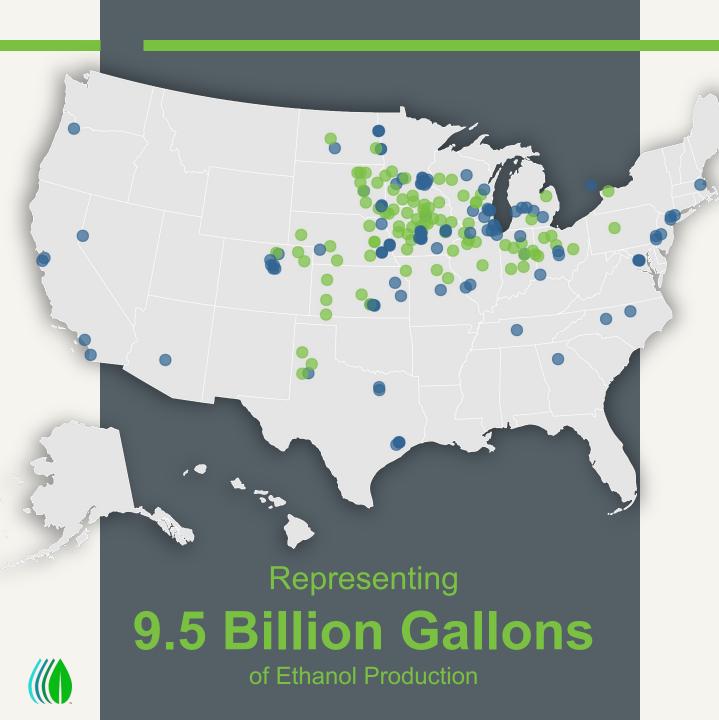




The Future of Bioethanol in a Low-Carbon World





Growth Energy is the leading biofuels trade association.

We represent producers and supporters of ethanol who are working to bring consumers better choices at the fuel pump, grow America's bioeconomy, and improve the environment for future generations.

96 113
Producer Associate Members

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Dave VanderGriend

ICM, Inc.



Nathan VanderGriend

ERI Solutions, Inc.



