



REBALANCING THE FUTURE OF PLASTICS



Corporate Presentation
CSE: PLAS | FSE: XV2
Q3 2024

Disclaimer

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Management Team

Troy Lupul **President & CEO**

Troy Lupul, with over 30 years in process and produced water management in the oil and gas sector, has been pivotal in advancing treatment technologies for companies like Suncor and Syncrude, with a broad impact across North America. He's an established entrepreneur, having founded Filterboxx Inc. and ClearBakk Energy Services Ltd., both of which were sold to international investors after achieving robust annual revenues. His strategic role in revitalizing AWC's wastewater project in New Jersey underscores his financial and operational acumen. Lupul's technical expertise extends internationally, with experience in deploying process equipment for the Canadian Defence Department in Afghanistan, and projects in the USA, Libya, and Norway. He's a NAIT-educated professional with a provincial level 4 water and wastewater operator certification, illustrating his deep knowledge and competence in the industry.

Wayne Monnery **CTO – Ph.D. Eng.**

Dr. Wayne Monnery, a PhD in Chemical Engineering from the University of Calgary, possesses over 30 years of experience that aligns closely with PlasCred's pyrolysis initiatives. His comprehensive background in gas processing, pipeline hydraulics, separation, and sulfur recovery lends itself to the complex chemical transformations involved in pyrolysis. His specialization in crude oil systems, particularly dehydration and stabilization, parallels the dehydration and conditioning requirements of pyrolytic processes. An active contributor to industry literature, Dr. Monnery has bridged theoretical concepts with practical applications, particularly in thermodynamics and the physical properties of fluids, knowledge that is crucial in optimizing pyrolysis operations. His innovative work in converting waste materials into energy and valuable products through pyrolysis directly supports PlasCred's objective of transforming plastic waste into a resource, underscoring his role in sustainable technology development.

Brian Hearst **CFO - CPA, CA**

Brian Hearst, a Chartered Public Accountant, has over 30 years of experience in the oil and gas sector, demonstrating a remarkable track record of success. His extensive background includes 20 years as a CFO for small public energy companies and 12 years working with a leading energy corporation. Throughout his career, Brian has played an instrumental role in numerous equity and debt financing deals, skillfully collaborating with key stakeholders such as regulators, investment bankers, lawyers, auditors, commercial bankers, reservoir engineers, and company professionals. Brian's exceptional expertise in company management has also led him to serve as an independent director for two junior mining enterprises, where he provides valuable guidance and strategic oversight. His comprehensive understanding of the energy and mining industries, combined with his strong financial acumen, make Brian an invaluable asset.



Board of Directors

James Cairns

James Cairns is currently an independent consultant. Previously, he held the position of Senior Vice-President, Rail Centric Supply Chain at CN Rail. In this role, he was responsible for executing and expanding CN's bulk and merchandise carload businesses, managing the commercial teams and non-rail operations in his supply chains, and customizing all last-mile services for customer needs. Mr. Cairns oversaw CN's grain, fertilizers, sulphur, coal, petroleum and chemicals, forest products, and metals and minerals businesses. Prior to his role at CN Rail, he served as Vice-President, Petroleum and Chemicals from March 2010 and Assistant Vice-President of CN's domestic intermodal since 2006. Mr. Cairns earned a Bachelor's degree in Business Administration from the University of Winnipeg and an MBA from Queen's University in Kingston, Ontario.

Troy Lupul

Troy Lupul, with over 30 years in process and produced water management in the oil and gas sector, has been pivotal in advancing treatment technologies for companies like Suncor and Syncrude, with a broad impact across North America. He's an established entrepreneur, having founded Filterboxx Inc. and ClearBakk Energy Services Ltd., both of which were sold to international investors after achieving robust annual revenues. His strategic role in revitalizing AWC's wastewater project in New Jersey underscores his financial and operational acumen. Lupul's technical expertise extends internationally, with experience in deploying process equipment for the Canadian Defence Department in Afghanistan, and projects in the USA, Libya, and Norway. He's a NAIT-educated professional with a provincial level 4 water and wastewater operator certification, illustrating his deep knowledge and competence in the industry.

