



CSE:CMC

“Leading the Future of Transforming
Waste to Renewable Fuels.”



Cielo Waste Solutions Corp.

January 2019 Corporate Presentation



Disclaimer

This presentation contains certain statements that may be deemed “forward-looking statements”. All statements in this document, other than statements of historical fact, that address events or developments that Cielo Waste Solutions Corp. (“Company”) expects to occur, are forward looking statements. Forward looking statements are statements that are not historical facts and are generally, but not always, identified by the words “expects”, “plans”, “anticipates”, “believes”, “intends”, “estimates”, “projects”, “potential” and similar expressions, or that events or conditions” will”, “would”, “may”, “could” or “should” occur.

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Corporate Profile

Cielo Waste Solutions Corp:

CSE:CMC

Market Data

52-Week Trading Range	\$0.09 - \$0.30
Shares Outstanding, Basic (M)	171.6
Incl. Warrants & Options, Diluted (M)	223.0
Market Capitalization (M)	~\$18.9
Total Liabilities Q2/19FYE	~\$7.4
Enterprise Value (M)	~\$26.3

* As of Jan 18/19



Source: www.stockwatch.com



Who is Cielo?

- Public company trading on the Canadian Securities Exchange - Symbol: CMC.
- Cielo has an exclusive global license from a related party to a technology that can convert multiple different waste streams into renewable diesel at a considerable lower cost than biofuel companies.
- Started Commission of first continuous flow refinery in Aldersyde, just south of Calgary, Ab.
- Waste – (Fibrous Waste) to renewable diesel refinery company.



The team



Don Allan
President & CEO

30+ years of executive leadership experience including experience in debt and equity capital markets, strategy and planning, risk management and investor relations. Extensive background in business development, engineering, marketing and project development.



Michael Yeung, CFA
VP Bus. Dev. & Capital Markets

Over 15+ years experience in public and private debt and equity markets. Experience in equity, debt, mergers and acquisitions, capital structure, valuations and research.



Dr. Roderick Facey
Chief Technology Advisor

Professional engineer with a doctorate degree from the University of Alberta. Chemical Systems, Structural, Environmental, Mechanical & Process Engineering Specialist



Shannon Wzykoski
Chief Financial Officer

Over 20 years' experience working with rapidly growing and changing companies. Past 10 years as a partner with the SSCR Corporate Solutions consulting group in Red Deer.



Stuart McCormick
VP Compliance & Reg. Affairs

30 years as Professional Civil and Environmental Engineer. Extensive experience in permits, business strategy, planning and project management.



The Board

**Don Allan,
Chairman**

- President & CEO of Cielo

Robin Ray

- CGA and Partner, MacNevin & Ray
- CFO and Director, MLB Industries

Chris Dovbniak

- Retired instrumentation technician
- 30 years experience in process management control and purchasing

Doug MacKenzie

- Former EVP Suncor (refining and Marketing),
- Former SR VP PetroCanada
- Previous CEO of Permolex International
- 20 year oil industry and biofuels exec.

Mel Angelvedt

- President, Bozco Enterprises
- 30 yrs experience in process and service in the oil and gas sector



Near Term Catalysts

- Completion of commissioning Phase 1 of Aldersyde Refinery in 2019
 - Technology has been further validated with wood waste being converted into renewable fuels
- Continuous Engineering and Design Improvements
- New improvements to the front-end of the process being installed, allowing for higher volumes of waste
 - Full-scale continuous operations projected with-in months
- Sale of current products eminently – Fuels that contain sulphur
- Sale of high grade renewable diesel (removal of sulphur) anticipated around April 2019
- Potential Future MOU's for other cities

