

Dora C. Branyan

Director, Sustainability & External Relations



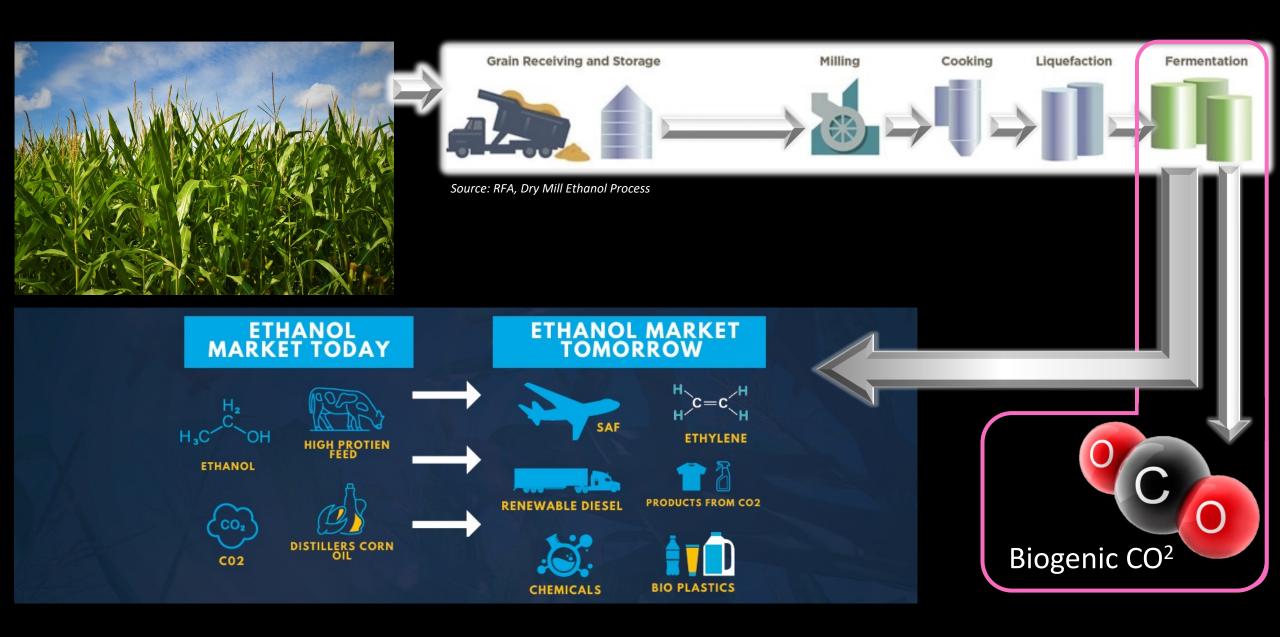
MARQUIS

ENERGY GLOBAL

"Creating a Sustainable World for Future Generations"



