

# **POWERED BY PARTNERSHIPS**

## **State of the U.S. Ethanol Industry**

**Geoff Cooper**  
**President and CEO**

**2024 National Ethanol Conference**

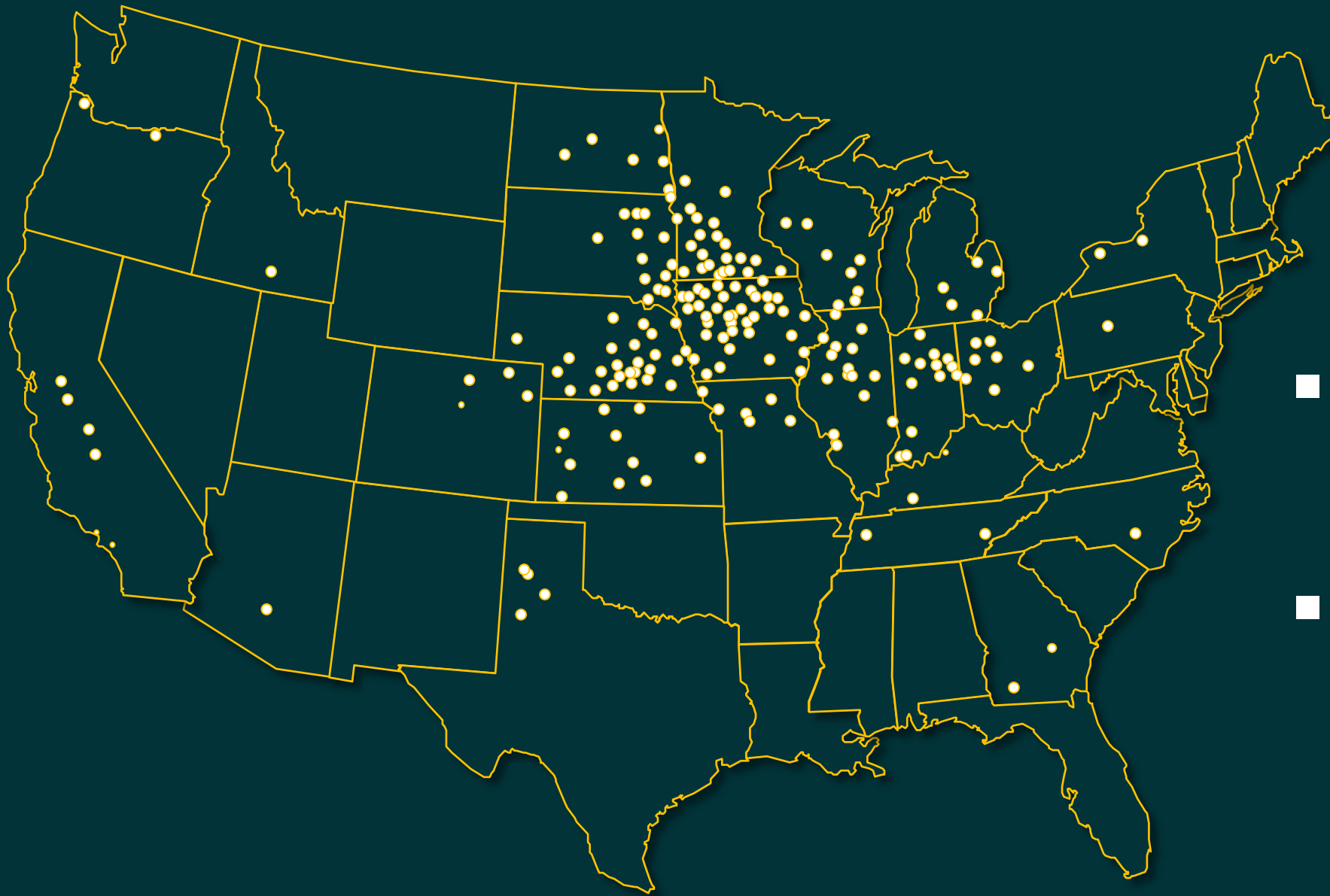




“John and I were two of the luckiest people in the twentieth century to have found each other. The **partnership**, the mix, was incredible. We both had submerged qualities that we each saw and knew.”