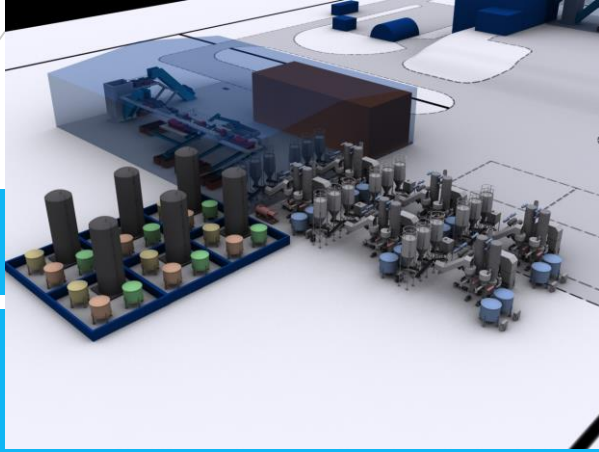




Completed R&D Phase

- Over 200 upgrading technologies were reviewed
- A detailed evaluation on 22 technologies was performed
- Selected technology that converts multiple feedstocks - sawdust, plastics, tires, construction debris and municipal organic and solid waste - into renewable diesel
- R&D began in November 2004 with millions spent to date, before and after Cielo's acquisition of the technology





Our Process

- Proprietary Catalytic Thermal Depolymerization technology
- Simply put we use catalyst and heat to convert fibrous waste into renewable fuels
- Highlights of our process
 - Patent pending on our process in USA and Canada
 - Catalyst is in-house “intellectual property” and will never be patented
 - Atmospheric pressure and low heat
 - Much quicker process times than traditional Biodiesel
 - Modular in design for growth via scaling



Operational Highlights

Completed

- Secured feedstock supply for entire production volume from Aldersyde Refinery
- Signed off-take agreement to sell all production
- \$.13/liter Alberta Bio-Producers Grant

Phase I Upgraded

- Modifications to design resulted in increase to projected capacity
- Output capacity now projected to be ~500 - 1,000 l/h once continuous-flow is achieved
- Design changes during commissioning resulted in Phase I temporarily becoming a two step process while additional capital is accessed
- Temporary two step process in Phase I
 - Step 1. – Production of raw Distillate – Achieved
 - Step 2. – Refine Raw Distillate into Naphtha, Kerosene and High Grade Renewable Diesel – Achieved
 - Remove Sulphur – Desulphurization Process has been selected
 - Continuous flow of selling renewable fuels – Approx. April 2019



Next Phases

- Phase 2
 - Continued upgrades of automation
 - the addition of Material Recovery Equipment for multiple feedstocks
 - Increase productive capacity at Aldersyde to 2,000 l/h of renewable fuels
- Phase 3
 - Initiation of Joint Venture Refineries



Demand for Biodiesel in Canada

Locations	Blend %	Diesel Consumed 2015	Biofuels Required
BC	4.0%	1,852	74
AB	2.0%	4,019	80
SK	2.0%	1,315	26
MB	2.0%	794	16
ON	2.0%	5,427	109
QC	0.0%	3,177	0
Maritimes	0.0%	1,140	0
Territories	0.0%	178	0
Canada	2.0%	17,412	348
Total/Average	3.8%	17.4 Billion L/Y	653 Million L/Y

Source: Estimates by Cielo Waste Solutions



Better Economics than “Biodiesel”

	Traditional Biodiesel	Cielo's Renewable Diesel
Production Cost/L	\$0.36 - \$0.50 (Avg \$0.43)	\$0.26 - \$0.49
Feedstock Cost/L	\$0.80 - \$1.14 (Avg \$0.97)	\$0.01 - \$0.03
Total Cost	\$1.16 - \$1.64 (Avg \$1.40)	\$0.27 - \$0.52
Price in Edmonton	\$1.25/litre	\$1.55 - \$1.80/litre*

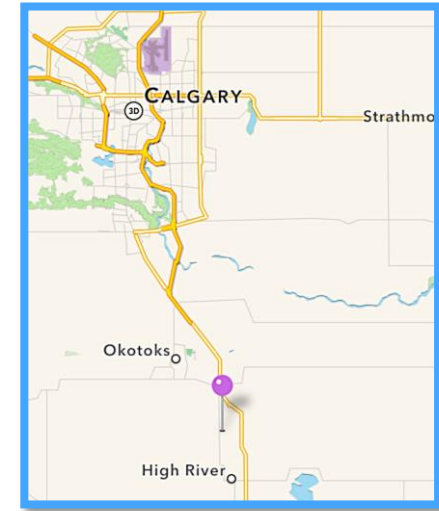
Source: Estimates by Cielo Waste Solutions.