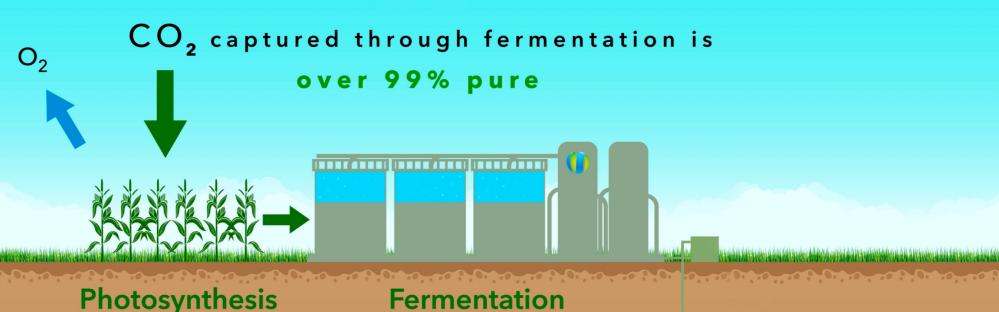
Building a circular economy





BioEnergy Carbon Capture & Sequestration





Fermentation

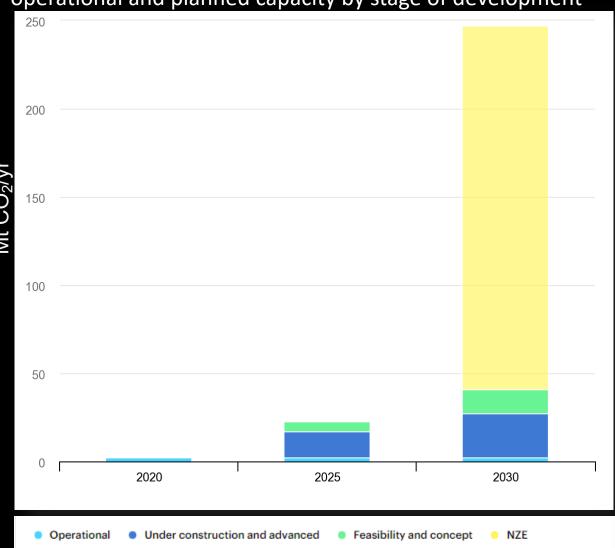
Captured CO₂ is injected deep underground for permanent storage

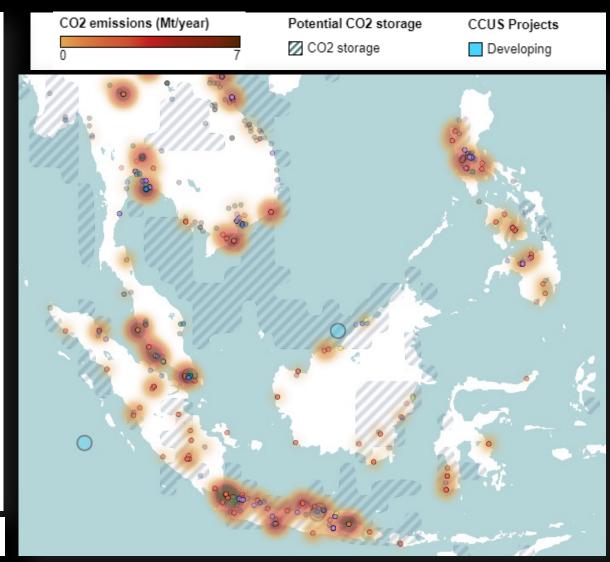


Technology based solutions for CO₂ removal

BioEnergy Carbon Capture and Storage (BECCS)

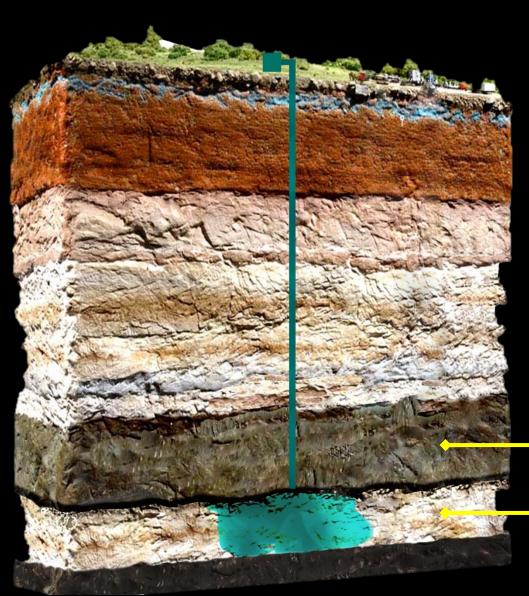
operational and planned capacity by stage of development