— *Paul McCartney*





- **198** biorefineries in **24** states
- **17.95** billion gallons of annual production capacity

# 2023 Industry Snapshot

## Ethanol Production

**15.6** Billion Gallons

## Animal Feed Output

**34.9** Million Metric Tons

## Distillers Oil Output

**4.3** Billion Pounds

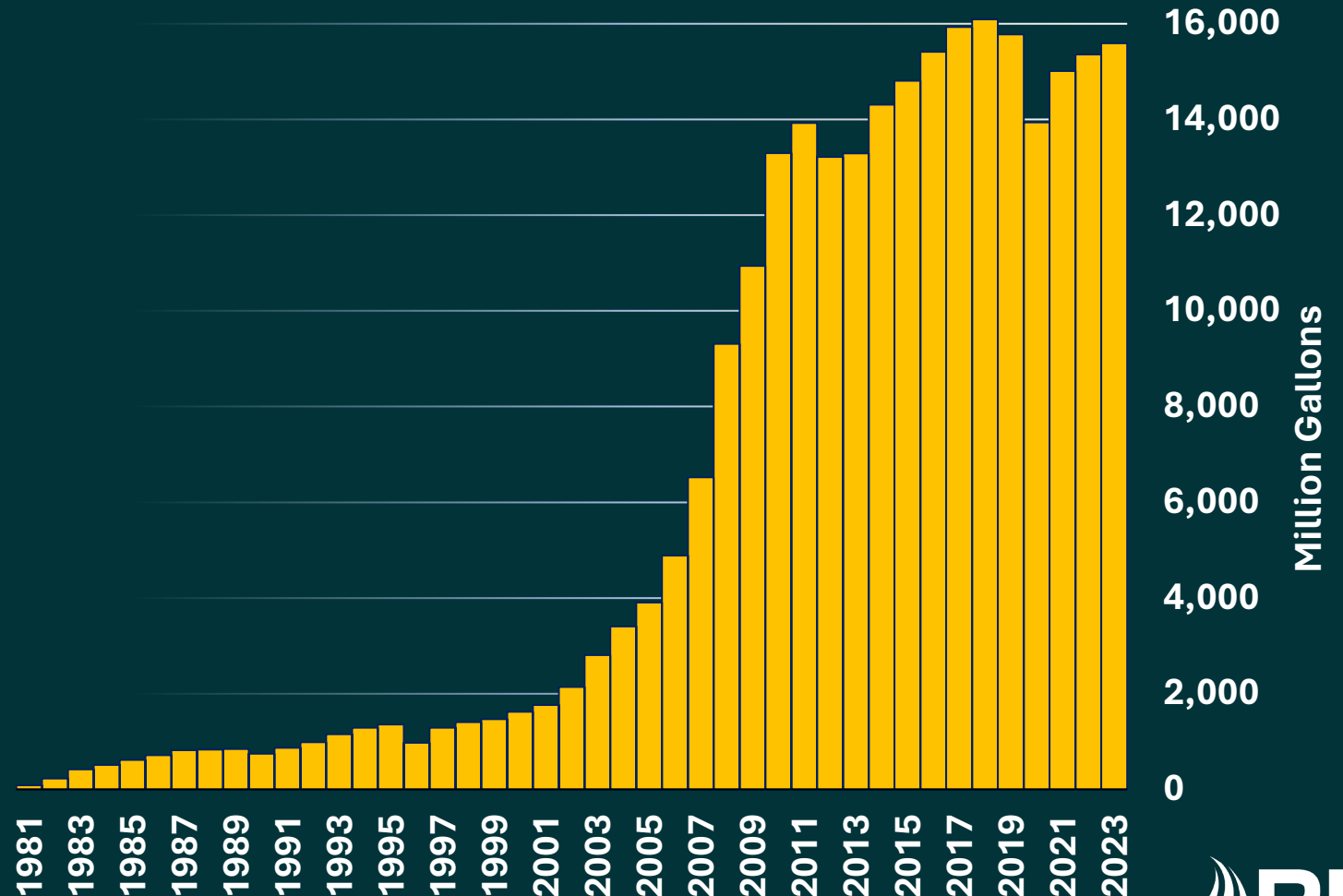
## Ethanol Inclusion Rate

**10.4 %**

## Ethanol Exports

**1.43** Billion Gallons

U.S. Ethanol Production



# 2023 Economic Impacts

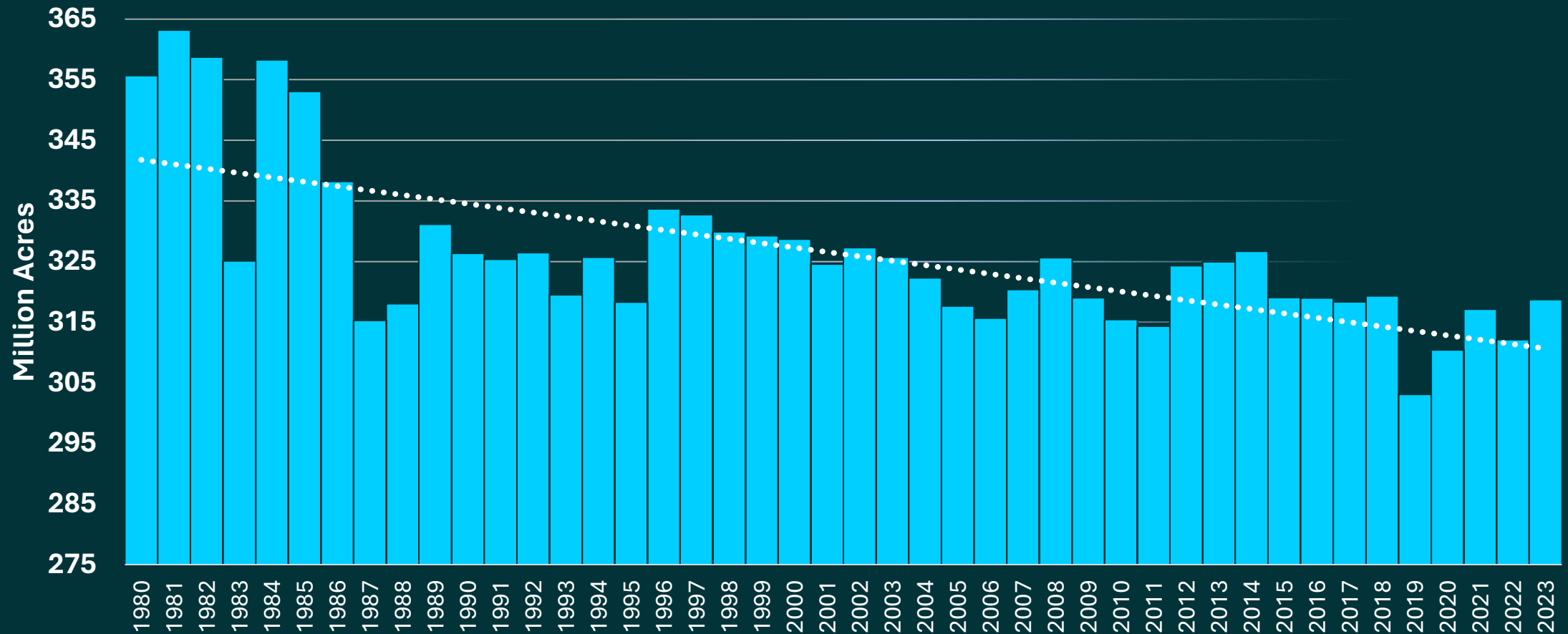
- **72,463** Direct Jobs
- **322,002** Indirect and Induced Jobs
- **\$54.2 Billion** in Gross Domestic Product
- **\$32.5 Billion** in Household Income

# Big Questions in 2024

- Will IRA tax credits (40B, 45Z) be properly implemented?
- EV mandates & ICE bans...or carbon reduction standards?
- Will we have year-round E15?
- What happens to the RFS post-2025?
- Will CCUS projects get final approval to move forward?
- How will the elections affect renewable fuel policies?

