

SUMMIT CARBON SOLUTIONS

WDEA Annual Meeting October 13, 2022

THE WORLD'S LARGEST INTEGRATED CARBON CAPTURE, TRANSPORTATION, AND STORAGE PROJECT.

Partnered with **32 ethanol plants** across Iowa, Minnesota, Nebraska, North Dakota, and South Dakota.

The capacity to capture and permanently store up to 12 million tons of carbon dioxide every year.

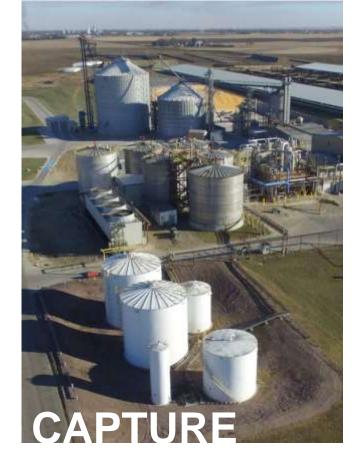
Opening new economic opportunities for ethanol producers, strengthening the agricultural marketplace for farmers, and generating new tax revenues for local communities.



PROJECT OVERVIEW MAP

- Partner Facility
- Sequestration Site
- Pipeline Route





SCS will capture nearly 9M tons of CO₂ per year that would otherwise be emitted into the atmosphere. The project will be able to accommodate a total capacity of 12M+ tons annually.



The CO₂ will be transported via a pipeline network that spans nearly 2,000 miles and will be completed in 2024.



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

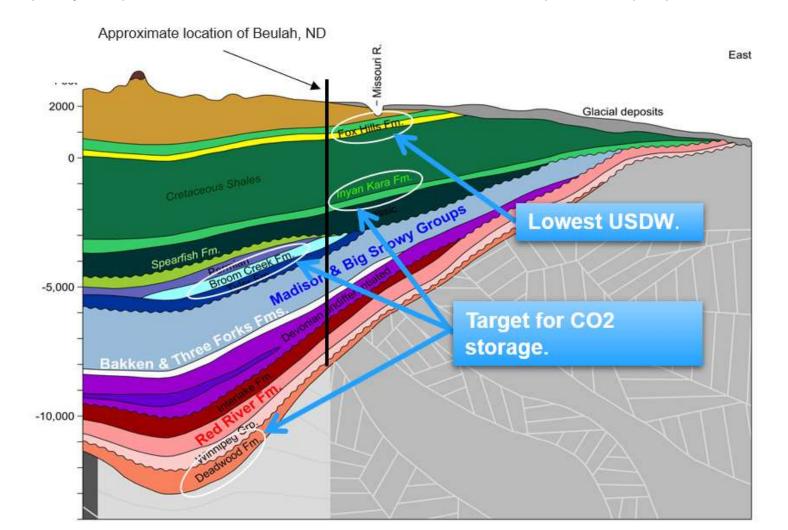






SUMMIT CARBON SOLUTIONS WILL INJECT SUPERCRITICAL CO2 DEEP INTO SALINE RESERVOIRS FOR PERMANENT STORAGE

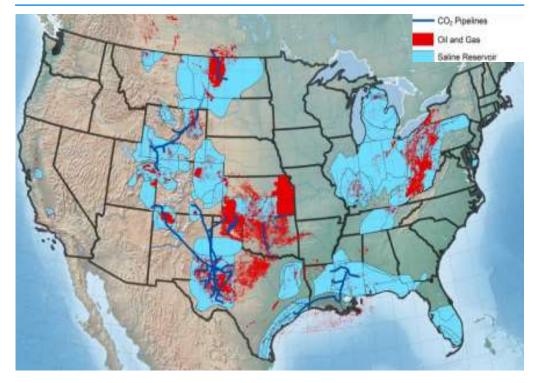
- CO₂ will be injected underneath an **impermeable rock layer** into porous sandstone formations for permanent sequestration
- Pore space is leased from landowners that own the surface rights
- Over a 100-year injection period, **SCS will utilize less than 1%** of North Dakota's total sequestration capacity