Gerald N. Gilewicz

Mr. Gilewicz serves as the Chief Financial Officer of Journey Energy Inc.. Previously, Mr. Gilewicz served as Chief Financial Officer and Vice President of Finance at Vero Energy Inc. from November 2005 to August 2012. Formerly, Mr. Gilewicz served as Vice President of Finance and Chief Financial Officer of Devlan Exploration Inc. and Dual Exploration Inc. from September 1999 to November 2005. Prior to this Mr. Gilewicz served as a Senior Manager at Deloitte & Touche LLP. Mr. Gilewicz has served as a Director and Chair of the Finance Committee of the Small Explorers and Producers Association of Canada. Mr. Gilewicz is a Certified Professional Accountant and received a Bachelor of Commerce in Accounting from the University of Saskatchewan.

Capital Structure

Basic Shares Outstanding	63.1 million
Debt	\$0.6 million
Warrants* @ \$0.25	11.6 million
Warrants** @ \$0.07	4.1 million
Performance Warrants*** @ \$0.25	5.0 million
Fully Diluted Shares Outstanding	83.8 million
Management & Board Ownership on a FD Basis	42%



*12-month warrants expiry of November 2024

**Growth Equity Agreement

*** 1/3 at +\$15 Million Equity Raise

1/3 at Maximus Commissioning

1/3 at First Production



The Plastic Diversion Myth



Global Plastic Waste Trade

Developed nations are major exporters of plastic waste to economically disadvantaged nations, triggered by **China's pivotal 2017** policy shift which banned plastic waste imports and set off a **global chain reaction**.

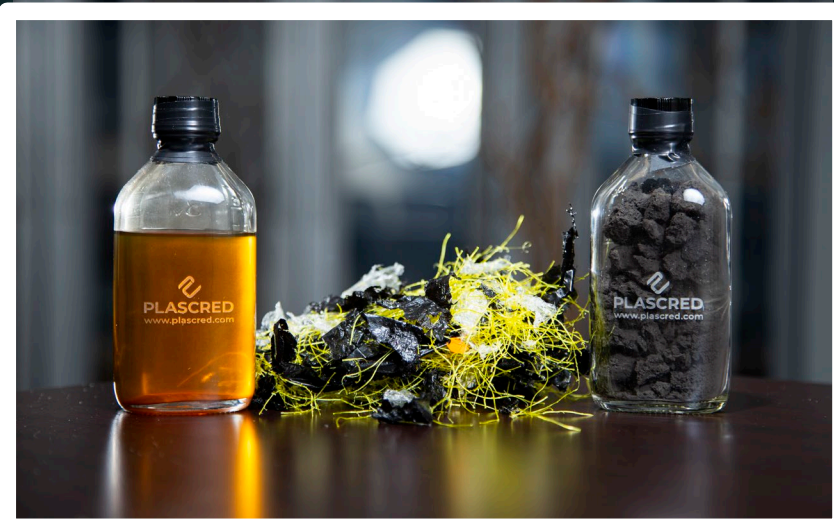
460 Million Tonnes of Plastic Produced

Globally, with 353 million tonnes of plastic waste in 2020, over 2X from 2000, driven by increased buying power of rising global populations, low levels of recycling, and poor waste management.

Only 9% of Plastic Waste Recycled

In the United States, according to the OECD. **The majority of plastic waste goes to landfills or is still shipped overseas.**

PlasCred Highlights



Advanced Plastic Upcycling Process

Patent-pending low-cost advanced upcycling process to transform up to 80% of unsorted, unwashed waste plastic into

RENEWABLE GREEN CONDENSATE™

Scalable output from Primus, Neos, Maximus. Neos capacity of **300 bpd** and upcycles **60 tonnes*/d** of plastic waste.

Maximus has initial output capacity of **2,000 bpd** and upcycles **400 tonnes/d** of plastic waste, scalable to **10,000 bpd** and **2,000 tonnes/d** of plastic waste

*Assumes 60% Recovery



Robust Strategy for Commercialization

Neos & Maximus to be strategically located in **Edmonton, Alberta** the heart of **Canada's largest refinery zone**, a ready market for **PlasCred's products**, strengthening economics and value.

Multiple revenue channels including Renewable Green Condensate, Plastic and Carbon Credits, and Commercial End Products.



