

A close-up photograph of several green leaves with prominent veins and numerous small water droplets on their surfaces. The leaves are arranged in a fan-like pattern, filling the entire frame. The lighting is bright, highlighting the texture and color of the foliage.

Renewable Diesel - A Primer

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Renewable Diesel -A Primer

- ③ What renewable diesel (RD) is
- ③ Benefits –significant carbon reduction
- ③ How it is produced
- ③ Renewable fuels supply chain & infrastructure
 - ③ Sources and shifts in modes of transportation



What is Renewable Diesel?

- ③ Fossil vs. renewable diesel → lower carbon alternative
 - ③ “Drop-in fuel” meeting ASTM 975
- ③ Feedstocks
- ③ “Renewable diesel is *not* biodiesel”

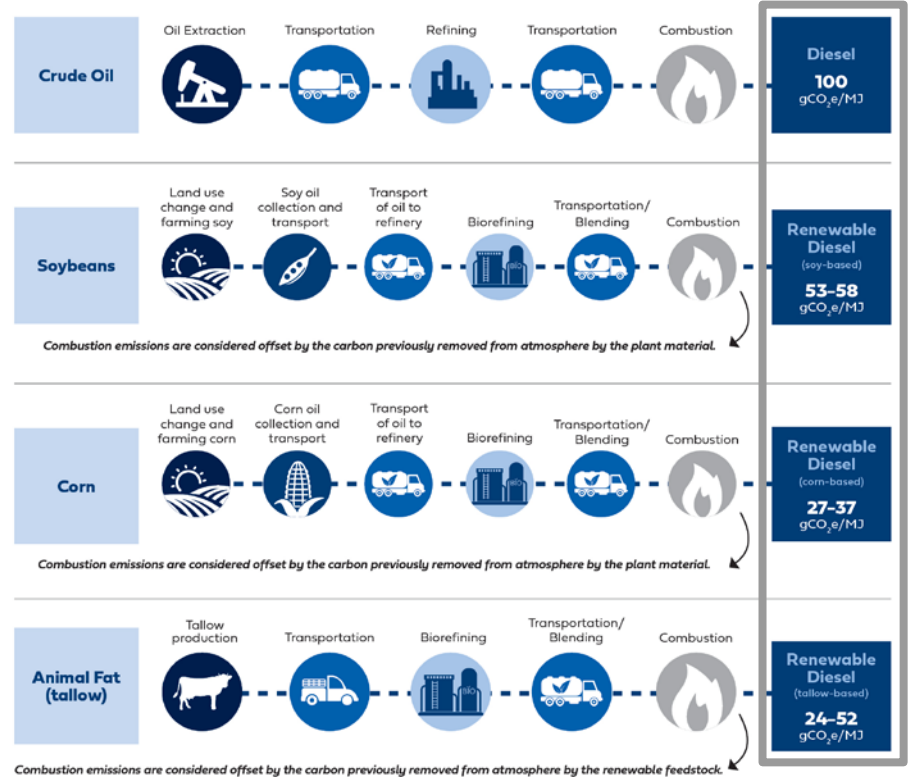
Lifecycle GHG Emissions – CA LCFS

Renewable diesel can lower lifecycle GHG by ~40% to 75%

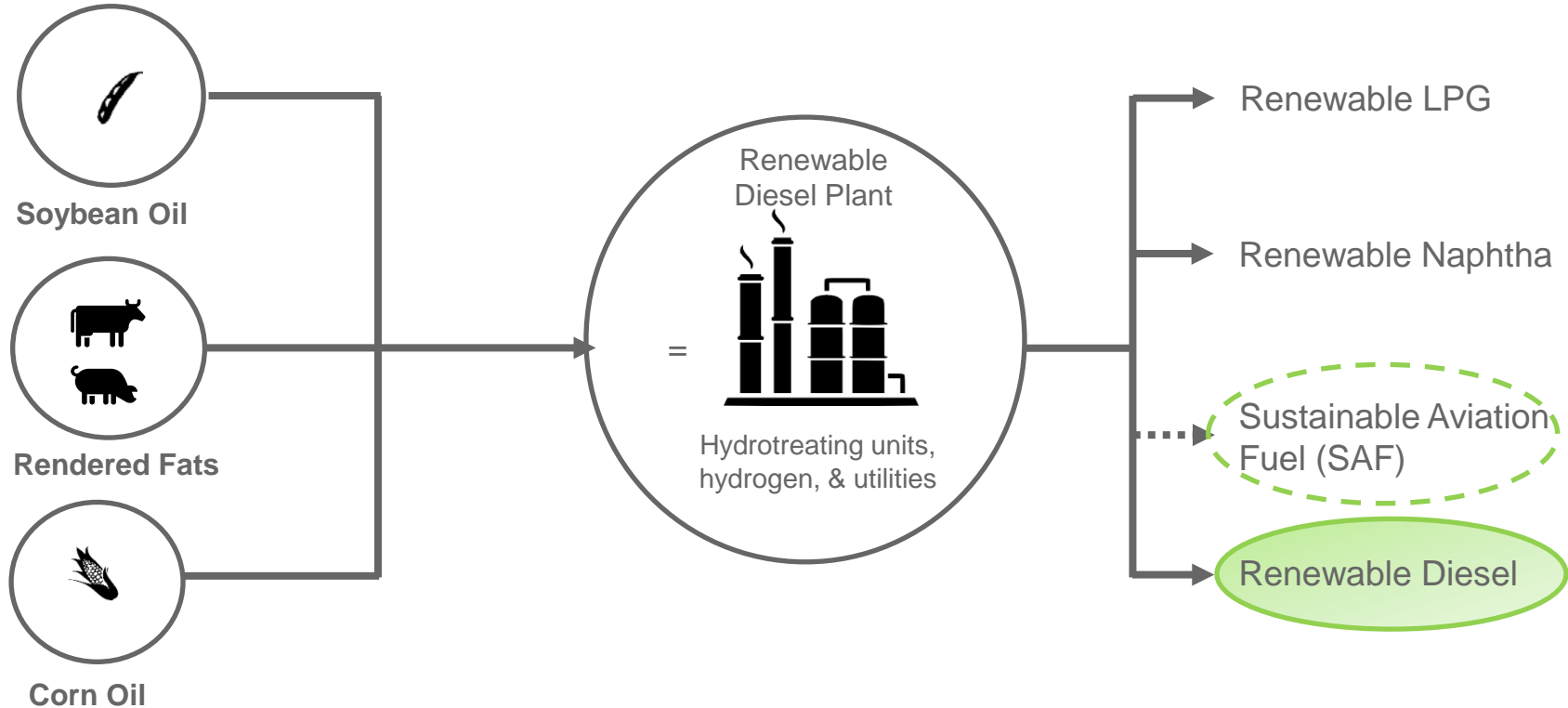
Soybean: ~40% to 50% reduction

Corn: ~65% to 75% reduction

Rendered Fats: ~50% to 75% reduction



Renewable Fuels Processing Simplified Overview



Renewable Fuels Supply Chain Overview

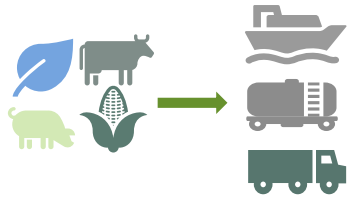
Feedstock Acquisition

Inbound Logistics

Processing

Outbound Logistics

Marketing & Sales



Feedstock production and acquisition



Transport feedstock through combination of truck, railcar & barge



Terminals allow for storage and transfer



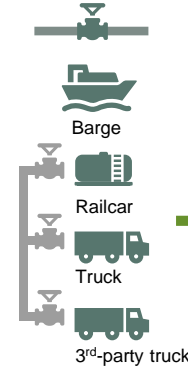
Renewable Fuels Facility

Processing the feedstock into renewable fuels

Renewable diesel



Terminals allow for storage and transfer



Transport feedstock through combination of truck, pipeline & barge



Branded and unbranded retail stores



Infrastructure Considerations

- Import finished RD or feedstocks
- May be able to repurpose existing refinery equipment for in-state production
- 3rd Party terminal modifications
- Compatible with current infrastructure (pipelines, terminals and retail stations)
 - Need to update RD labeling requirements to facilitate wide market entry
 - Animal fats may require heating



Spill Response (Industry Perspective)

- Contractor Readiness – MSRC and Star Contractor Equipment is sufficient for product collection and recovery. Various density of crude is similar to bio/renewables
- NOAA Fate and Effect Study – currently working through the legal agreement to provide renewable fuel sample to NOAA for study.

Questions?

