

SCS PROJECT OVERVIEW

Sloux County, Iowa

DEVELOPING THE LARGEST INTEGRATED CARBON CAPTURE, TRANSPORTATION, AND STORAGE PROJECT IN THE WORLD.





















































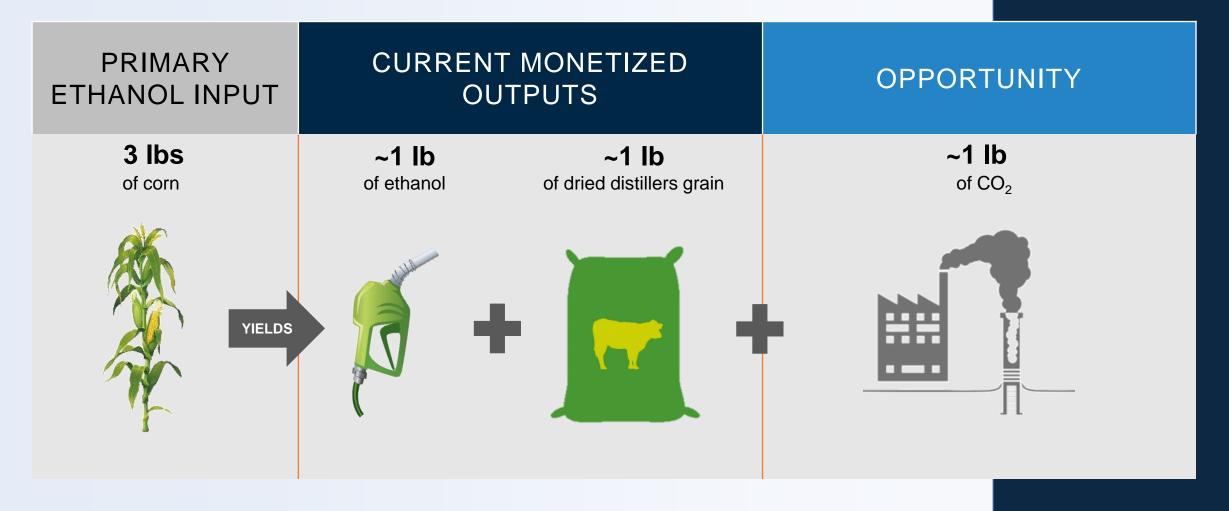






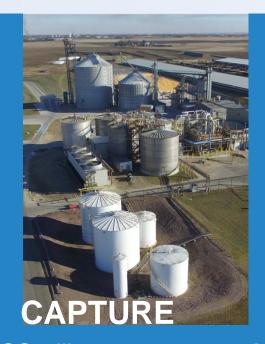


Where's the CO₂ Coming From?





Midwest Carbon Express Overview



SCS will capture up to 18M tons of CO₂ per year.



The CO₂ will be transported via a CO₂ line network that spans nearly 2,500 miles and will be completed in 2026.



The CO₂ will be permanently and safely stored deep underground in geologic formations in North Dakota.

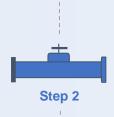
Midwest Carbon Express Overview

At our 57 partner ethanol plants, Summit Carbon Solutions will install new, state-of-the-art infrastructure



Step 1

Carbon dioxide (CO₂) is captured that otherwise would be emitted into the atmosphere.



The CO₂ is compressed and transported through a newly constructed pipeline system (MCE).



CO₂ arrives at the injection site in North Dakota where it will be permanently and safely stored in deep underground geologic formations.









CO₂ Commodity Process & Safety

DEPLOYING EXISTING, PROVEN TECHNOLOGIES TO REDUCE CARBON INTENSITY OF ETHANOL PRODUCTION



Capture & Compression

At Summit Carbon Solutions' partner facilities, carbon dioxide capture and compression equipment will be installed to capture CO₂ emissions.

Pipeline Transportation

Small underground pipelines will connect each facility to a larger trunk pipeline, which will transport CO₂ to the sequestration site in North Dakota. Pipeline will be buried at a minimum of four feet deep (top of pipe).