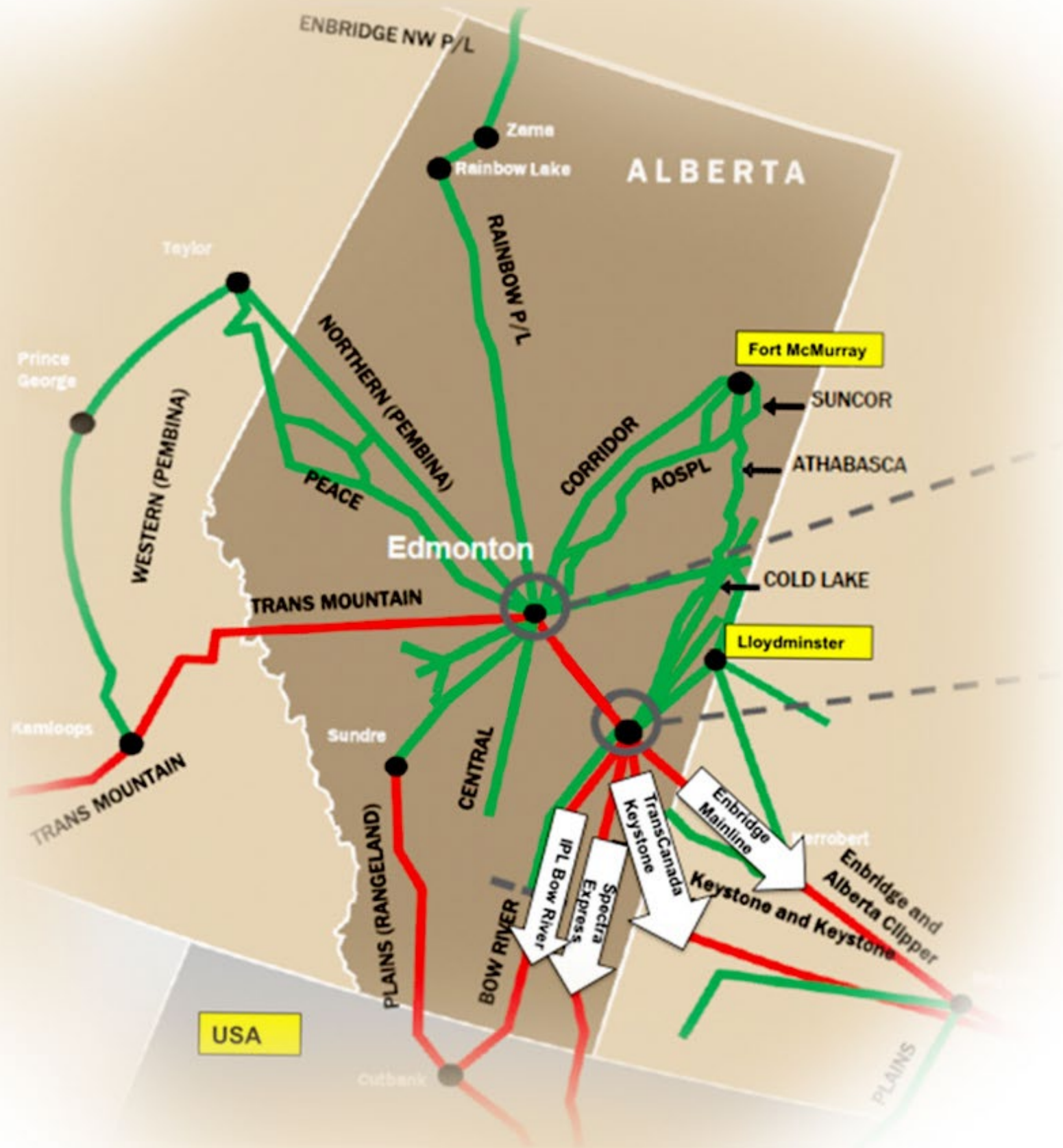
Industry-Leading Partners and Expertise

Partnerships with **CN Rail, Palantir and Fibreco** provide unparalleled **transportation and logistics for collecting plastic feedstock time- and cost-efficiently** across North America and internationally, solving a critical problem of upcycling companies.

Veteran team in engineering R&D, business development, **plastic & carbon credit development.**



Condensate Market



Alberta's Condensate Landscape

Significant role in energy sector.
PlasCred aligns with market demands.

Condensate Market Strengths

Predictable pricing.
Versatility in blending and refining.

