



**Increase Your *Corn to Fuel Conversion Efficiency* With
GS CleanTech's Ethanol Technologies**



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Who We Are:

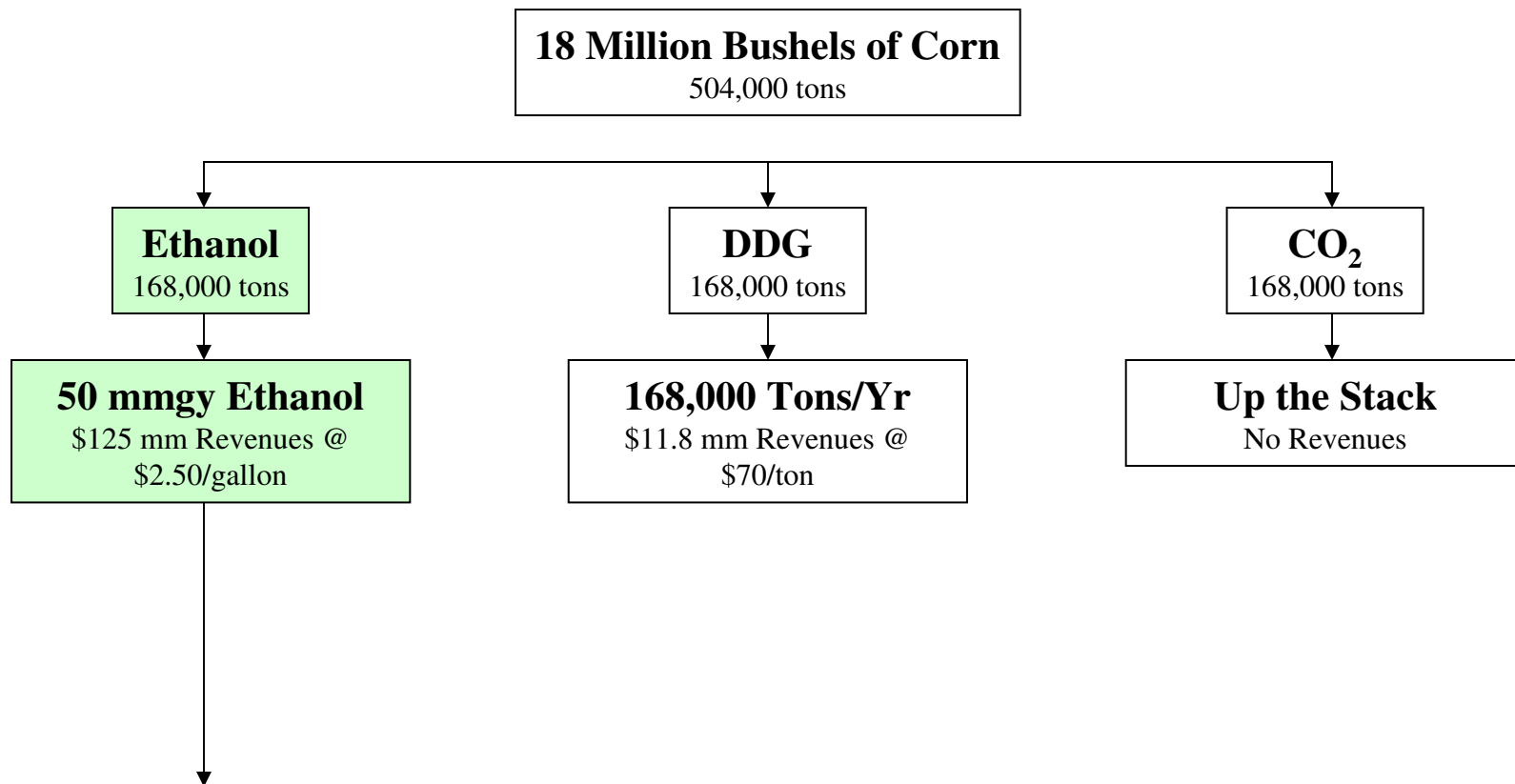
- GS CleanTech provides applied engineering and clean technology transfer services that can enhance your bottom line by making it **cost-effective** and **easy** for you to recycle and reuse resources.
- Our team is focused on delivering technologies and process innovations to the **Ethanol Production Industry** – our ambition is to **maximize the fuel yield** out of your **existing crop**.