- Production Costs estimates are for 500 lph to 2,000 lph production
- Cielo's Catalytic Thermal Depolymerization technology allows feedstock to be converted into High Grade Renewable Diesel in less time than other methods.
- Cielo can use a wide range of waste feedstocks for which many companies must pay a disposal fee
- * The wholesale price for Renewable Diesel is higher than this, however Cielo is being conservative



Benefits of First Plant in Aldersyde

- Secured plant & land
- Commissioning of the first continuous flow refinery have begun. See photos on next slide.
- Improved modifications have resulted in a larger refinery than originally planned
- 2.45 acre site fully serviced with land use zoning in place
- Only 25 km south of Calgary
- Close to multiple feedstock suppliers and contractors



Aldersyde Plant



<https://www.youtube.com/watch?v=m44VPAjkwCA>

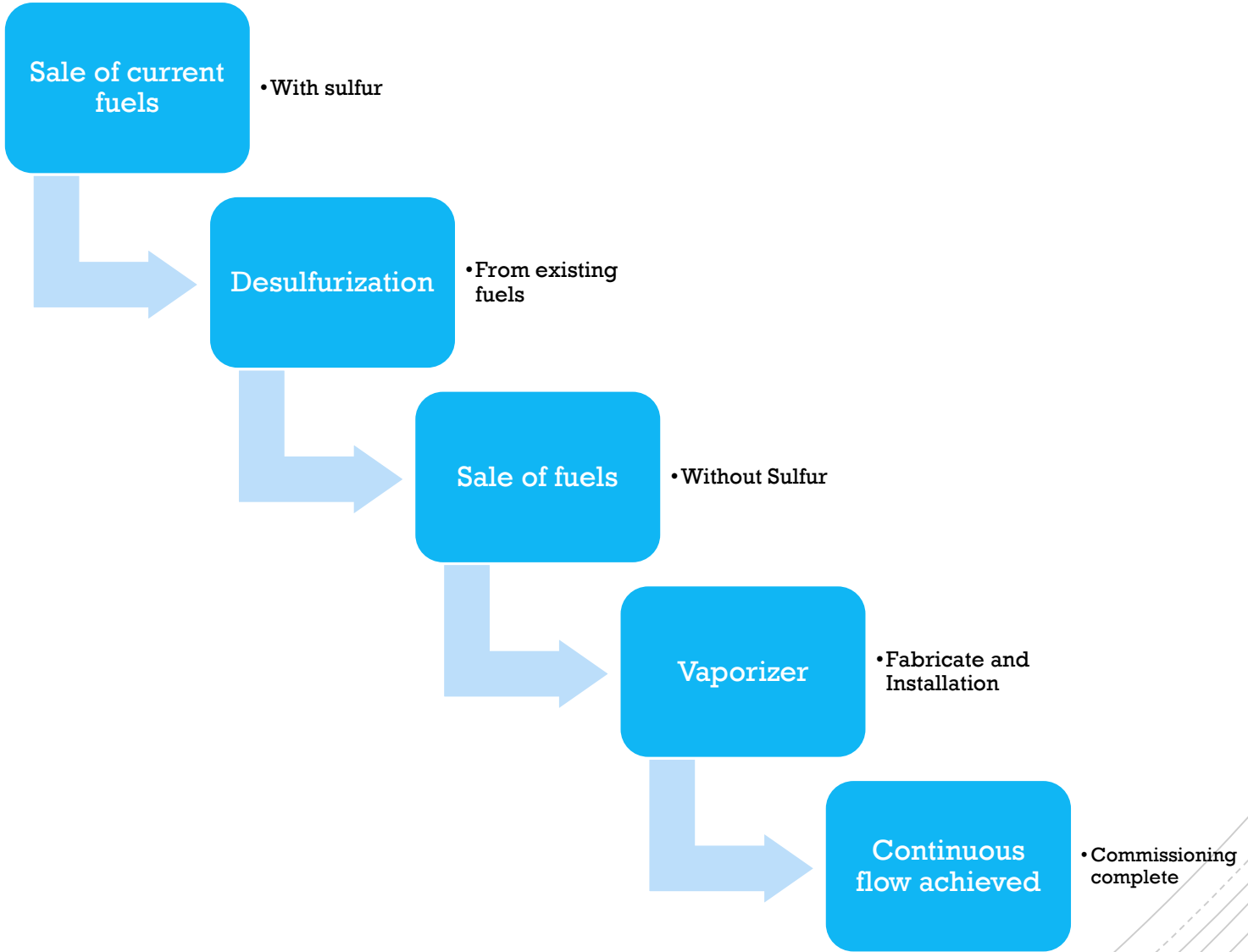


Recent Engineering Design Improvements

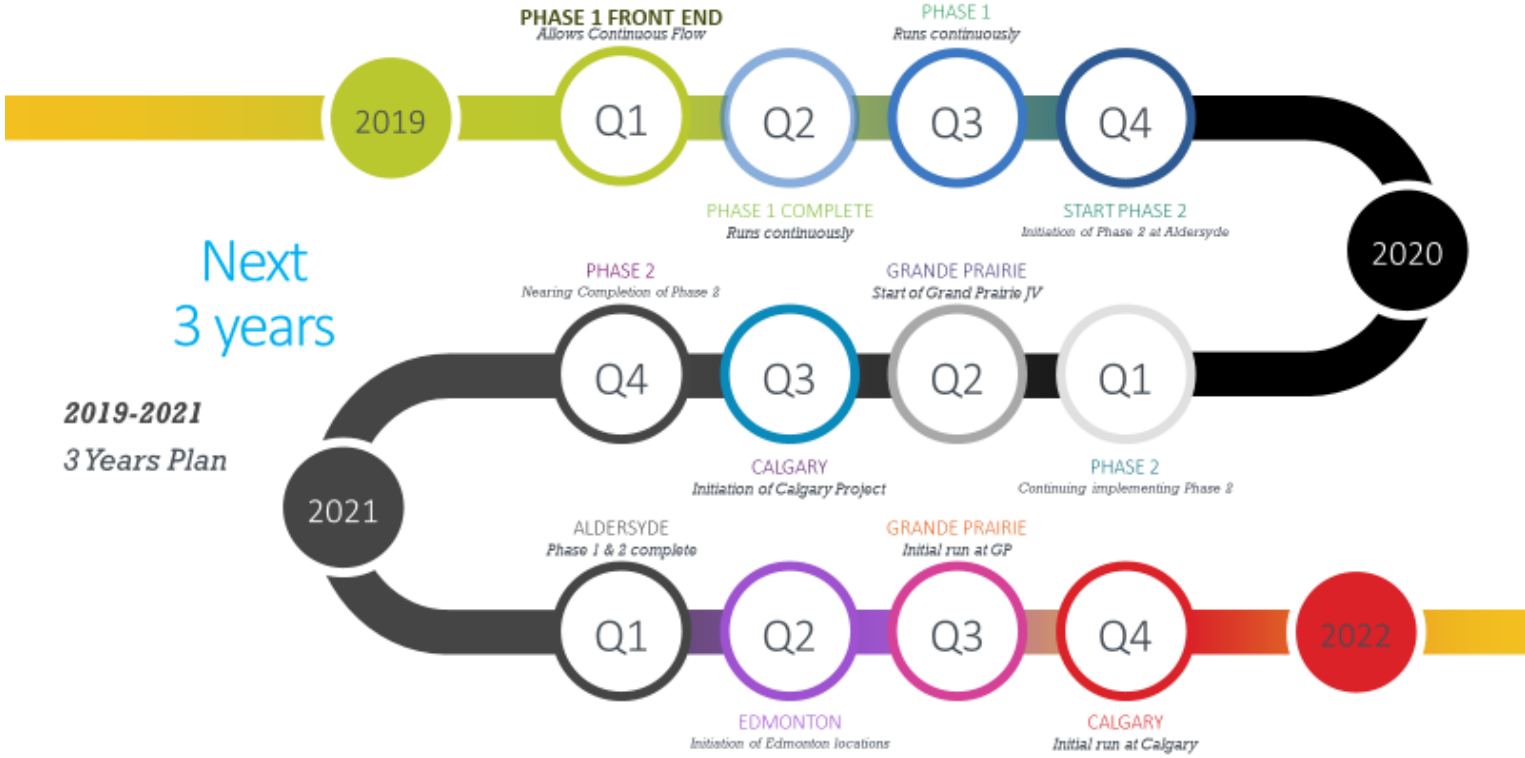
- We have begun making improvements to the front-end of the process to allow for much higher waste volumes to be used in the feedstock.
- Pyrolysis process is being added to the front-end, will vaporize the waste stream allowing for cleaner and higher carbon and hydrogen content in the feedstock, as well as higher production and EBITDA numbers.
- Cielo's lab and bench tests continue to look for improvements for the process. The results have been very encouraging.
- We ordered the long lead items in December for the improvements to the front-end of the process and expect construction and installation to be completed around the end of the first quarter 2019.