Value of Condensate

Trades at or above Canadian Light Sweet Crude.

Market Demand

Current demand: ~1,000,000 barrels/day.
Imports from U.S.: ~200,000 barrels/day.

Opportunity for PlasCred

Alberta blenders/shippers seek local high-quality condensate to reduce import dependency.
PlasCred's production capabilities position it as an emerging player in the Alberta condensate market.

PlasCred Process Overview

PlasCred's patent-pending and proprietary process enables true plastic waste removal in a scalable, systematic and profitable way.

RENEWABLE  GREEN CONDENSATE™

Transforms up to 80% of unsorted, unwashed waste plastic into ultra-clean renewable green condensate, in a commercially viable process providing immediate economic benefit for industry, communities and government organizations for handling waste plastic.

Engineered Scalability for Robust and Profitable Operations

- **Primus: 2 bpd** condensate, upcycling **400 kilograms/d*** of plastic waste
- **Neos: 300 bpd** condensate, upcycling **60 tonnes/d** of plastic waste
- **Maximus:**
 - Phase 1: **2,000 bpd** condensate, upcycling **400 tonnes/d** of plastic waste
 - Phase 2: **4,500 bpd** condensate, upcycling **900 tonnes/d** plastic waste
 - Phase 3: **10,000 bpd** condensate, upcycling **2,000 tonnes/d** of plastic waste

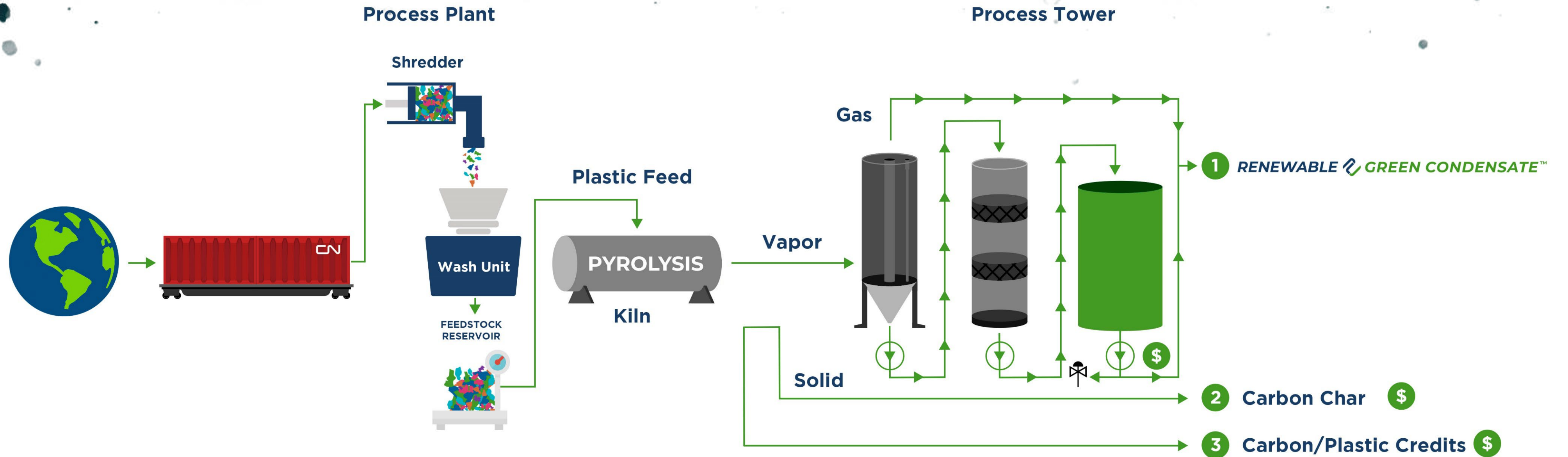


Transforming Plastic Waste back to its Original Mother Earth Molecule

* Assumes 60% Recovery



PlasCred Process Diagram



Inputs: Plastic Feedstock can be all kinds of mixed unwashed and unsorted plastics types 1 to 7 optimally polyethylene and polypropylene.

Outputs: Commercial end products with potential customers, including Renewable Green Condensate, Carbon Char, and Aromatics.





Plastic Feedstock



PlasCred's Innovative Solution vs. Mechanical Recycling Challenges

Contamination and Complexity

Mechanical Recycling: Mixed plastics and contaminants complicate sorting.