Big River Resources

Zimmerman



Competing in a Low-Carbon Economy



Enhanced Market Access

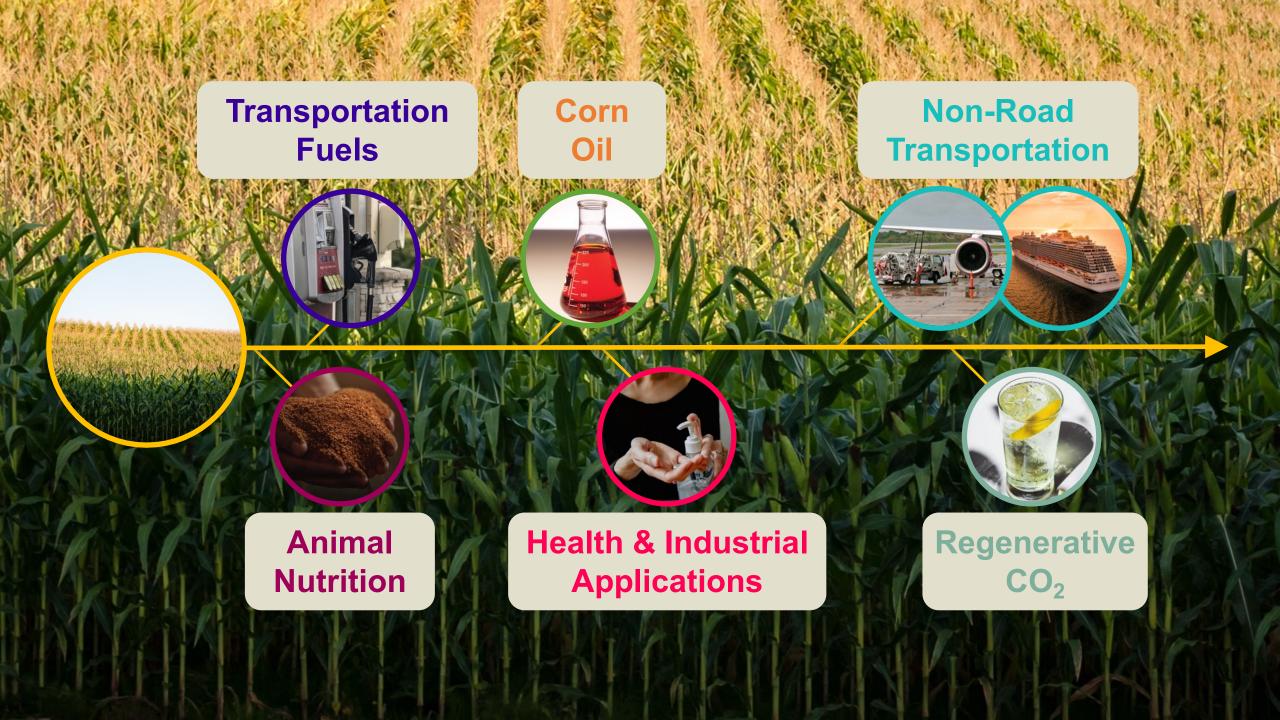


Effective Policy Solutions



Position
Bioethanol as
Climate Solution





Prime the Pump E15 Sites



Currently

3,244

E15 Sites

Nearly

5,900

Higher Blends

Big Business Responds to Climate

Harvard Business Review

"Research: Actually, Consumers Do Buy Sustainable Products"



"A Man On A Mission:
Gurhan Andac Wants To Bring
Sustainable Aviation Fuel To An
Airport Near You"

Bloomberg

"Vanguard, BlackRock Join Investors Pledging to Hit Net Zero"

The Guardian

"ExxonMobil and Chevron suffer shareholder rebellions over climate"



"Exclusive: Global carmakers now target \$515 billion for EVs, batteries"





Consumer Point of View

Consumer focus on climate change is at an all time high.

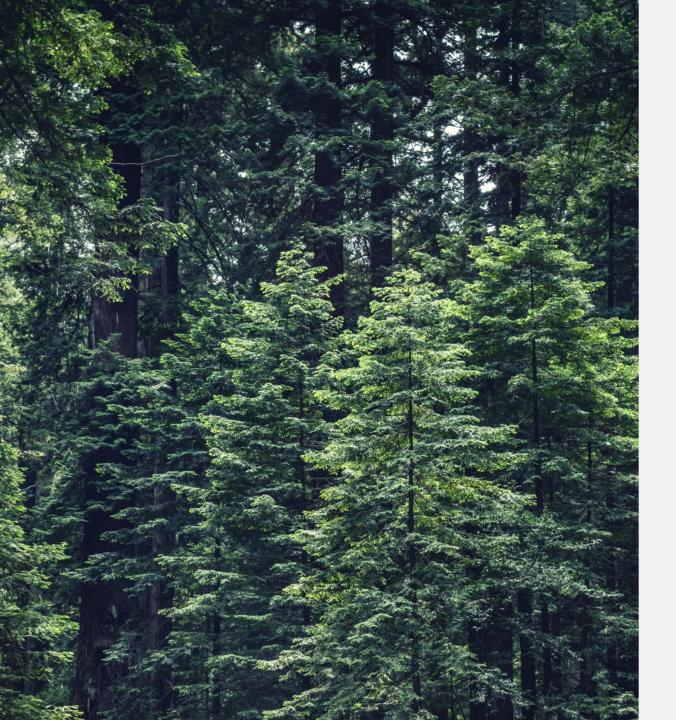
- **69% of Americans** say that large businesses and corporations aren't doing enough to address climate change.
- 64% of American adults say that reducing climate change should be a top priority.

(Pew 2021)

Consumers are broadly passionate about the environment and expect the companies they purchase from to do more to address climate.

- 1 in 4 willing to switch brands based on the company's climate action.
- Especially true with younger generations (18-24 year olds) who are three times more likely to switch brands based on climate values than those over 65.

(Deloitte 2021)



46%

greenhouse gas emissions from corn ethanol are 46% lower than gasoline.