How We Do It:

- We **install our turn-key Corn Oil Extraction System (COES)** in your plant ...
- ... that we use to **extract crude corn oil** from your distillers dried grains ...
- ... that we buy from you at a **premium** ...
- ... and convert into **biodiesel** ...
- ... which is either sold back to you at a **discount** or sold to third parties, in which case you receive **a percentage of the biodiesel sales**.



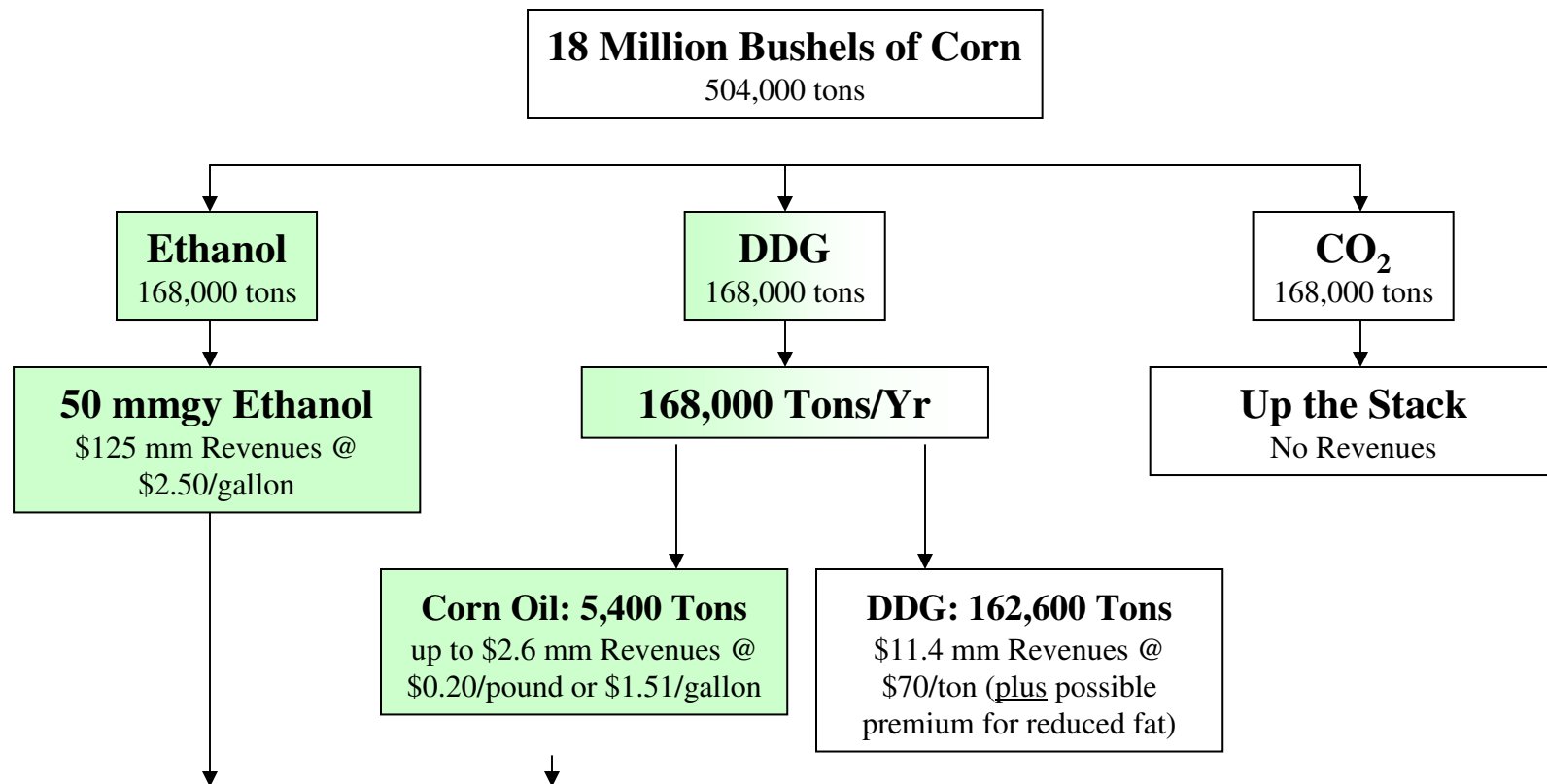
Current Corn to Fuel Conversion Efficiency (“CFE”) (50 mmgy plant):



