



Navigator CO₂

PROJECT OVERVIEW

The Heartland Greenway carbon capture, utilization, and storage (CCUS) system will provide biofuel producers and other industrial customers in the Midwest with a long-term, cost-effective means to reduce their carbon footprint.

This multi-faceted project will assist customers in constructing and financing carbon dioxide (CO₂) capture equipment; safely transporting the captured CO₂ over a newly constructed approximately 1,300-mile pipeline network; and permanently storing the carbon in secure, underground sites being actively developed in south-central Illinois.

The multi-billion-dollar investment will connect rural industrial producers in Iowa, Illinois, Minnesota, Nebraska and South Dakota at more than 30 receipt points to ultimately capture and store approximately 15 million metric tons of CO₂ per year once fully expanded.

PROJECT PURPOSE

Reducing the transportation sector's carbon output is key to meeting global GHG emissions targets. By providing an economic means to reduce the carbon footprint of homegrown biofuels, the Heartland Greenway will enable producers to create a more sustainable, premium product to bring to market.



HEARTLAND
GREENWAY

PROJECT IMPACT

Reduces GHG Emissions

Once fully expanded, the system's carbon offset will be equivalent to the emissions of 3.2M passenger cars driven annually

Strengthens Communities

Creates jobs and increases tax revenue to local communities and counties over the footprint and life of the project

Crop Yield Sustainability

Adds value to the agricultural supply chain by increasing the marketability and viability of biofuels such as ethanol



HEARTLAND
GREENWAY

PIPELINE SAFETY

- Pipelines are among the safest, most environmentally friendly, and reliable methods of transporting the products we use every day.
- This project will be designed, constructed and operated to meet or exceed all federal, state and local regulations.
- Internal and external integrity assessments will be made before and after placing the system in service.
- We will have enhanced monitoring systems in place 24 hours a day, 7 days a week, 365 days a year.

EXPECTED TIMELINE

Second Quarter – Third Quarter 2022
Preliminary field surveying and installation methodology

Fourth Quarter 2023
Anticipated receipt of federal and state permits

Second Quarter 2024 – Fourth Quarter 2024
Construction phase

Fourth Quarter 2024 – Second Quarter 2025
Initial system commissioning

CARBON CAPTURE EXPLAINED



CO₂ is produced as a byproduct of the manufacturing process



DEHYDRATION

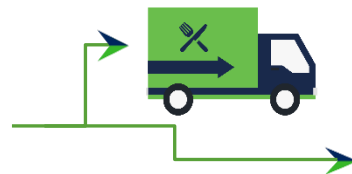


COMPRESSION

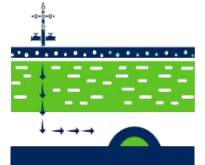
CO₂ is captured, dehydrated, and compressed into a liquid using equipment that can be added onto the facility without interrupting normal manufacturing operations



Liquid CO₂ is gathered from connected facilities and transported in a network of steel pipeline



Liquid CO₂ is made available via truck terminals and pipeline offtake connections for commercial or industrial uses



CO₂ is injected more than a mile beneath thick layers of rock for permanent storage

ECONOMIC BENEFITS



8,000

contract positions created during construction



Property tax revenue for local communities and counties



80

full-time employees once project is complete

ABOUT NAVIGATOR

Navigator CO₂ Ventures is pioneering a path to sustainable carbon solutions, while maximizing value for all stakeholders in the new carbon economy.

Since our inception in 2012, the Navigator service team has safely constructed and operated more than 1,300 miles of new midstream infrastructure.

For more information about the project, visit www.heartlandgreenway.com.