Location, location, location

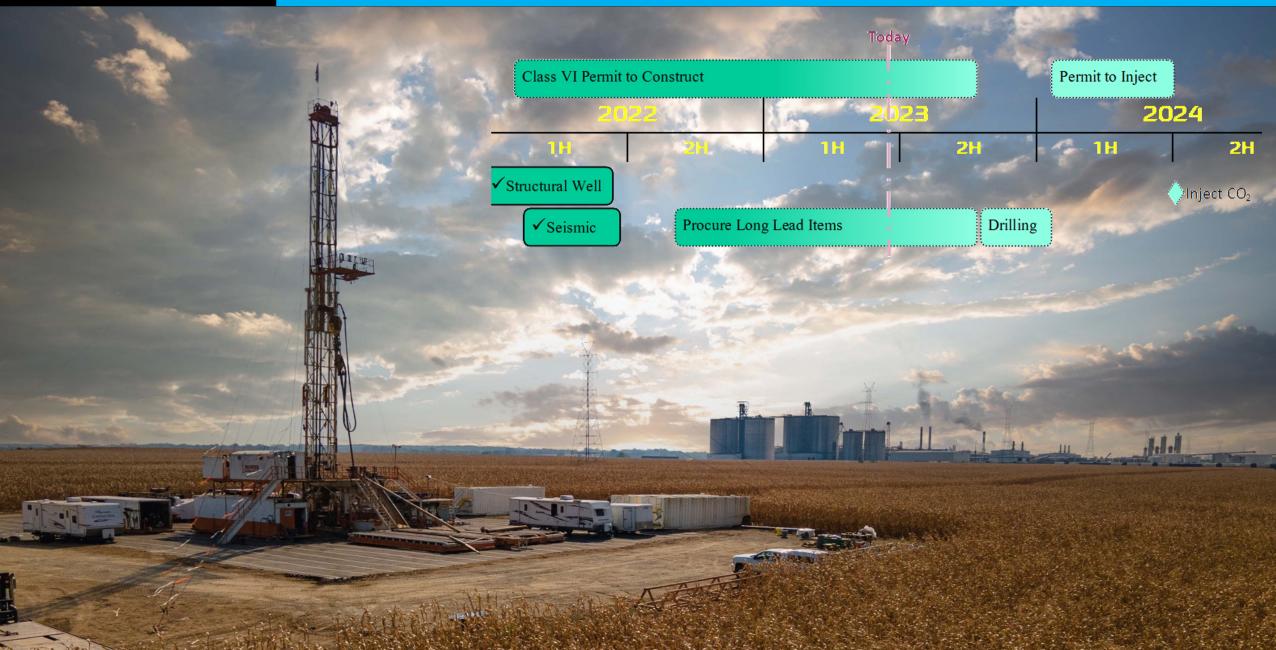








Path to decarbonization





The Marquis impact with BECCS

OUR CARBON CAPTURE IMPACT.

ONE DAY: 3,200 MT (METRIC TONS OF BIOGENIC CO2)

ONE YEAR: OVER 1,200,000 MT (METRIC TONS OF BIOGENIC CO2)