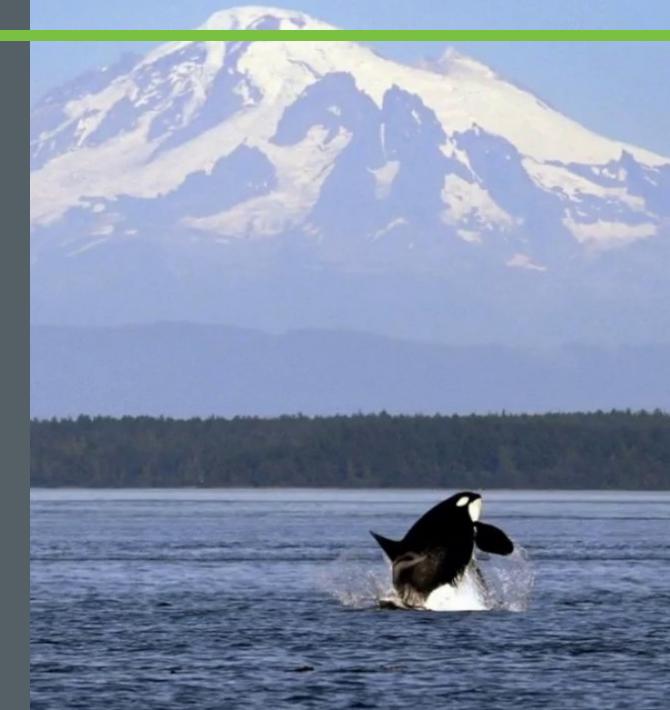
Low Carbon/Clean Fuel Standards

CALIFORNIA, OREGON, WASHINGTONPolicy in place, Tightening Standards

ILLINOIS, MASSACHUSETTS, MINNESOTA, NEW MEXICO, NEW YORK

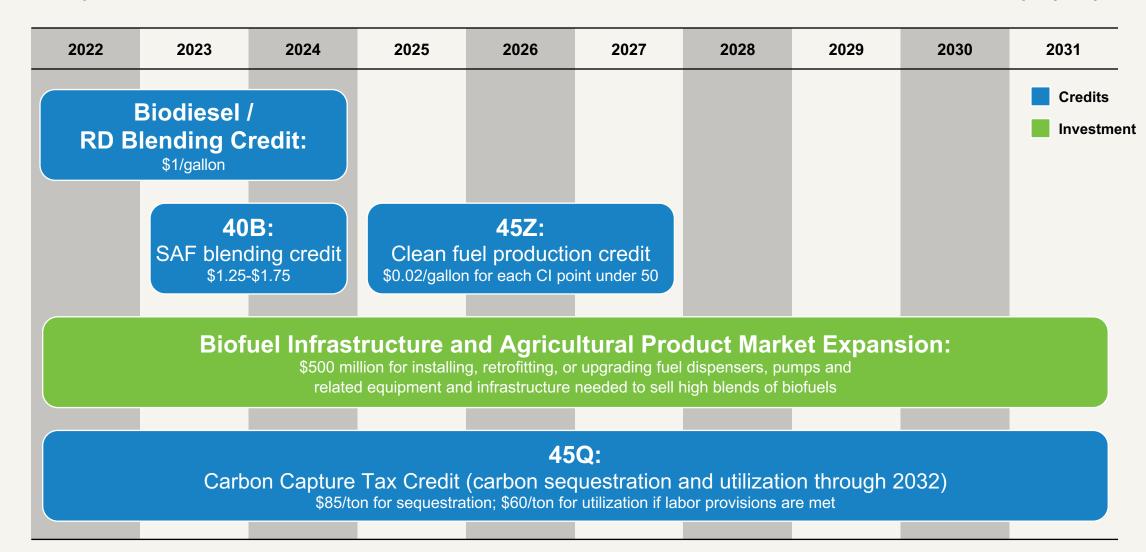
GLOBAL:

