET YOUR PROJECT TEAM

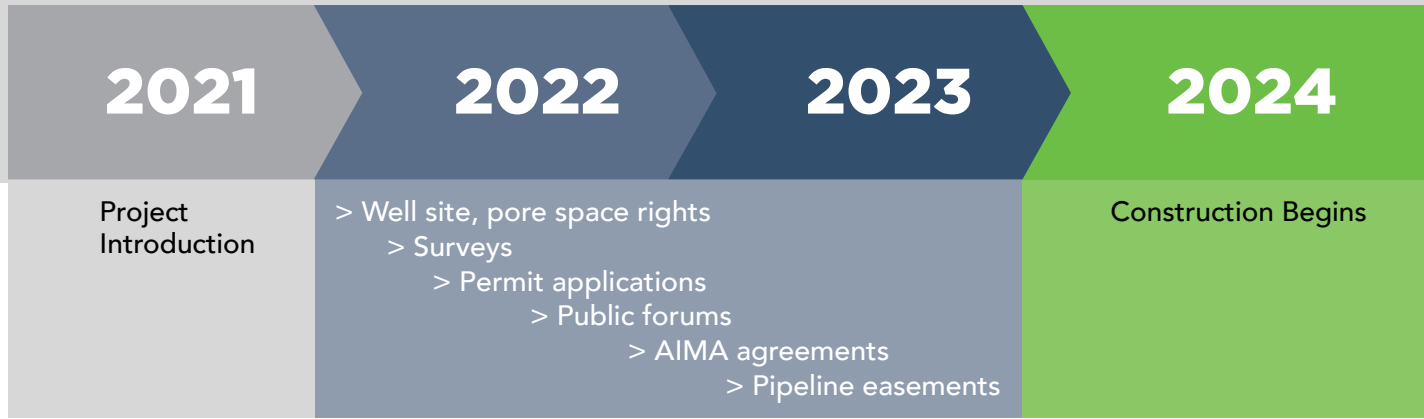
If I haven't already met you at an open house or our project office, my name is Ryan Choquette and I work as a senior project manager on the Heartland Greenway team.

I have hands-on experience as an engineer for other successful CCS projects throughout the country that allows me to share firsthand, practical knowledge of how to approach and move through each stage of this multi-year process. My background may be technical, but I enjoy breaking down complex chemistry, mechanics, and construction components in relatable ways. This has helped build understanding and trust in each community that I've worked in over the past 15 years.

As a locally focused team, we are pleased to be available here in Taylorville. We welcome any and all questions about the project – whether you'd like to learn more about the safety features of the pipeline, how carbon dioxide is transported, safety of the injection wells we build, or how they'll be continuously monitored.

Ryan Choquette is a senior project manager for Tenaska on the Heartland Greenway project. Prior to joining Tenaska in 2008, he worked at Northern Natural Gas in Omaha and at Lockheed Martin after earning his degree in mechanical engineering from the University of Nebraska-Lincoln.

Please reach out to me with any questions you have. You can call the project office at 217-777-1870 or email me at RChoquette@tenaska.com.



WHAT HAPPENS NEXT?

Project Timeline Update

“When will construction begin?”

This is one of the most common questions at our monthly open houses.

The short answer is 2024.

While the Heartland Greenway team is preparing applications for a wide array of federal, state, and local permits, construction of the pipeline and storage space is still two years away. There will be significant opportunities for open reviews and public forums all along the way.

Here is an overview of some of the local, state, and federal authorities that will provide oversight and input to the project:

The **Christian County Board** is currently evaluating additional oversight of carbon capture and storage

(CCS) projects and any special use permits that might be required.

The **Illinois Commerce Commission** will review the application for a Certificate of Authority to construct and operate a carbon dioxide pipeline in Illinois. This will include a lengthy open process of review, which includes landowners and the public.