- All pipeline segments will be constructed with highstrength carbon steel manufactured in the U.S. and have a wall thickness ranging from 0.250 inches to 0.688 inches thick.
- The pipeline system will be approximately 2,500 miles and the nominal diameter will range from 6 inches to 24 inches.

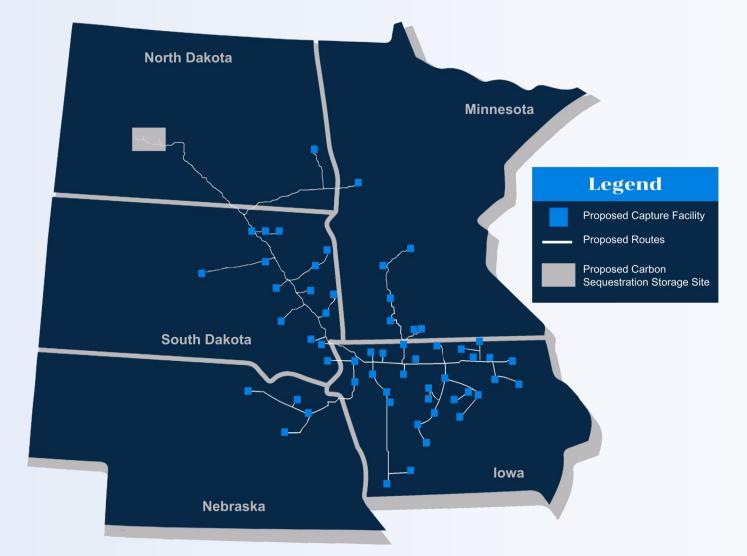
Geologic Storage

Captured CO₂ is permanently stored in geologic storage areas in North Dakota. Wells are drilled several thousand feet below ground where CO₂ can be stored safely based on the standards put in place by North Dakota's Department of Mineral Resources.