PlasCred: Pyrolysis process effectively handles various plastic types and contamination.

Compatibility Limitations

Mechanical Recycling: Incompatible melting points hinder plastic mixing.

PlasCred: Pyrolysis process can handle a large volume of diverse plastics.

Degradation and Quality Concerns

Mechanical Recycling: Exposure and repeated processing degrade plastic quality.

PlasCred: Pyrolysis minimizes degradation, producing valuable condensate.

Market Demand Constraints

Mechanical Recycling: Rejection due to unmet quality standards.

PlasCred: Produces valuable green condensate, aligning with market demand.



PlasCred Primus

A pioneering facility engineered to conduct beta testing of PlasCred's unique upcycling process

Successfully brought online and commissioned in **May 2023.**

Initial test results show a **high quality renewable green condensate** meeting industry specs with capacity of **2 bpd** and **liquid recoveries up to 80%**

Intensive **rigorous testing** program underway and learnings applied to **Neos design** ensuring **scalable growth.**

This innovative, **patent-pending** technology underscores our commitment to the **circular economy.**





PlasCred Primus

A pioneering facility engineered to conduct beta testing of PlasCred's unique upcycling process

At PlasCred, we're revolutionizing plastic upcycling with our patent-pending, three-step pyrolysis process.

Heating plastic waste, transforming it into a liquid state. This is the first step in our journey towards a **sustainable future**.

Liquid then undergoes **thermal degradation**, producing a vapor. This crucial second phase prepares the materials for their **final transformation**.

Vapor interacts with a specially selected catalyst, turning plastic waste into

RENEWABLE  **GREEN CONDENSATE™**





PlasCred Neos

The Evolution of Primus Commercial Scaling

Front End Engineering Design Study

Neos FEED Study underway with Grey Owl Engineering Ltd. Anticipated completion early Q4 2024. **Capacity** of approximately **300 bpd** and designed to be **modular**.

Neos Design

Neos engineered to have equivalent **residence time or space velocity** as **Primus**. **Neos** engineered to have **equivalent relative dimensions**, such as Height/Diameter ratio as **Primus**. **Neos is engineered** to ensure the heat transfer **surfaces are equivalent**.

Neos Highlights

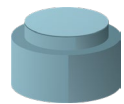
Neos designed to be **modular**. On completion of the **FEED** study, **PlasCred** will release a full breakdown of the **project metrics** including update on negotiations for a **long-term offtake** agreement and **secured plastic feedstock** supply.

PlasCred Engineered Scalability

PlasCred's Technology Develops through Multiple Phases, each Offering Greater Capacity and Output

Our Engineered Scalable Solutions are Designed to Meet the Rising Needs of Plastic Waste Reduction