CANADA, EUROPE, BRAZIL



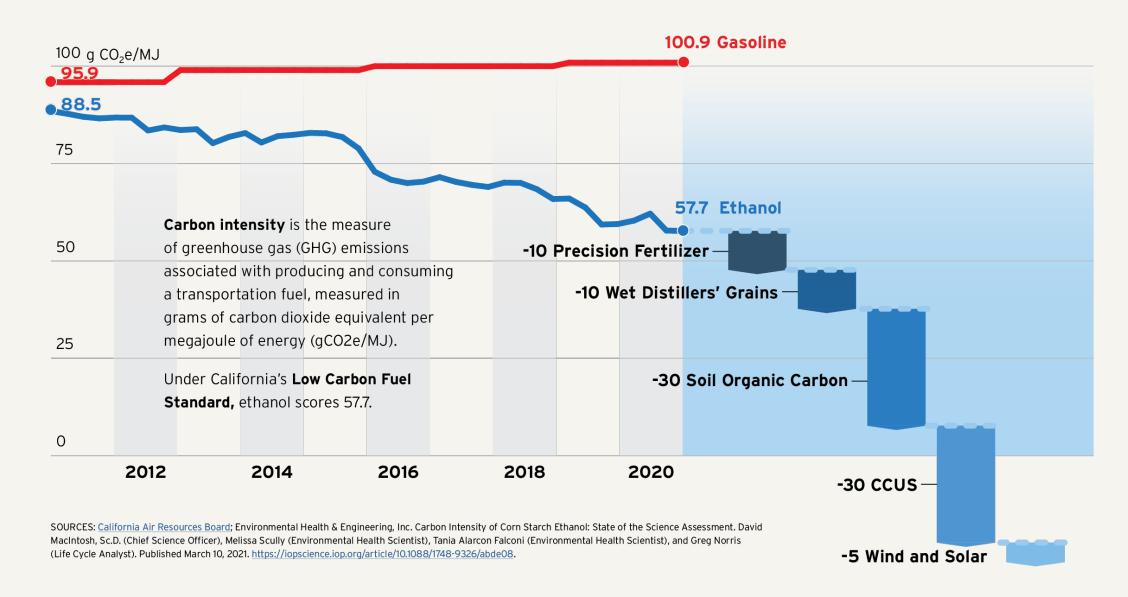
Inflation Reduction Act

Key Biofuels Provisions – Based on reductions in carbon intensity (CI)





