

THE MOBILE MICROREFINERY

A relocatable energy platform for
Alberta's distributed feedstock and fuel
markets

PRIVATE & CONFIDENTIAL | PRELIMINARY INVESTMENT CONCEPT | SEPTEMBER 2026

Prepared for Kevin O'Leary • Prepared by D. Bertrand

The thesis

Build a standardized process platform—not a one-off refinery.

RELOCATABLE

Trailerized and skid-mounted process modules can move between prepared industrial sites for seasonal feedstock, customer campaigns, service and redeployment.

REGIONAL

Start where Alberta already has crude, gas, utilities, contractors and fuel distribution: the Edmonton–Strathcona / Industrial Heartland corridor.

CONTRACTED

Secure feedstock and offtake before construction. Treat carbon value as upside—not as the only reason the economics work.

The recommended first asset is a 10–25 million litre-per-year renewable-hydrocarbon diesel plant. A crude hydroskimmer can follow after the platform demonstrates reliable supply, product quality and contracted demand.

Why this market, why now

Alberta combines feedstock, energy infrastructure and a policy-driven demand signal.

5%	2%	449,000+ km	30–48 mo.
Minimum renewable alcohol content in Alberta gasoline	Minimum bio-based diesel content in Alberta diesel	Pipeline network reported by the AER	Target range to first commercial product for the recommended case

Alberta’s Renewable Fuels Standard requires fuel suppliers to achieve annual-average renewable content and requires qualifying renewable fuels to demonstrate at least 25% lower life-cycle greenhouse-gas emissions than equivalent petroleum fuel. Federal Clean Fuel Regulations add a national carbon-intensity and credit framework. [web:96][web:97][web:98]

The market is attractive—but not automatic. Incumbent refineries, feedstock competition, logistics and product certification make disciplined execution essential.

The platform

One standardized interface. Multiple process packages.

FEEDSTOCK DOCK	PROCESS MODULES	PRODUCT DOCK
Waste oils • tallow • crude/condensate Truck / rail receipt Lab acceptance	Pretreatment • hydrotreating Distillation • stabilization Controls • safety • utilities	Renewable diesel • diesel Naphtha • LPG • fuel gas Truck rack / future rail

Semi-mobile is the bankable design: move the process modules; retain or lease standardized site infrastructure such as tankage, firewater, utilities, wastewater controls and loading. This preserves redeployment without pretending the plant is plug-and-play.

The first commercial product

Renewable hydrocarbon diesel: a drop-in product with multiple regional buyers.

INPUT	PROCESS	OUTPUT	CUSTOMERS
Used cooking oil, tallow, agricultural oils and qualified residues.	Pretreatment → hydrogenation → optional hydroisomerization → fractionation → testing.	Renewable diesel, renewable naphtha, propane/light gases and process fuel gas.	Fleet operators, cardlocks, agriculture, construction, municipalities, marine and industrial distributors.

Canada's fuel regulations and the emerging Canadian renewable-diesel market support a lower-carbon fuel thesis. Renewable diesel can be made from fats, oils and residues through hydrogenation; it is distinct from FAME biodiesel produced by transesterification. [web:67][web:74][web:84]

Alberta deployment

A hub-and-satellite network anchored in the Industrial Heartland.

ALBERTA FEEDSTOCK SOURCES Food processors • renderers • farms • crude/condensate marketers	EDMONTON / STRATHCONA HUB Utilities • gas • hydrogen options • skilled labour • storage • testing • maintenance	REGIONAL MARKET Fuel wholesalers • fleets • propane suppliers • industrial customers
--	---	--

Alberta’s Industrial Heartland is a practical anchor because the region has an established concentration of energy, petrochemical and pipeline infrastructure. The AER reports a very large provincial pipeline network, while Alberta’s crude and natural-gas systems provide access to established commodity markets. [web:52][web:107]

Capital and schedule

Stage capital against evidence.

Configuration	Indicative CAPEX	First product	Investment posture
Renewable diesel / HDRD 10–25 ML/y	C\$35–100M	30–48 months	Recommended first asset
Topping refinery 1,000–3,000 bbl/d	C\$100–250M	42–60 months	Only with contracted crude/offtake
Hydroskimmer 2,000–5,000 bbl/d	C\$250–700M	48–66 months	Expansion option
Full conversion	C\$1B+	60–96+ months	Not the first move

A large Canadian renewable-diesel reference project has been publicly reported at approximately C\$720M, illustrating why the proposed asset must be smaller, modular and staged. These microrefinery figures are screening ranges, not vendor quotations or bankable estimates. [web:93]

Route to market

Sell B2B, load locally, scale distribution only after utilization is proven.

1	2	3	4	5
Contract Feedstock + offtake	Process Certified production	Load Truck rack / tank farm	Deliver Regional suppliers	Expand Rail / terminal / pipeline

Target customers: independent gasoline and diesel wholesalers, agriculture and construction fleets, municipalities, cardlock operators, remote industrial customers, marine-fuel distributors and propane wholesalers. Product must meet applicable Canadian fuel specifications; CAN/CGSB-3.517-2025 covers Type A and Type B diesel for on-road and off-road applications. [web:88]

The investor gate

No full construction capital until the evidence is real.

GATE 1	90-day validation	Feedstock assays • site shortlist • vendor budgets • customer LOIs
GATE 2	FEED + permitting	Mass balance • environmental pathway • utility study • safety basis
GATE 3	Bankability	60–80% first-year offtake • supply contracts • downside model
GATE 4	Construction	Fixed-price packages where practical • contingency • performance guarantees
GATE 5	Replication	Proven utilization • product quality • positive contribution margin

The investment should be structured as milestone capital. If feedstock is expensive, product is off-spec, permitting is uncertain or the downside case depends on credits, stop or redesign before construction.

Why this can win

An asset-backed, repeatable regional infrastructure business.

ASSET-BACKED	REPEATABLE	DATA-RICH	STRATEGIC EXIT
Process modules, storage interfaces and service infrastructure—not only software or credits.	A common design can be deployed near the next feedstock or customer cluster.	Remote monitoring, batch traceability, maintenance analytics and product certification.	Potential buyers include fuel distributors, waste-management firms, energy infrastructure operators and refiners.

Kevin, this is not a bet on building another giant refinery. It is a bet on making a smaller, disciplined energy asset easier to finance, move, service and replicate.

The ask

Authorize the validation phase.

C\$0.5–2M	90 DAYS	1 HUB + SATELLITES
Validation capital for feedstock, site, process and offtake diligence	To produce an investment-grade go / no-go package	A scalable Alberta deployment architecture

Deliverables: laboratory-validated feedstock map; site and utility memo; vendor budget quotes; regulatory pathway; product-quality plan; customer letters of intent; and a downside-tested financial model.

Recommendation: approve Stage 1 only. Proceed to FEED after the commercial evidence supports it.

THE MOBILE MICROREFINERY

A disciplined first step into distributed
Canadian fuel infrastructure.

PRIVATE & CONFIDENTIAL | PRELIMINARY CONCEPT — NOT AN OFFERING MEMORANDUM

Sources include Alberta.ca, Canada.ca, the Canada Energy Regulator, Alberta Energy Regulator, Standards Council of Canada, Advanced Biofuels Canada and Kevin O'Leary's official website. Inline markers identify research sources used in this draft. [web:108]