- Current CFE = (50 mmgy ethanol) / (18 mm bushels corn) = **2.77 gal/bushel**
- Estimated Current Plant Revenues: \$136.8 mm



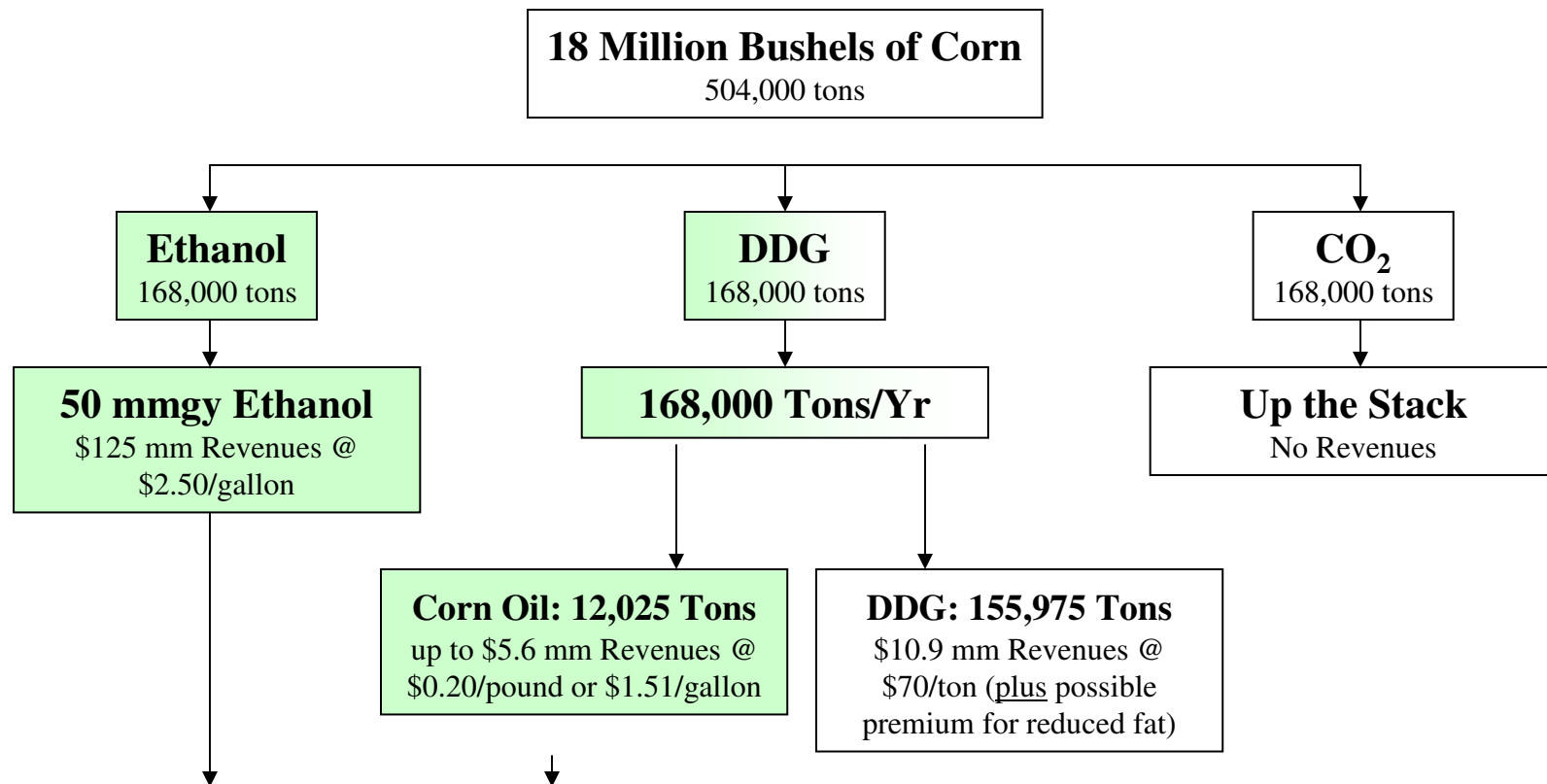
CFE After Installation of GS CleanTech's COES (50 mmgy plant) – Extraction Method #1