Carbon Intensity of Ethanol Continues to Approach Net-Zero





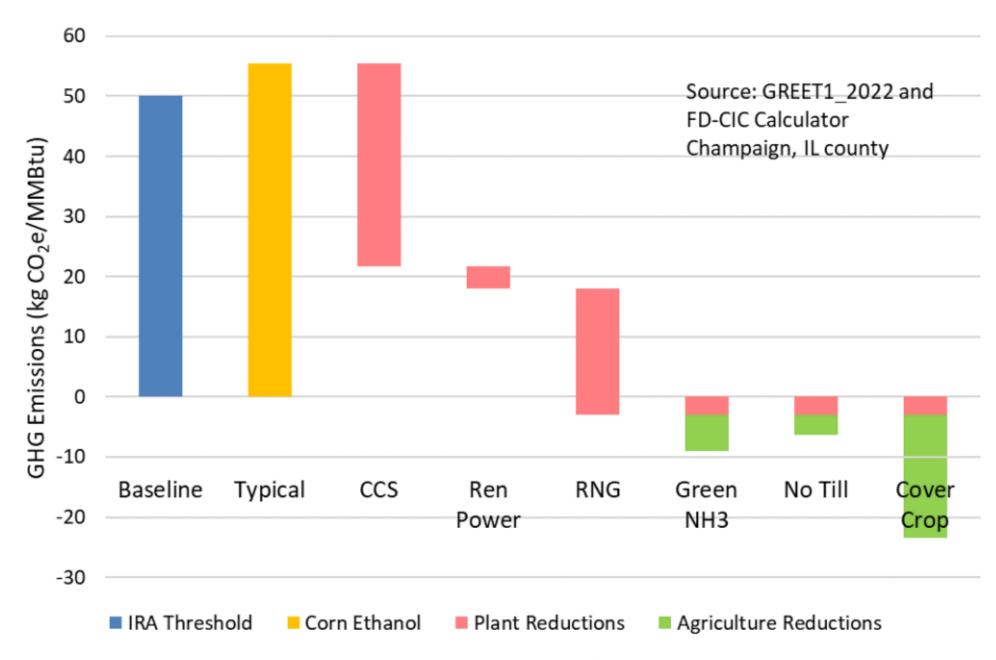
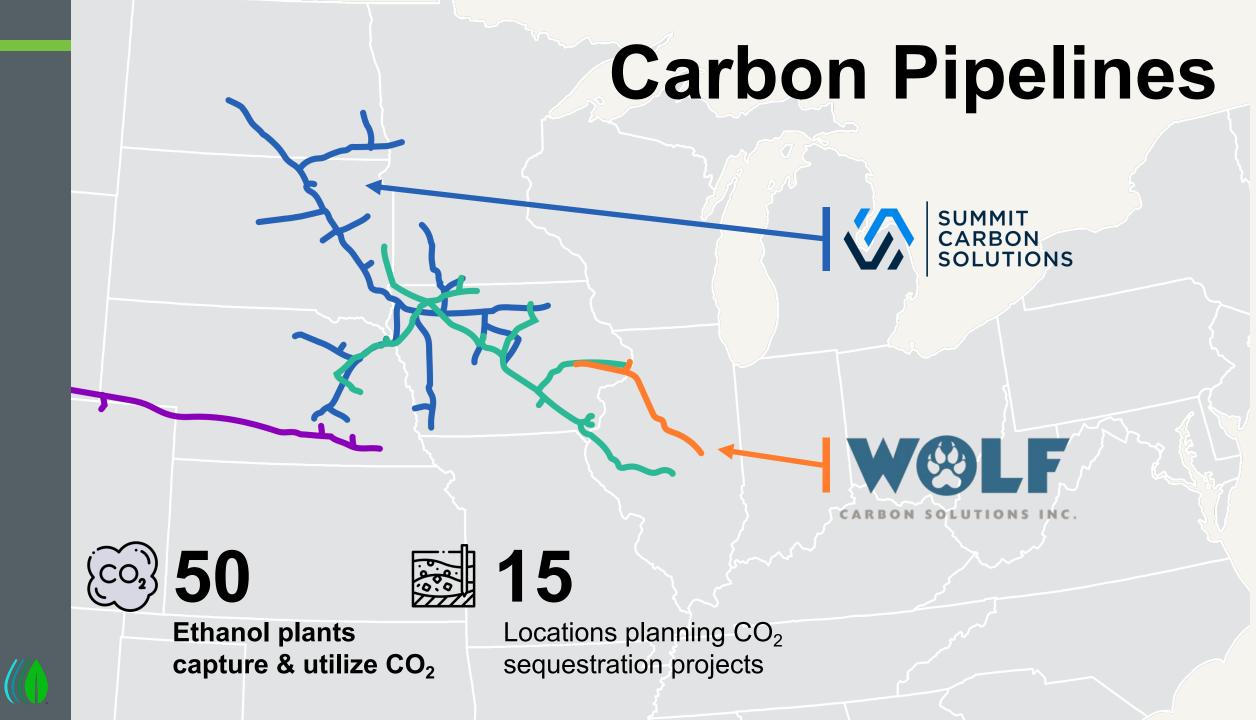
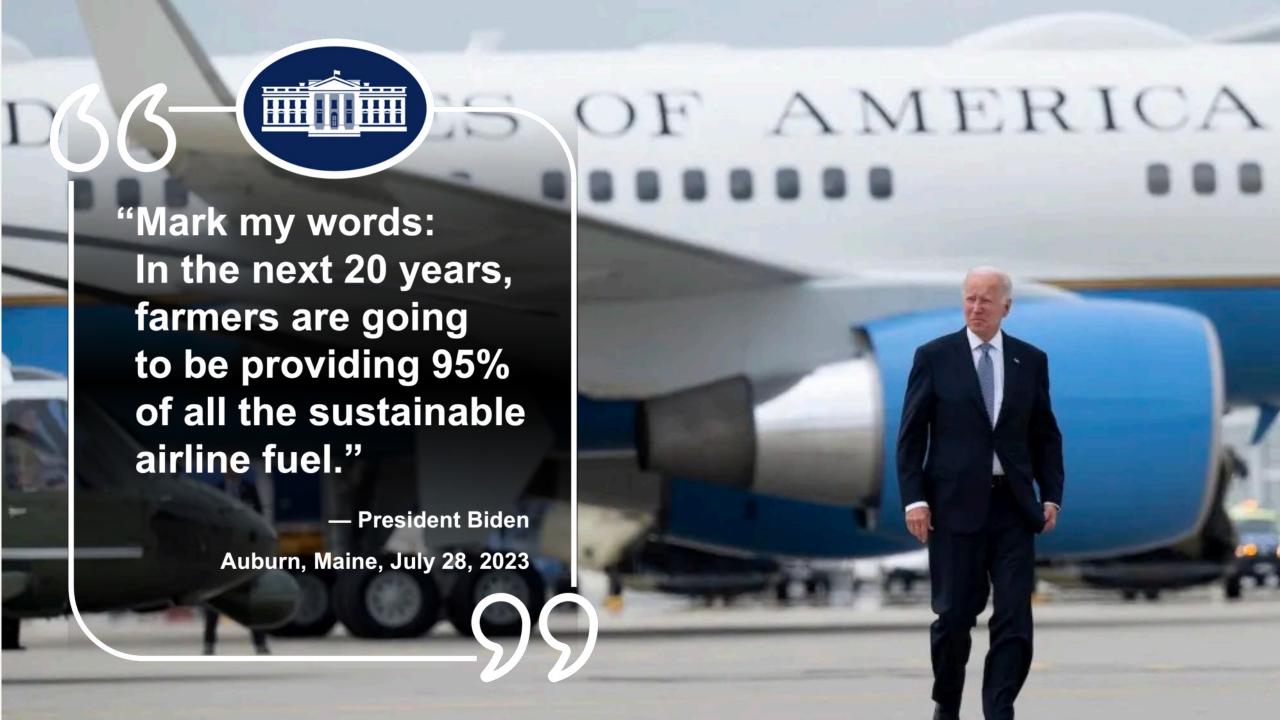