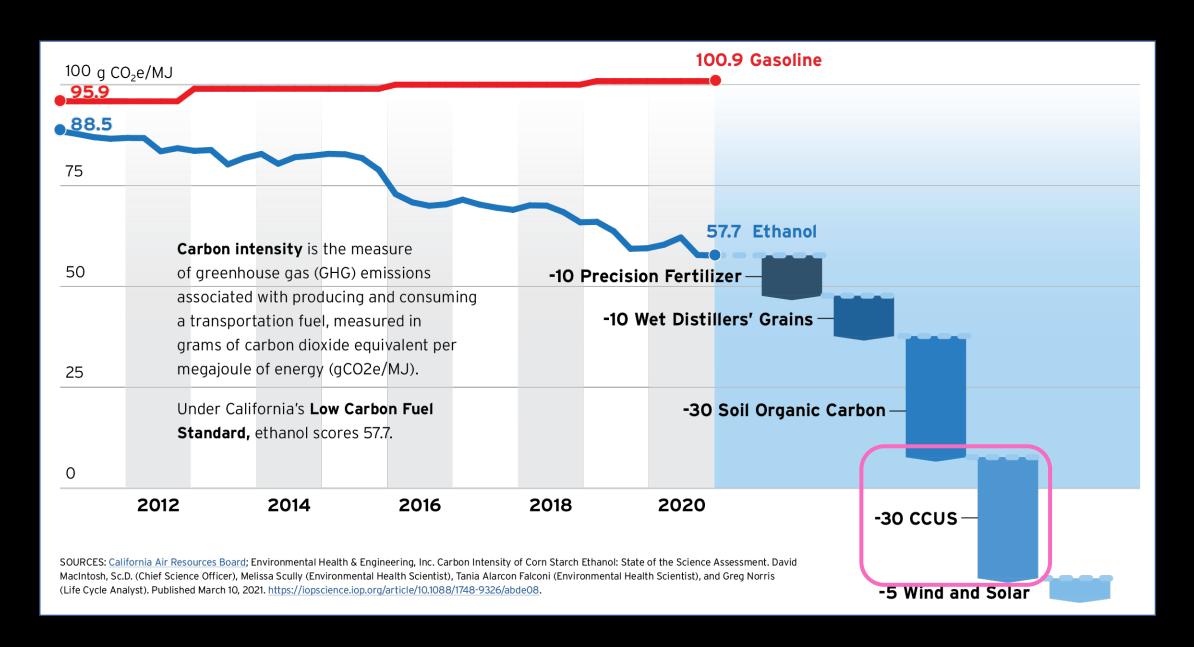
LIFESPAN OF PROJECT: 14,400,000 MT (METRIC TONS OF BIOGENIC CO2) THIS IS EQUIVALENT TO THE (ANNUAL) CO2 EMISSIONS OF ROUGHLY...

- 200,000 CARS PER YEAR
- 2,500,000,000 MILES DRIVEN, OR
- •1,000,000,000 LBS. OF COAL.

ACCELERATING THE DECARBONIZATION OF TRANSPORTATION AND ENERGY THROUGH GEOLOGICAL STORAGE.



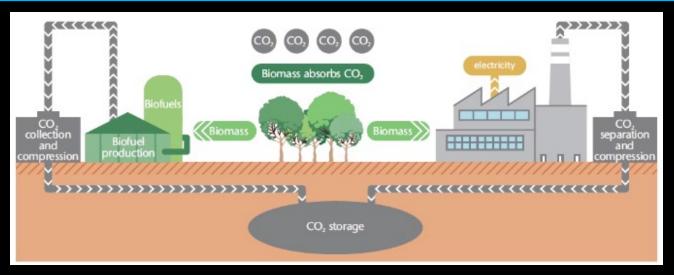
What this does on the bio-ethanol industry





Potential in the region

- ✓ Bio-energy production facilities
- ✓ Sufficient geology
- ✓ CO₂ transport infrastructure?



CCUS Projects & Investments (per IEA website)		
Australia	Eni, Santos	MOU to explore re-purposing Bayu-Undan offshore gas facilities in Timor-Leste and CCUS opportunities in Darwin
Singapore	ExxonMobil	Plans for a CCS hub concept
Malaysia	Petronas	CCUS technology at the Kasawari gas facility with first injection into a depleted gas field planned 2025
Australia	Australian & Japanese energy & shipping companies	MOU to consider the deepC Store Project, offshore CCUS hub in northern Australia
Indonesia	J-POWER, Japan NUS Co, PT Pertamina	CO2 storage at Gundih gas field in Central Java
Indonesia	Repsol SA	Study for a large-scale CCUS project in Sakakemang Block natural gas development in South Sumatra



Clean Carbon Removal Technology

Carbon NEGATIVE potential bio-energy

Location critical

Immediate impact for Environment

Thank you!

www.marquisinc.com