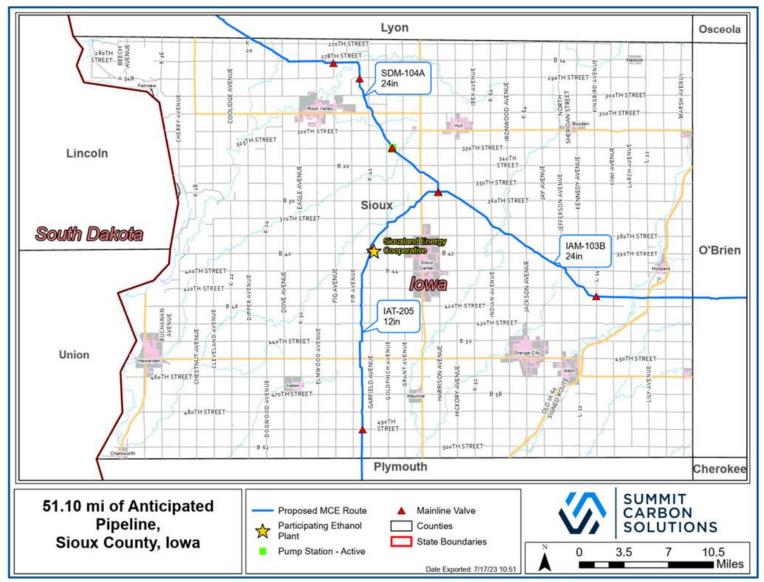


Project Overview Map



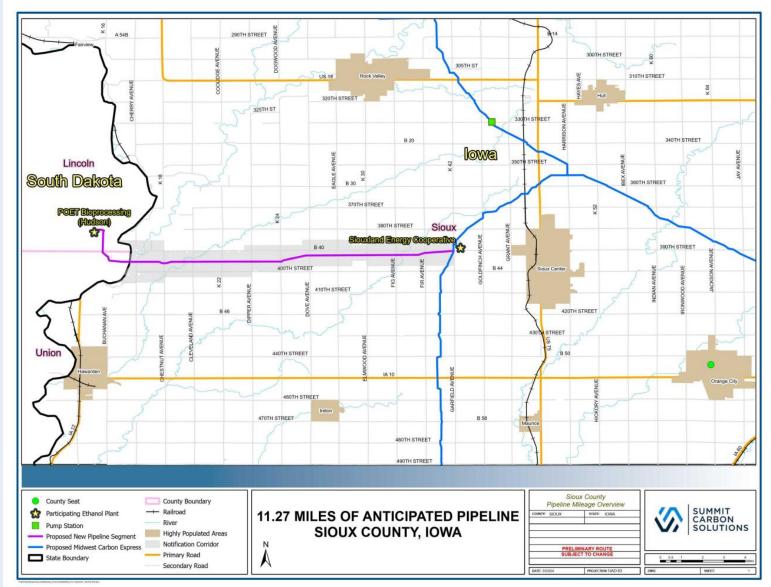














Enhancing the Long-Term Profitability of Ethanol & Agriculture





ETHANOL AND AGRICULTURE WORK TOGETHER TO ADD VALUE ACROSS THE SUPPLY CHAIN AS WELL AS CREATE ECONOMIC IMPACT AND JOBS FOR RURAL AMERICA.

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|---------------|----|------|----|------|
|---------------|----|------|----|------|

IOWA

EACH YEAR, THE ETHANOL INDUSTRY ADDS:

\$43B+
of annual GDP
contribution

\$5.5B+

of annual GDP contribution

EACH YEAR, THE ETHANOL INDUSTRY SUPPORTS:

340,000+

44,000+ direct jobs

THE LONG-TERM VIABILITY OF THE ETHANOL INDUSTRY IS CRITICAL FOR AGRICULTURE AND RURAL AMERICA.

Source:



SCS will drive economic growth and job creation across the Midwest and beyond

\$8 Billion

capital investment with operations beginning in 2026







| | Capture & Compression | Pipeline | TOTAL |
|---------------------------------|-----------------------|---------------|---------------|
| | | | |
| AVERAGE ANNUAL PROJECT JOBS* | 1,176 – 1,453 | 4,360 – 5,468 | 5,536 – 6,921 |
| OPERATION JOBS ^{1*} | 462 - 593 | 264 - 396 | 725 - 989 |

SUMMIT CARBON SOLUTIONS IS COMMITTED TO UTILIZING LOCAL CONTRACTORS, LOCAL SUPPLIERS, AND LOCAL BUSINESSES TO PROVIDE ONGOING ECONOMIC BENEFITS TO LOCAL COMMUNITIES ACROSS IOWA AND THE MIDWEST.



Supporting Iowa's Economy

ESTIMATED PROPERTY TAXES PAID ANNUALLY BY COUNTY*

| County | New Property Taxes | | |
|--------------------|--------------------|--|--|
| Adams County | \$933,000 | | |
| Boone County | \$190,000 | | |
| Bremer County | \$762,000 | | |
| Buchanan County | \$816,000 | | |
| Buena Vista County | \$979,000 | | |
| Butler County | \$1,343,000 | | |
| Cerro Gordo County | \$1,599,000 | | |
| Cherokee County | \$2,199,000 | | |
| Chickasaw County | \$1,226,000 | | |
| Clay County | \$2,413,000 | | |
| Crawford County | \$873,000 | | |
| Dickinson County | \$1,813,000 | | |
| Emmet County | \$265,000 | | |

| County | New Property Taxes | |
|-----------------|--------------------|--|
| Fayette County | \$241,000 | |
| Floyd County | \$2,500,000 | |
| Franklin County | \$680,000 | |
| Fremont County | \$855,000 | |
| Greene County | \$1,745,000 | |
| Guthrie County | \$2,256,000 | |
| Hamilton County | \$1,364,000 | |
| Hancock County | \$2,220,000 | |
| Hardin County | \$3,126,000 | |
| Ida County | \$2,657,000 | |
| Kossuth County | \$2,135,000 | |
| Lyon County | \$729,000 | |
| Mitchell County | \$1,381,000 | |



| County | New Property Taxes |
|---------------------|--------------------|
| Montgomery County | \$1,110,000 |
| O'Brien County | \$3,330,000 |
| Osceola County | \$838,000 |
| Page County | \$389,000 |
| Palo Alto County | \$2,195,000 |
| Plymouth County | \$1,668,000 |
| Pottawattamie Count | y \$803,000 |
| Shelby County | \$674,000 |
| Sioux County | \$3,654,000 |
| Story County | \$1,174,000 |
| Webster County | \$3,132,000 |
| Woodbury County | \$666,000 |
| Worth County | \$1,180,000 |
| Wright County | \$2,619,000 |