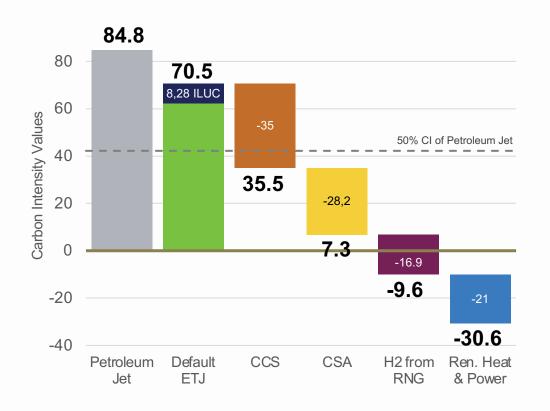
Figure 1. GHG Emission Reduction Options for Corn Ethanol.²



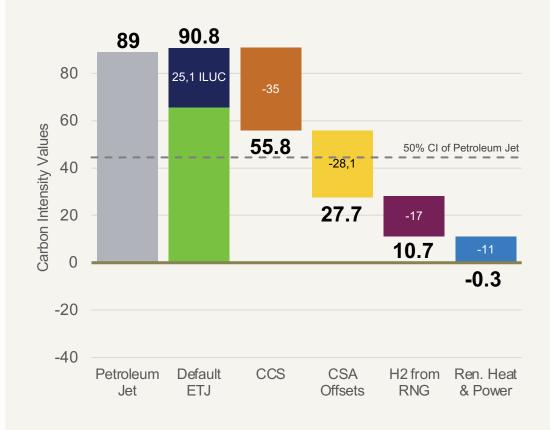


Carbon Intensity Reduction Potential of U.S. Corn Ethanol in Jet Fuel











SAF Demand Drivers



UNITED STATES

3 billion gallon target by 2030 incentives

via the Inflation Reduction Act

EUROPEAN UNION

6% volumetric blend requirement by 2030

20% blend requirement by 2035

UNITED KINGDOM

10% volumetric blending requirement by 2030

NORWAY

30% volumetric blending requirement by 2030

SWEDEN

27% volumetric blending requirement by 2030

FRANCE

5% volumetric blending requirement by 2030

JAPAN

10% volumetric blending requirement by 2030



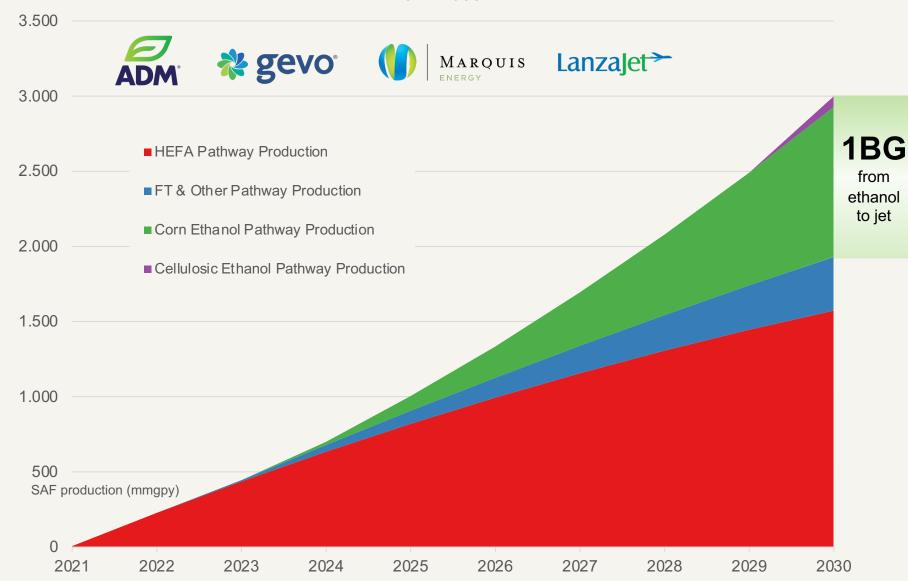


SAF Grand Challenge

3 Billion
Gallons by
2030

Fulfilment of U.S. SAF demand by year

2021-2030



Source: ICF

Questions?

Chris Bliley

cbliley@growthenergy.org

(202)579-7418