Next Milestones



3 Year Road Map



Recent MOUs

- Cielo Recently Signed MOUs for a Potential Joint Ventures in Grande Prairie and Calgary
- Highlights of potential terms of the joint venture agreements include:
 - Joint Venture (JV) partners are responsible for 100% of the financing of the Project which including land (including railway access and servicing, buildings, equipment, permitting, constructing and commissioning of the Refineries
 - CIELO will execute the planning, construction, commissioning and operation of the Refineries, and overall manage the joint venture
 - Until the JV Partners recovers an amount equal to 100% of the Project Costs: JV Partners will be entitled to receive 70%, of the net profits from the Refinery.
 - Upon the receipt by JV Partners of an amount equal to 100% of the Project Costs: CIELO will be entitled to receive 51%, and JV Partners will be entitled to receive 49%, of the profits from the Refineries.



Investment Highlights

- **Proven Technology** – Millions of dollars and years spent on R&D (through various related companies), validation from multiple 3rd parties
- **Currently in the commissioning phase of the first commercial refinery at Aldersyde**
- **Exclusive License** - Cielo holds an exclusive global license from a related party with ability to purchase license by Cielo
- **Patent** – Process Patent has been filed in the USA and Canada
- **Ability To Use Waste Feedstocks** – Unlimited availability at a very low cost
- **Low Carbon End Product** - ~60% reduction in GHG emissions
- **Targeted to be Canada's first Renewable Diesel producer, which is fully compatible with fossil diesel**
- **Regulated Demand** - Canadian Regulators have mandated minimum blend of renewable diesel into all transportation diesel



Investment Highlights

- **Little Canadian Competition**– No major renewable diesel producers in Canada that can sell to this market
- **Marketing Agreement** – Completed with established Canadian marketer
- **Permits** – Municipal and Provincial Permits approved
- **Tremendous Growth Potential** – Rapidly growing global demand, fastest growing industry in the world
- **Subsidies** – Cielo does not require any subsidies to be profitable, but continuous to file for all programs.
- **\$0.13/liter Alberta Bio-Producers Grant** awarded
- **First Cash Flow** – Projected to begin imminently
- **CIELO IS POISED FOR SIGNIFICANT NEAR TERM GROWTH**
- **CIELO HAS A GAME CHANGING SOLUTION TO THE WORLD'S GARBAGE PROBLEM – FASTEST GROWING INDUSTRY IN THE WORLD**



Contact Info

Operational Headquarters
Cielo Waste Solutions Corp.
Bridgeview Place II
Suite 115, 5114-58 Street
Red Deer, Alberta, T4N 2L8

Tel: (403) 348-2972
www.cielows.com



<https://www.8020connect.com/groups/cielo-waste-solutions-corp>

Donald Allan,
President & CEO
donallan@cielows.com

Michael Yeung, CFA
VP Bus. Dev. & Capital Markets
michaelyeung@cielows.com



Cielo

*Turning Waste Into High
Grade Renewable Fuels*

CMC: CSE