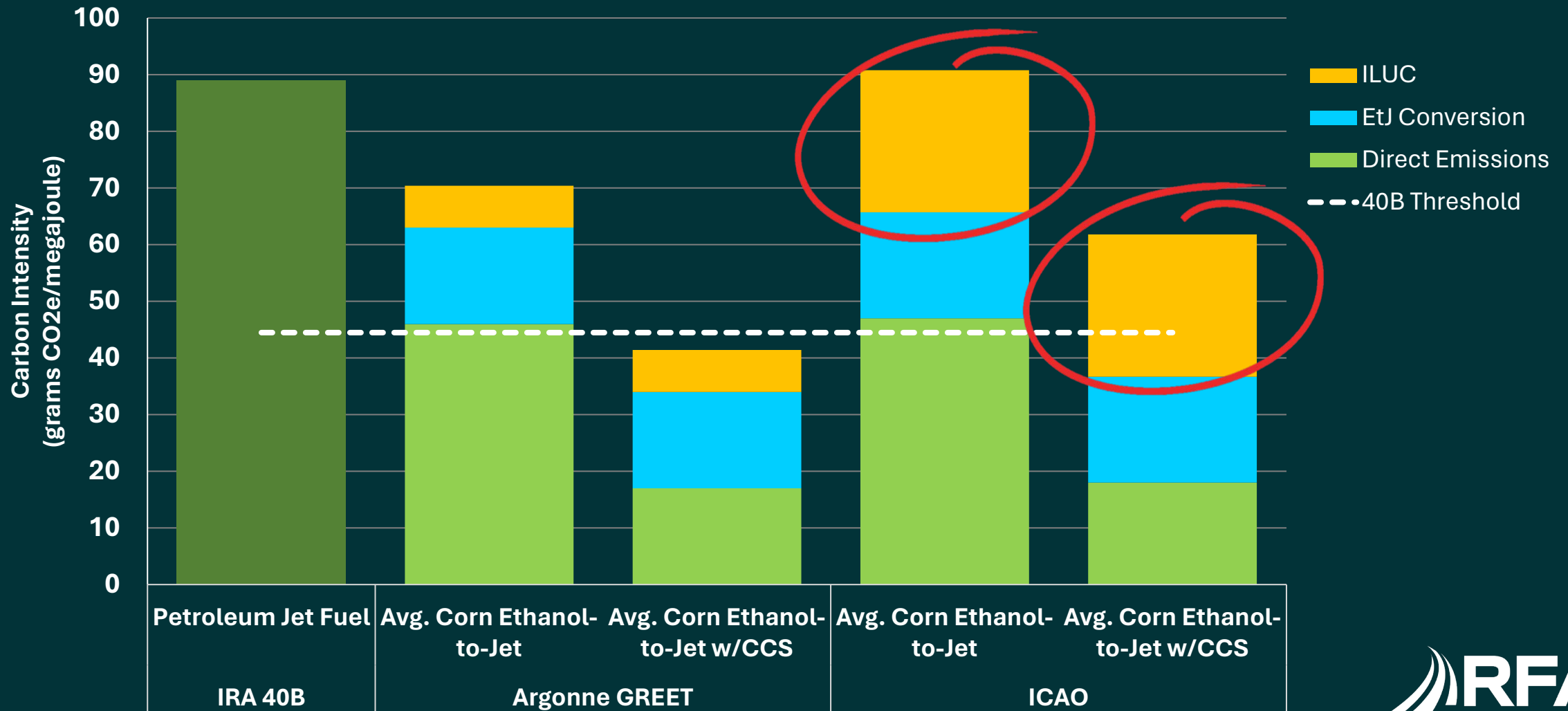
# U.S. Cropland Area

(Principal Crops Planted)



