

# SUSTAINABLE AVIATION FUEL (SAF) & CARBON CAPTURE AND STORAGE (CCS)



## QUICK FACTS:

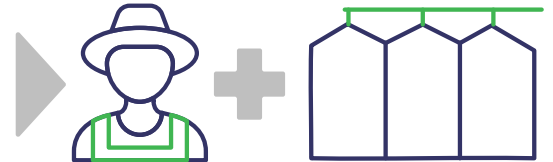
**Sustainable Aviation Fuel (SAF) is a historic opportunity for biofuel producers and Illinois farmers to access a critical emerging market.**

- Experts, executives, governments, and researchers agree: low-carbon SAF is critical to the future of aviation. (Source: [International Energy Agency](#))
- The Midwest, with its extraordinary combination of ethanol production, industrial know-how, and heavy airline presence can be at the center of that revolution.

**SAF is expected to add \$1.25 to \$2 per gallon to the value of American ag-based fuel feedstocks, benefitting farmers and the entire ag supply chain.**

- The U.S. and the EU have set goals that together would support almost 4 billion gallons of annual sustainable aviation fuel production in 2030, and about 40 billion by 2050. (Source: [American Carbon Alliance](#))

**\$1.25 to \$2  
per Gallon  
Value Added  
to American Ethanol**

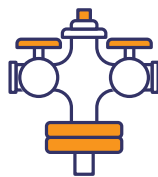


**But SAF cannot happen without carbon capture and storage (CCS).**

- Current regulations require SAFs to have a carbon intensity score 50 percent below that of traditional aviation fuel. (Source: [U.S. Government](#))

**CCS is the most significant commercially viable tool capable of reducing biofuels' carbon intensity enough to qualify under SAF rules.**

- Ethanol-based jet fuel has a carbon intensity of 69 grams of CO<sub>2</sub> per megajoule. CCS can reduce that to 38—enough to qualify under SAF rules.
- Without CCS, ethanol-based jet fuel **will not qualify** as a sustainable fuel. (Source: [American Carbon Alliance](#))



**CCS  
Commercially  
Viable Tool**



**Reduce  
Biofuel's Carbon  
Intensity Under  
SAF Rules**

**Thankfully, Illinois is home to one of the greatest CCS opportunities in the United States: the Illinois Basin.**

- Experts at the University of Illinois estimate that billions of tons of CO<sub>2</sub> can be safely and permanently sequestered deep underground in Central Illinois, generating up to \$15.3 billion in investment and 14,400 jobs for the region. (Source: [Regional Carbon Capture Deployment Initiative, Great Plains Institute](#))
- Millions of tons of CO<sub>2</sub> have already been safely sequestered in Decatur over the past decade. (Source: [U.S. Department of Energy](#))

**With the implementation of CCS technology, Midwestern ethanol could be a globally competitive low-carbon aviation fuel.**

- (Source: [American Carbon Alliance](#))

# WHAT THE EXPERTS ARE SAYING:

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## **Secretary of Agriculture Tom Vilsack:**

“For folks in the Midwest, if they’re interested in taking advantage of a biofuel renaissance and expansion with sustainable aviation fuel... they are going to have to have some way of dealing with the issue of carbon capture and storage.” – [Reuters](#)

## **United Airlines CEO Scott Kirby:**

“Carbon capture technology has the potential to be a critical solution in the fight to stop climate change and has the added benefit of helping us scale the production of SAF.” – [Press Release](#)

## **Iowa Renewable Fuels Association Executive Director Monte Shaw:**

“I honestly don’t think it’s hyperbole to say that capturing and sequestering carbon will be life or death for most ethanol plants over the next five years.” – [Iowa Capital Dispatch](#)

## **Carbon Direct:**

“We found that well-regulated carbon capture and storage (CCS) is a powerful lever to reduce carbon intensity across multiple sustainable aviation fuel production pathways. For example, carbon capture and storage can capture off-gases from both alcohol-to-jet and Fischer-Tropsch pathways, in some cases resulting in larger climate benefits than the initial switch from fossil to conventional biofuels.” – [Carbon Direct](#)

## **CEO of American Carbon Alliance Tom Buis:**

“Carbon Capture and Sequestration creates market opportunities for ethanol producers providing long-term benefits for the industry and all of agriculture.” – [American Carbon Alliance](#)

## **Valero VP Homer Bhullar:**

“Without carbon capture and storage, conventional ethanol does not have a pathway into SAF under today’s policies.” – [Reuters](#)

**FOR MORE INFORMATION, VISIT: [WWW.ADM.COM/CCS](http://WWW.ADM.COM/CCS)**