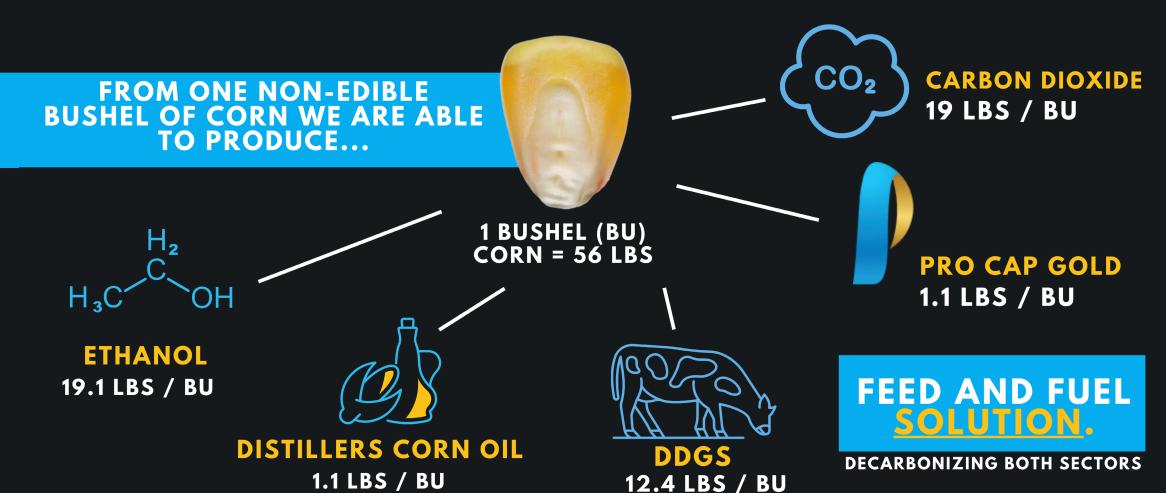


MARQUIS

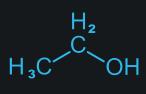


CORN: THE VALUE-ADDED CO-PRODUCTS DERIVED FROM OUR CORN INPUTS.





ETHANOL MARKET TODAY









DISTILLERS CORN OIL



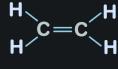
HYDROGEN



ETHANOL MARKET TOMORROW





















WHAT'S AHEAD FOR US: PROJECT TIMELINE INVESTMENTS MADE IN AMERICAN BIOENERGY



WE'RE INVESTING IN TOMORROW, TODAY.



CO₂ FROM THE ETHANOL INDUSTRY:

40,841,335 tons CO₂ per year

Size of Opportunities* 50 MGPY 137,000 tons 150 MGPY 413,000 tons 395 MGPY 1,000,000 tons

Combustion Gas: 600,000 Tons CO2

Typical Constituent Concentrations

Component	CO₂ Specifications	Presence
CO ₂	96.61%	Major constituent of CO₂ stream
Oxygen	<0.05%	Indicator of atmospheric contribution
Nitrogen	<0.1%	Minor constituent of CO₂ stream
Water Vapor	3.25%	Present in CO₂ gas
Hydrogen sulfide (H₂S)	<0.002%	Not Expected to be Present
Hydrocarbons	60ppm	Primarily ethanol, acetic acid, ethyl acetate



Regulatory markets row crops





LCA
Considerations

Energy Usage

Marquis Awarded DOE Funding



Department of Energy

U.S. Department of Energy Awards \$118 Million to Accelerate Domestic Biofuel **Production**

JANUARY 26, 2023



Marquis

considered waste.

1.197 followers

Marquis has been chosen as 1 of 17 recipients of grant funding to support our work in decarbonizing domestic biofuel production. Thank you to the U.S. Department of Energy (DOE) for helping us demonstrate how to unlock new paths to the decarbonization in biofuels - making energy from what is today











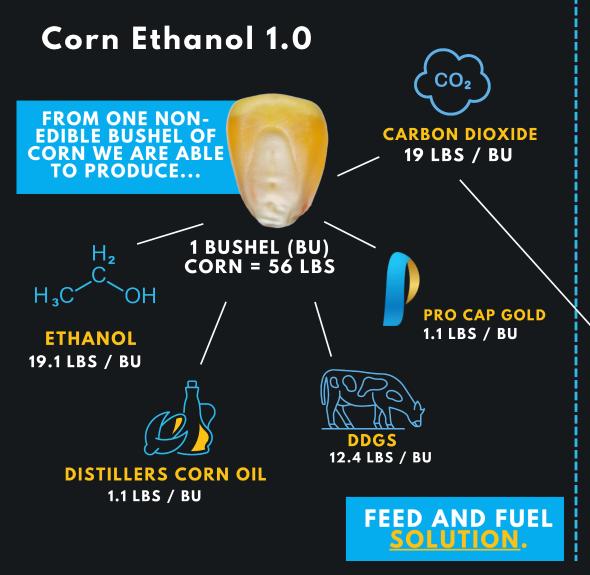


Energy.gov » U.S. Department of Energy Awards \$118 Million to Accelerate Domestic Biofuel Production

17 Projects Will Boost Production of Biofuels for Consumer and Freight Transportation in America, Support President Biden's Decarbonization and Climate Agenda

WASHINGTON, D.C. — The U.S. Department of Energy (DOE) today announced \$118 million in funding for 17 projects to accelerate the production of sustainable biofuels for America's transportation and manufacturing needs. The selected projects, located at universities and private companies, will drive the domestic production of biofuels and bioproducts by advancing biorefinery development, from pre-pilot to demonstration, to create sustainable fuels that reduce emissions associated with fossil fuels. Funding for this opportunity supports President Biden's goals to deliver an equitable, clean energy future, and put the United States on a path to achieve net-zero emissions, economy-





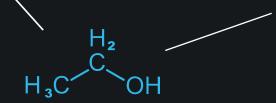
Corn Ethanol 2.0: Carbon Refining

E-Ethanol

Integrate LanzaTech gas fermentation into Marquis Industrial Complex

- Maximizes resources (land, water, fertilizer)
- Reduces carbon intensity
- Increases revenue / jobs









ETHANOL 9.5 LBS / BU