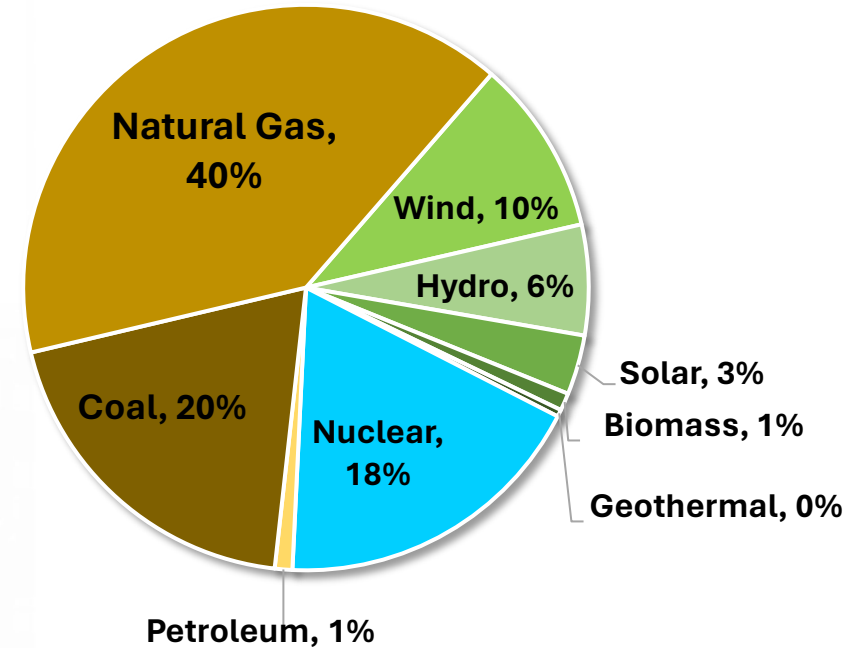
Source: U.S. Department of Agriculture

# REET vs. ICAO: Why it Matters



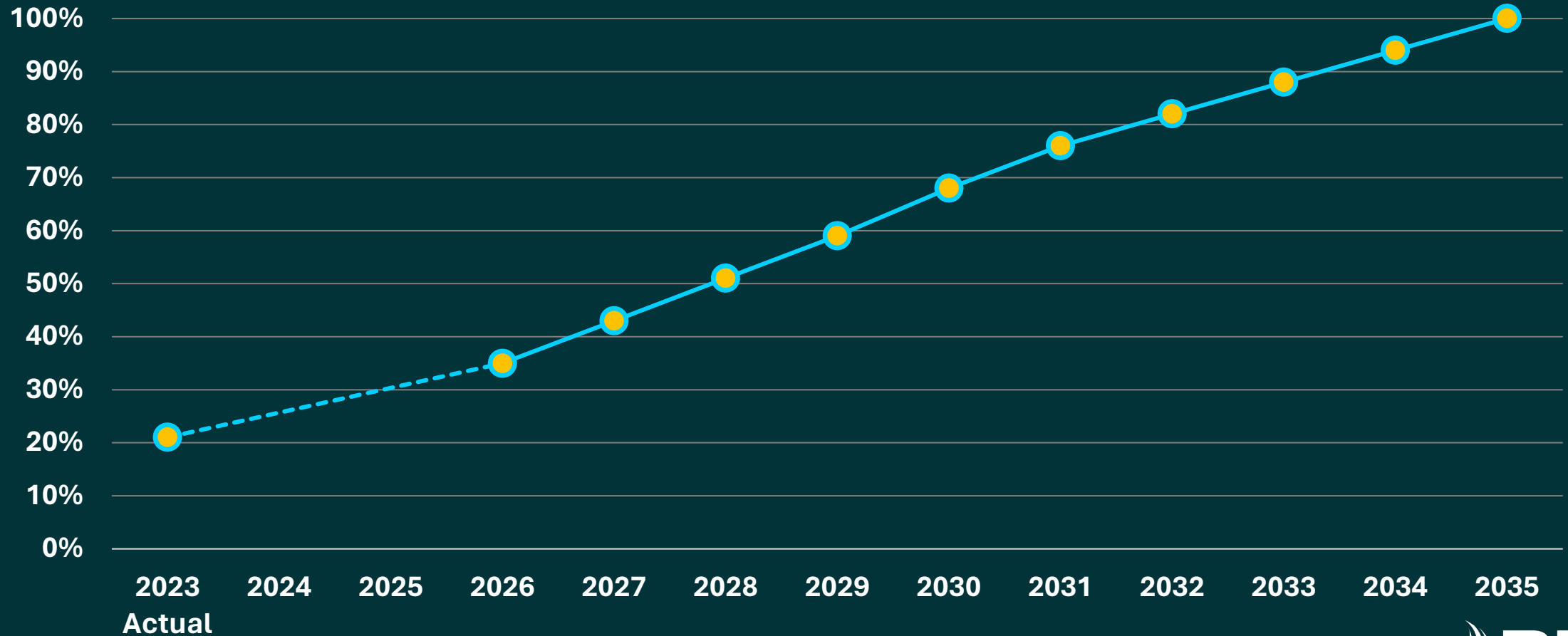


**Sources of  
U.S. Electricity 2022**

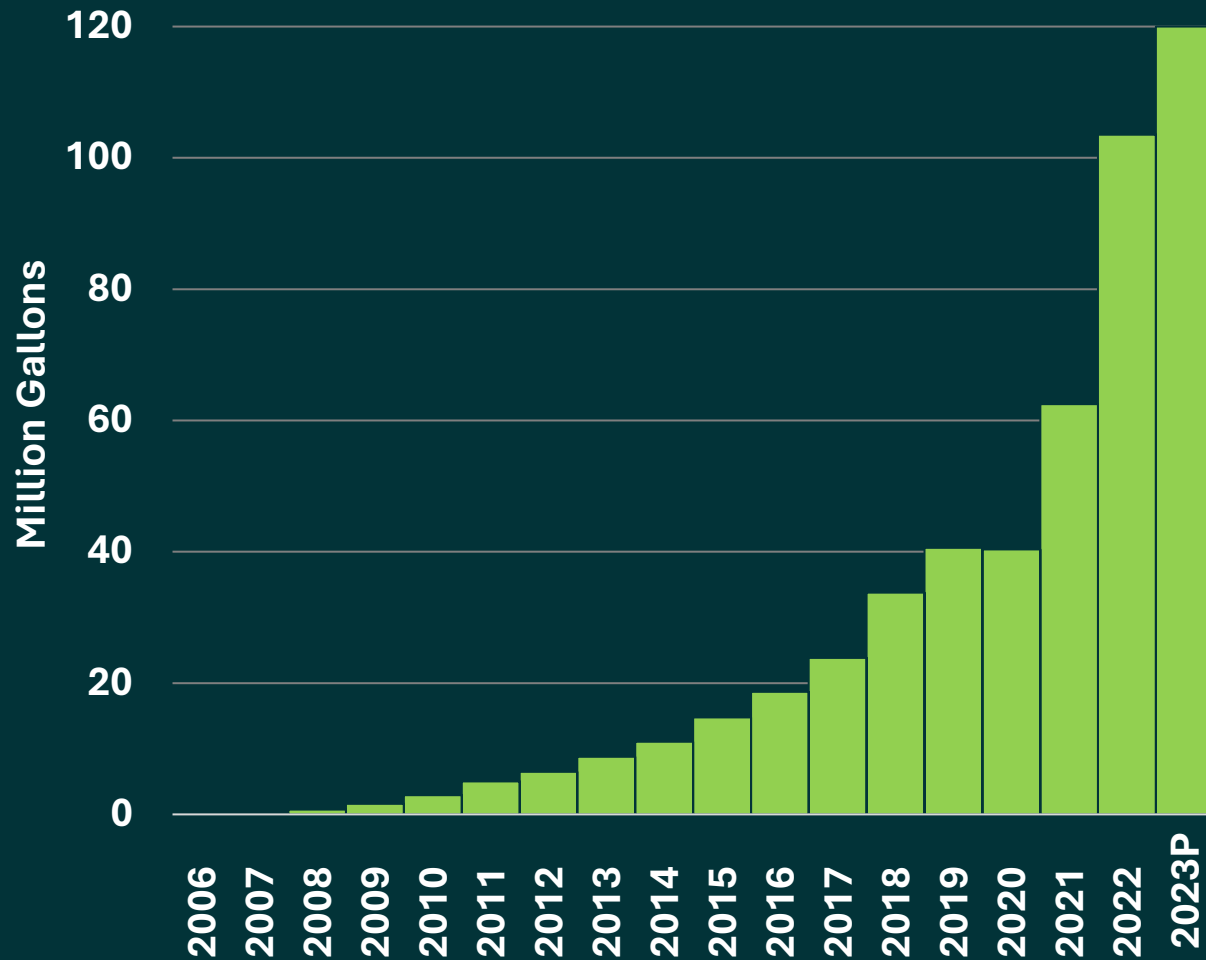


# California EV Mandate

Share of New California Light-Duty Sales that Must be BEV and PHEV



# California E85 Sales



Source: Calif. Air Resources Board (2006-2022); RFA, Pearson Fuels (2023 projection)



# Reducing the Carbon Intensity of Ethanol...

- Ensures corn ethanol can participate in **SAF opportunity and 40B**
- Opens the door to capturing **45Z Clean Fuel Production Credit**
- Positions ethanol to **compete with EVs** in low carbon markets
- Makes **year-round E15** even more attractive
- Strengthens the case for **expanded RFS volumes**
- Enhances corn ethanol **export demand**