PRIMUS



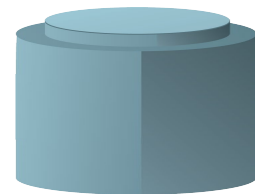
Primus

400 kg/d*

~2 bpd

Onstream May 2023

NEOS



Neos

60 tonnes/d

~300 bpd

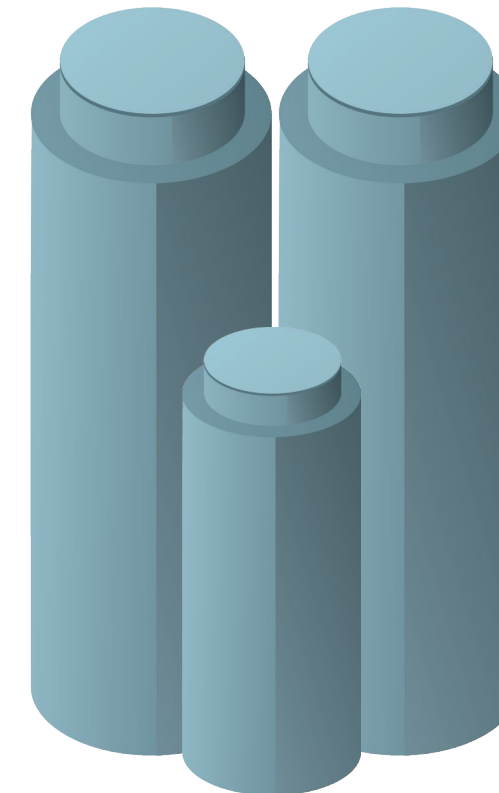


**Maximus
Phase One**

400 tonnes/d

~2,000 bpd

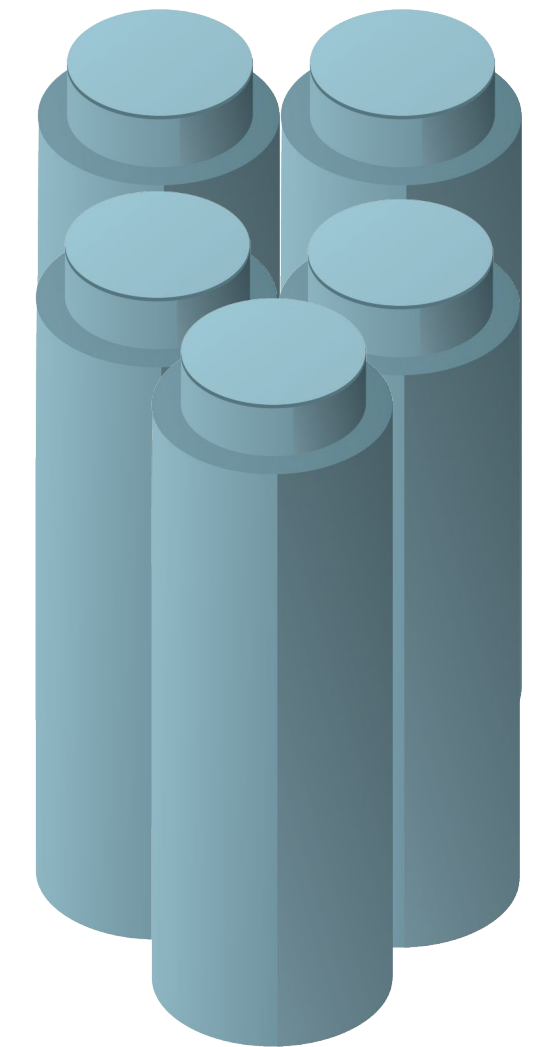
MAXIMUS



**Maximus
Phase Two****

900 tonnes/d

~4,500 bpd



**Maximus
Phase Three**

2,000 tonnes/d

~10,000 bpd

*Assumes 60% Recovery

** Phase One is start-up and Phase 2 is full production run times, Phase 3 additional capex for reactors will be added. Material handling capex deployed with Phase One.



Commercial End Products

PLASTIC REMOVAL REVENUE



PlasCred Processing



Carbon Char

10%

Inert carbon and carbonaceous solid produced



RENEWABLE GREEN CONDENSATE™

80%

Proprietary ultra-clean renewable condensate product with various commercial applications



Gas

10%

Hydrogen, propane and butane, used for the PlasCred process
Quality of the emissions improve with increased feed rates

TYPES OF END PRODUCT >>

PERCENTAGE >>

END PRODUCT DESCRIPTION >>



August 2022 & December 2023

Signed MOU with CN Rail TSX: CNR



PlasCred Logistics Advantage

The Canadian National Railway Company (NYSE:CNI, TSX:CNR) is a Canadian Class I freight railway and Canada's largest railway.

PlasCred has entered an **MOU with CN Rail**, establishing a **strategic alliance for logistics** and transportation of plastic waste to **PlasCred upcycling plant locations**.

Creation of a comprehensive **North American plastic waste logistics network**.

Securing a steady stream of **essential plastic waste feedstock**.

Potential Gulf Coast Plant sites and access for **enhanced global connectivity**.

