



# CIELO

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## Game Changing Technology Addresses Plastics Crisis & Overflowing Landfills

Cielo Waste Solutions Corp. is a renewable fuel company that has the exclusive global right to a patented technology that uses Thermal Catalytic Depolymerization (TCD). Cielo's technology converts multiple different waste feedstocks, such as organic waste, municipal solid waste, agriculture waste, tires, wood waste, along with all types of plastics and transforms them into high-grade renewable fuels: renewable transportation diesel, kerosene (jet/marine fuel) and naphtha.

Over the next 5 years Cielo plans to build 40 waste to renewable fuel facilities that will divert annually about 2.6 Million tonnes of waste from going into landfills by converting it into about 1.3 Billion liters of renewable diesel fuel.



## Who We Are?

- ✓ We are a waste solutions company producing **green** energy! Our solution just happens to be highly **profitable**.
- ✓ Proprietary Technology. Cielo has a game changing technology. Cielo manufactures high-grade renewable diesel, kerosene (aviation jet and marine fuel) and naphtha. Cielo holds an exclusive license for the global rights to a patented proprietary technology (Canada and USA), capable of converting multiple waste streams into renewable fuel reducing greenhouse emissions (GHG's) and environmental hazards.
- ✓ Waste/Feedstock for Facilities. The feedstock that will be used in the Company's **green** facilities is the world's most available and inexpensive feedstock – garbage; including household, commercial/construction/demolition garbage, organics, used tires, railway ties, telephone poles as well as all seven types of plastic that currently pollute our world.
- ✓ Canadian Company with a Global Expansion Strategy. Cielo is headquartered in Alberta, Canada and plans to build and operate **green** facilities across North America as well as globally. With a long-term global expansion strategy, investors today will be buying into the North American expansion.
- ✓ Cielo will, with its planned 40 locations in the next 5-7 years, divert annually approximately 3.9M tonnes of waste, creating approximately 1.3 B liters of renewable fuel making us one of the fastest growing **ESG** companies in the world.
- ✓ Our facilities produce no harmful emissions.

## Our Process to Convert Waste

Cielo's process is referred to as Thermal Catalytic Depolymerization (TCD). Waste materials are liquified in the reactor with **green** power and blended with our proprietary catalyst. The catalyst causes an instant reaction and forms a distillate which is then distilled further into renewable transportation diesel, kerosene (jet/marine fuel) and naphtha.

[Investor Presentation](#) →

[Video - Corp. Overview](#) →

## The Cielo Advantage

- ✓ Cielo facilities can transform most household and industrial waste that currently goes to landfill into **valuable renewable fuels**.
- ✓ Our facilities operate with **no harmful emissions**.
- ✓ We help in greatly **reducing** methane emissions (**GHG's**) from landfills, as well as reduce reliance on imported biofuels made from agricultural products.
- ✓ Cielo is **highly profitable** without government assistance.
- ✓ Cielo's fuels can be used in **cold climates 365 days/year**, where traditional bio-diesel is used in the summer months only. This is especially important with aviation fuel and military applications.
- ✓ Carbon Credits/Tax Incentives. In addition to the Company's revenue and earnings, Cielo will enjoy multiple **credits and tax advantages**.

## Modular Manufacturing Model

- ✓ **Scalable Modular Model.** Cielo has developed a simple modular "plant" manufacturing system. Each "plant" can produce 4,000 liters per hour or 32 million liters per annum. This format allows for multiple "plants" to be built based on feedstock supply at each facility site. This also allows Cielo to build in more remote locations and eliminate many transportation issues/costs.
- ✓ **Economics.** Each "plant" costs approximately \$50 million to build. Pay back on the capital investment is approximately \$28 million annually based on EBITDA.
- ✓ **Facility Buildout.** In addition to the pilot/test facility in Aldersyde, Cielo also plans to complete one corporate facility and one JV facility by end of year 2023. With all three plants operating at full capacity Cielo expects to see revenues of approx. \$125 million in 2023, with expected EBITDA of approximately \$70 million.
- ✓ **Additional Facility Builds.** Cielo expects to build at least 1-2 corporate facilities over the next 24 months in addition to another 1-2 JV facilities. With 5-7 facilities in operation Cielo expects to realize in excess of \$350M in revenue and almost \$200 million in profits.

## Advantageous Economics Over Traditional Bio-Diesel

	Traditional Biodiesel	Cielo's Renewable Diesel
Production Cost/L	\$0.36 - \$0.50 (Avg \$0.43)	\$0.50
Feedstock Cost/L	\$0.85 - \$1.32 (Avg \$0.97)	\$0.06 - \$0.11
Total Cost	\$1.21 - \$1.82 (Avg \$1.40)	\$0.56 - \$0.61
Price in Alberta	\$1.25/Liter	\$1.67/Liter*
Gross Margin	-12 %	63.4 %

- Production Cost estimates are for a single modular "plant" of 4000 liters per hour. Where future facilities have more than one modular "plant" production costs will go down.  
 - Cielo's technology is fast! Where current traditional bio-diesel technology takes hours to convert our process takes only minutes, it is quick and energy efficient.  
 - Cielo can use a wide range of waste feedstocks for which many companies must pay a disposal fee.

## Investment Highlights

- ✓ **Exclusive License and Patents** - Cielo holds an exclusive global license from a related party and process patents have been issued in Canada and the US.
- ✓ **Sustainable Business** - Cielo is not reliant on government assistant.
- ✓ **No Canadian Competition** - There are currently no major renewable diesel producers in Canada that can sell into the Canadian market.
- ✓ **Achieved first sale** of commercially produced renewable diesel.
- ✓ **Ability to Use Waste Feedstocks** - unlimited availability at a low cost or in some cases, a negative cost.
- ✓ **Signed Multiple MOU's** for feedstock including a long-term supply agreement with CP Rail for scrap railroad ties and many others.
- ✓ **Signed Offtake Agreement** - Cielo has an offtake agreement for all it's renewable fuels and GHG Credits for every facility it operates in North America.
- ✓ **Mandated Demand** - Canadian Regulators have mandated minimum blends of renewable diesel into all transportation grade diesel, almost all of which currently is imported. These mandates have been consistently increasing year over year. (currently over 872M liters per year)