Carbon Capture, Transportation and Storage is a Safe, Proven Practice

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 20 years¹



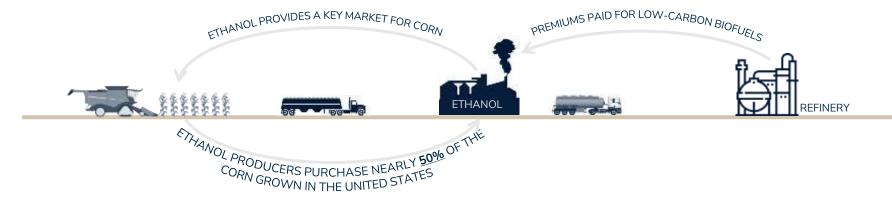
- ✓ CO2 Capture installed on 40+ U.S. ethanol facilities
- ✓ Pipeline transportation is the safest method
- ✓ More than 5,000 miles of CO2 pipelines exist in the U.S.
- SCS will only utilize highly rated and safe materials, including carbon steel
- We will utilize proven technologies and best industry practices to ensure the project is safe for landowners and the communities

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

Enhancing the Long-Term Viability of Ethanol & Agriculture



SCS ENABLES ETHANOL TO BE PRODUCED MORE SUSTAINABLY ALLOWING IT TO BETTER COMPETE IN A LOW-CARBON WORLD





	United States	NORTH DAKOTA
Each year, the ethanol industry adds:	\$50B+ of annual GDP contribution	\$640M+ of annual GDP contribution
Each year, the ethanol industry supports:	400,000+ jobs	10,000+ jobs

The long-term viability of the ethanol industry is critical for agriculture and rural America.

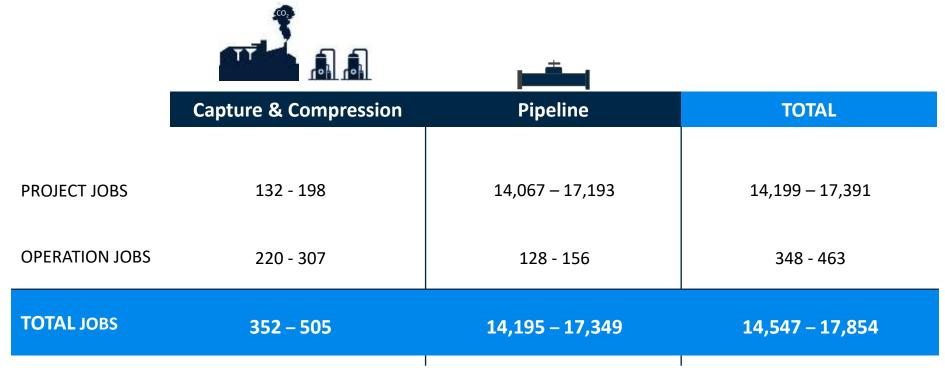
Source: North Dakota Ethanol Council, ABF Economics 2019



SCS WILL DRIVE ECONOMIC GROWTH AND JOB CREATION ACROSS THE MIDWEST AND BEYOND

\$4.5 Billion

capital investment with operations beginning in 2024



Summit Carbon Solutions North Dakota Economic Benefits



Summit Carbon Solutions will create jobs, generate new tax revenue for local communities, support local suppliers, and strengthen the regional economy

\$898 Million

projected capital investment with operations beginning in 2024¹

PROJECT-WIDE FINDINGS (CONSTRUCTION PHASE 2022-2024)









1,934Total Average Jobs
Created

\$2.1 billion
Expenditures

\$61.1 million
Direct, Indirect &
Induced Impacts

\$1.157 billion
Total Economic
Output

PROJECT-WIDE FINDINGS (OPERATIONS PHASE STARTING 2025)



\$17.6 million

Annual Expenditures



\$8.3 million
Total Federal, State, Local
Taxes Paid by SCS



150
Total Jobs Supported

SCS IS COMMITTED TO UTILIZING LOCAL UNION AND NON-UNION CONTRACTORS, LOCAL SUPPLIERS AND BUSINESSES TO PROVIDE ONGOING ECONOMIC BENEFITS TO COMMUNITIES ACROSS THE MIDWEST