- Post-COES = ((50 mmgy ethanol) + (1.5 mmgy biodiesel)) / (18 mm bushel corn) = **2.85 gal/bushel**
- Estimated Post-COES Total Plant Revenues: \$139.0 mm ... **up to ~ 1.6% increase in revenues**



CFE After Installation of GS CleanTech’s COES (50 mmgy plant) – Extraction Method #2



- Post-COES = ((50 mmgy ethanol) + (3.25 mmgy biodiesel)) / (18 mm bushel corn) = **2.94 gal/bushel**
- Estimated Post-COES Total Plant Revenues: \$141.5 mm ... **up to ~ 3.5% increase in revenues**



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Our Rental Program:

- We install our turn-key COES at your facility for **no up front cost** ...
- We buy crude corn oil from you at **53% of Diesel Spot**, or about **\$0.15 per pound** ...
(we guarantee a minimum purchase price of \$0.10 per pound for so long as the tax credit is unchanged)

Our Purchase Program:

- We install our turn-key COES at your facility for **about \$6 million (50 mmgy plant)** ...
- We buy crude corn oil from you at **70% of Diesel Spot**, or about **\$0.21 per pound** ...
(we guarantee a minimum purchase price of \$0.10 per pound for so long as the tax credit is unchanged)



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Other Features and Benefits of Corn Oil Extraction:

- **Increased inclusion rates** - Corn oil removal can improve DDG marketability and inclusion rates by reducing fat content.
- **Reduced operating costs and emissions** - Corn oil removal can improve drying efficiency by up to 20% with reduced natural gas or coal needs & reduced emissions (NO_x, SO_x, CO₂ and VOCs).
- **Risk diversification** - Corn oil sales hedge your facility against declining DDG prices in the future.
- **No downside on corn oil sales** - you are protected from downside fluctuation in crude corn oil prices with our guaranteed minimum purchase price of \$0.10 per pound for so long as the biodiesel tax credit remains unchanged.
- **Upside on corn oil sales** - you facility benefits from any increase in crude corn oil prices since our program ties your corn oil sales to diesel and biodiesel.
- **Full service process support** - GS CleanTech's process engineers and technical support staff are available to resolve your needs.



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**Co-Location of Biodiesel Facility:
For total ethanol production >150 mmgy**

- GS CleanTech's sister company, **GS AgriFuels**, proposes to lease property adjacent to your ethanol facility.
- GS AgriFuels would immediately commence development of a **10 mmgy biodiesel facility** ...
- GS AgriFuels would purchase utilities (e.g., steam, rail) and provide process waters ...
- Our biodiesel process technology is **easily scalable** to accommodate additional expansion ...
- Proximity **improves operating economics** for all parties.
- Production of **second clean fuel** at the clean fuels campus **stimulates regional economy** and is good for **the local community**.



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We Are Eager to Earn Your Business - How Do We Get Started?

- Timing for path forward:
 - Contract editing and execution
 - Deployment schedule
 - Planning for future expansion



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GS CleanTech's Technology Development Plans:

- We intend to remain relentlessly focused on **increasing the fuel yield** out of your **existing crop** – our other areas of technology development:
 - **Corn Stover**
 - **Defatted DDGs**
 - **CO₂**

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