Along with safety, Summit Carbon Solutions' top priority is collaborating with landowners in Iowa, Minnesota, Nebraska, South Dakota, and North Dakota to drive growth in ethanol, agriculture, and energy.

73% of landowners signed Project Wide

72% of landowners signed lowa





Our Commitment to Landowners



Summit Carbon Solutions
will work with landowners,
community leaders,
stakeholders,
and more with respect,
honesty, and transparency.



The **safety of our operations**, our employees, the communities where we operate, and our landowner partners is our core Company **value**.

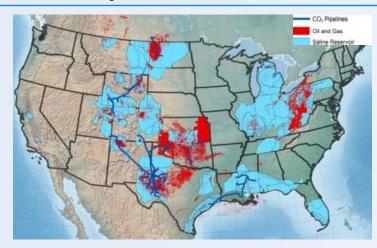


Summit Carbon Solutions will comply with our Agricultural Impact Mitigation Plan (AIMP) to protect and restore lands, topsoil, drain tiles, drainage systems, and terraces to their preconstruction levels.

SCS: A Commitment to Safety

CCS technology has been safely and successfully implemented since the 1970s

CURRENT U.S. CO2 PIPELINE FOOTPRINT



IMPECCABLE SAFETY RECORD

Zero

CO₂ pipeline fatalities in the last 25 years¹

CO₂ is much less of a health and environmental hazard than other pipelines. CO₂ is not combustible (it is used as a fire retardant)



Capture technology has been deployed at 40+ ethanol facilities throughout the U.S.



CO₂ pipelines are regulated by the Pipeline Hazardous Material Safety Administration (PHMSA); same code that regulates crude oil pipelines, refined products pipelines, and other pipelines transporting liquid products



More than 5,300 miles of CO₂ pipelines are currently operating in the U.S.



Pipeline transportation is the safest method of transportation; 99.999% reliable



SCS will only use high quality material and equipment and prefer material and equipment made or manufactured in the U.S. when available



SCS will utilize proven technologies and employ best industry practices to ensure the project is safe for landowners and the communities where they live, work, and raise families





The Future of Ethanol With SAF

Ethanol-based sustainable aviation fuel (SAF) is used by airlines in their effort to become more carbon neutral. With limited alternatives to power today's modern aircraft, SAF is expected to make up the majority of emissions reductions for the aviation industry.

EXPECTED GROWTH



PER BUSHEL: CCS could add up to \$1 / bushel and 15-25% raise in production.



~ **80 MILLION**: In 2022, global production of SAF a ~80 million gallons.



3.3 BILLION: Corporate targets of SAF usage amount annually by 2030.



PER GALLON: SAF can add value of \$1.25 to \$2+ per gallon of ethanol.

| Airline | Commitment | Producer | Pathway |
|---------------------|------------------------|------------------|---|
| American Airlines 🔪 | 620 Million gallons | gevo⁻ | Alcohol to Jet; ethanol |
| ▲ DELTA | 525 million gallons | ₩ gevo | Alcohol to Jet; ethanol |
| jetBlue | 670 million gallons | √ SG Preston | HEFA; vegetable and waste oils |
| Southwest's | 219 million gallons | ⊘ VELOCYS | Fischer- Tropsch; syngass |
| United Airlines | 1.5 billion gallons | ALDER FUELS | Biomass to crude oil; forest and crop waste |

WITHOUT CARBON CAPTURE PIPELINES, ETHANOL WILL NOT QUALIFY FOR THIS MARKET OPPORTUNITY

Presentation Name | Date