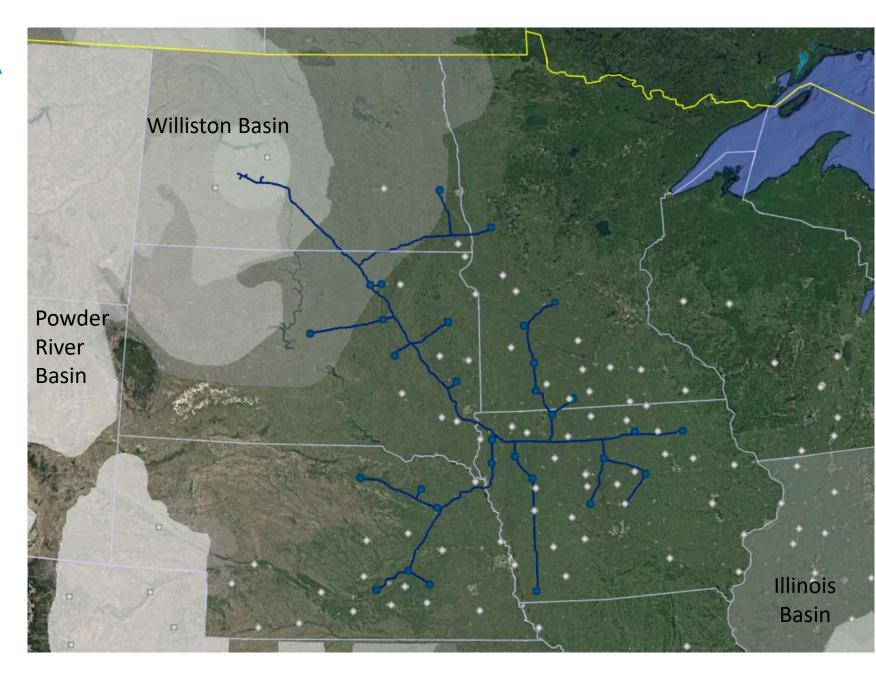
NORTH DAKOTA

- Partner Facility
- Potential CO₂ Sequestration Zones
- Pipeline Route
- Other Low-Cost CO₂ Facility

GEOLOGIC RESOURCE

up to 250 billion

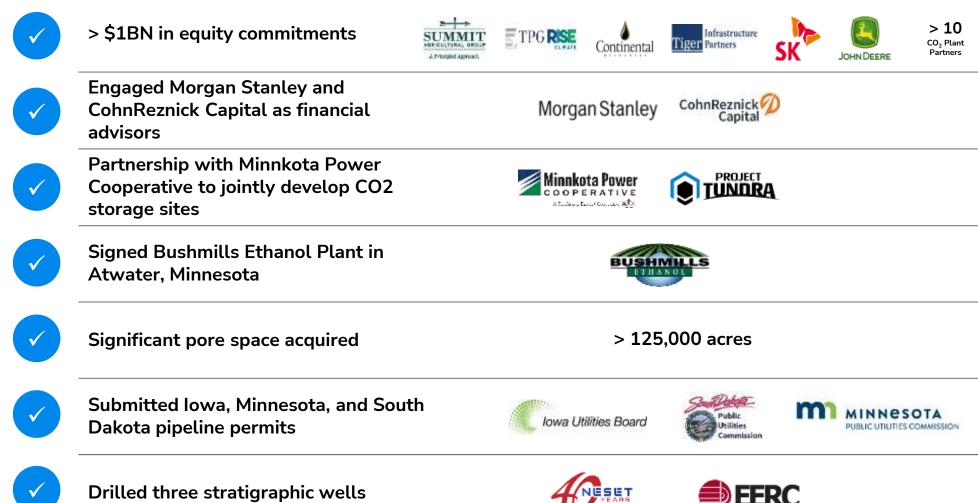
tons of sequestration capacity in North Dakota



Project Momentum and First Mover Advantage









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