Heartland Greenway is working with the **Illinois Department of Agriculture** as it develops an Agricultural Impact Mitigation Agreement (AIMA), which will be sent out to landowners once land restoration terms are determined. The AIMA must be approved by the Department before beginning any construction.

The **U.S. Environmental Protection Agency** requires special permits for Class VI wells, which are used to inject CO₂ into underground rock formations for long-term storage.

FOOD PANTRY AND FFA AWARDED \$500 CHECKS

We are proud to be partners in the community, and recently awarded donations to support two local organizations.

The **Taylorville Food Pantry** is a volunteer-operated pantry that has provided food assistance since 1984 through donor organizations including Feeding America, Kroger, Aldi, Walmart, CVS, and local wholesaler Ron’s Produce. Monthly assistance is available to residents in the Taylorville area. Amy Hagen, president of US Bank in Taylorville and board member of the Central Illinois Foodbank, accepted the check on behalf of the Pantry.

Future Farmers of America at Taylorville High School also received \$500. This dynamic youth organization changes lives and prepares members for premier leadership, personal growth, and career success through agricultural education. Agriculture teachers Sue Schaffer, Katie King, and Lori Parks accepted the check and will steward the funds.



How do communities benefit from Heartland Greenway?

There will be many meaningful benefits to communities where a Heartland Greenway storage space is located.

“Actions speak louder than words and we are committed to being a long-term community partner,” says Elizabeth Burns-Thompson, vice president of government and public affairs at Navigator CO₂ Ventures.

Community Development Agreements

Heartland Greenway is committed to enter into an agreement with each county where a storage space is located. The agreement would provide funding for county and community needs each year Heartland Greenway operates.

“Actions speak louder than words and we are committed to being a long-term community partner.”

Landowner benefits: Heartland Greenway will negotiate with landowners on the pipeline route to obtain easements according to the rules of the Illinois Commerce Commission. Negotiations are under way with landowners for the storage space area to acquire rights to geology below ground and to install injection and monitoring wells on the surface. These agreements will provide substantial financial opportunities for landowners.

Growth of business, jobs and tax revenue: Industrial businesses that have CO₂ emissions will seek to locate where CCS infrastructure is available. That’s already been the case in other Illinois counties with CCS. Carbon capture drives economic activity, so it’s likely Heartland Greenway could attract secondary investment that would generate good-paying jobs.

Secondary spending: Increased income levels and business development will provide a direct boost to local businesses, including restaurants, contractors, and consumer-goods providers.

ASK AN ENGINEER



Is carbon dioxide toxic to humans?

Carbon dioxide is often confused with carbon monoxide. While they sound similar, they are very different gases. Heartland Greenway will be transporting carbon dioxide, not carbon monoxide.

- Carbon dioxide (CO₂) is colorless, odorless, tasteless and non-flammable. It occurs naturally in the atmosphere by the decomposition of plant and animal life, by human respiration, and through the burning of fossil fuels.
- Carbon monoxide (CO) is far more dangerous and results from oxygen-starved combustion from improperly ventilated motors and appliances like oil and gas furnaces. Carbon monoxide poisoning is the most common type of fatal poisoning worldwide.

While carbon MONOXIDE is a poisonous gas that can be fatal even in low concentrations of 200-400 parts per million, carbon DIOXIDE is only harmful to health in extreme concentrations of 30,000 ppm or more.

Andrew Duguid is a Vice President at Advanced Resources International, overseeing the construction of the wells on the Heartland Greenway project. He has more than 15 years of experience with carbon sequestration and holds a PhD from Princeton University in Civil Engineering, in addition to master’s degrees in Nuclear and Civil Engineering from The Ohio State University.

At a Glance

5,194

Total number of wells in Christian County

2,250

Water wells

2,944

Oil and gas wells

Heartland Greenway Includes

6

Proposed injection wells

12

Proposed Monitoring wells

80ft

Average depth of water wells

2,000ft

Average depth of oil and gas wells

6,000ft

CO₂ Storage Injection Well