



* High Value Co-Products Increase Sales and Revenue

Presentation to Fuel Ethanol Workshop 2026

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- * Ethanol margins are compressed
- * Producers need higher-value outlets for existing feedstocks
- * Isobutanol can diversify plant revenue instead of relying on one fuel product

*** Why Ethanol Producers
Should Care?**

- * Higher additive rate than ethanol (25% to 60% higher)
- * Higher BTU content (100,000 btu/gallon)
- * Lower vapor pressure after blending (1 psi lower) 1.3 RINS per gallon!
- * Hydrophobic behavior makes it more friendly to small engines

* Why Isobutanol is
Attractive?

- * Isobutanol increases gasoline octane, and
- * Lowers vapor pressure of gasoline blend
- * Converts Premium Gasoline blends to an ethanol-free gasoline for e-free markets
- * Ethanol-free gasoline is a growth market (Iowa Gasoline Report) with 5% p.a. growth

***Market Value in Blending**

- * Delivers gas station owners volume and margin gains
- * Premium e-free sells at a meaningful mark up
- * Lots of endorsements from National Marine Manufacturers Association and boat engine makers like Suzuki Marine, it is a Sustainable Drop in Gasoline

***Why Retailers Buy It**

- * Higher octane
- * Better fuel compatibility with small engines
- * Reduces evaporative and tailpipe emissions
- * Eliminates phase separation and water uptake

*** Why Consumers Buy It**

- * Decant Isobutanol from ethanol fermentation as a co-product
- * Use Specialized Yeast to increase Isobutanol Yield: **GEVO & Butamax**
- * Add Catalytic Conversion to yield Isobutanol from Ethanol and Fusel Oil.
Terra Mater and Catalyxx

** This process separates water as well*

* **Production Pathways from Ethanol**

- * Existing plants already have feedstock, utilities, logistics and fermentation expertise
- * Create another revenue stream with a product that sells at a higher price from the same inputs
- * Monetize more of the carbon value per ton or bushel

*** Business Case for
Producers**



*Where is the product sold today?



* Our first convenience
store customer 2015

- * Call us at 281-496-5100
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* Need more
information?