Feb 2023

Signed MOU with Fibreco



PlasCred Logistics Advantage

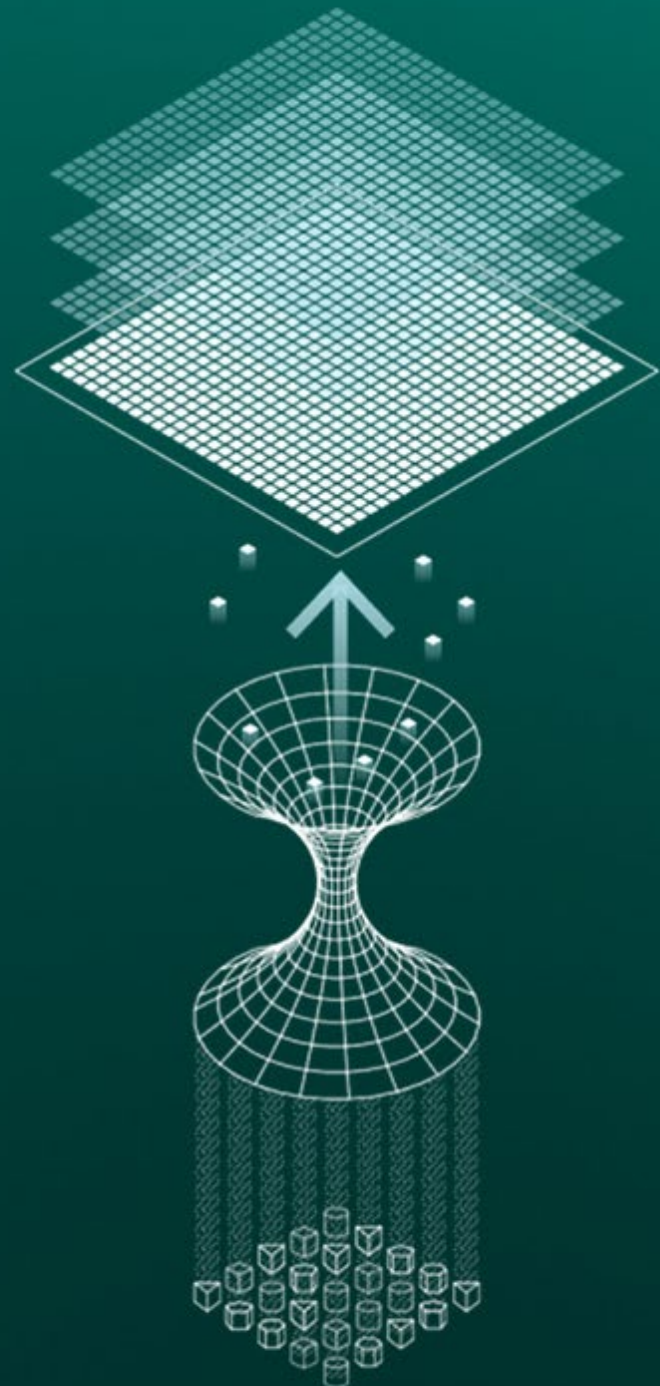
Fibreco Export Inc. is one of the world's largest wood biomass handling terminals, with enhanced terminals to accommodate export of agricultural products to Europe and Asia.

Fibreco's **efficient rail delivery coordination with CN**, dry bulk storage, and loading processes expand **PlasCred's feedstock supply chain internationally.**

Signed MOU with the objective of investigating the feasibility of **utilizing existing port location for importing plastic waste feedstock.**

December 2023

Palantir Technologies Inc. NYSE: PLTR



PlasCred Logistics Advantage

Palantir Technologies Inc. (NYSE: PLTR) is a leading provider of AI systems globally and in Canada

PlasCred entered a strategic collaboration with **Palantir Technologies Inc.** to integrate **AI technology** into its supply chain **logistics** and **operational optimization**.

The partnership involves the implementation of **Palantir's Foundry and AI Platforms** at **PlasCred's Primus** plant and developing **supply chains** as a beta test.

Insights from **Primus** will inform the logistics and operation of the upcoming **Maximus** facility.

What is a Plastic Credit?



Verra is a Leader in the Plastic Credit Market

Verra's Plastic Waste Reduction Program drives investment to plastic waste management projects worldwide that are third-party audited and **verifiably reduce plastic waste in the environment.**

Projects certified with **Verra's Plastic Program** can generate **Plastic Credits.**

There are two types of Plastic Credits that indicate the infrastructure investment made:

- **Waste Collection Credit (WCC)**
- **Waste Recycling Credit (WRC)**

PlasCred can become the **Gold Standard** of Plastic Credits



PlasCred's approach has the potential to set a completely new benchmark for plastic credits.

PlasCred **Maximus Phase One** is forecasted to remove up to 400 metric tonnes of plastic per day with potential value of **\$20,000 to \$320,000 per day** in Phase One.

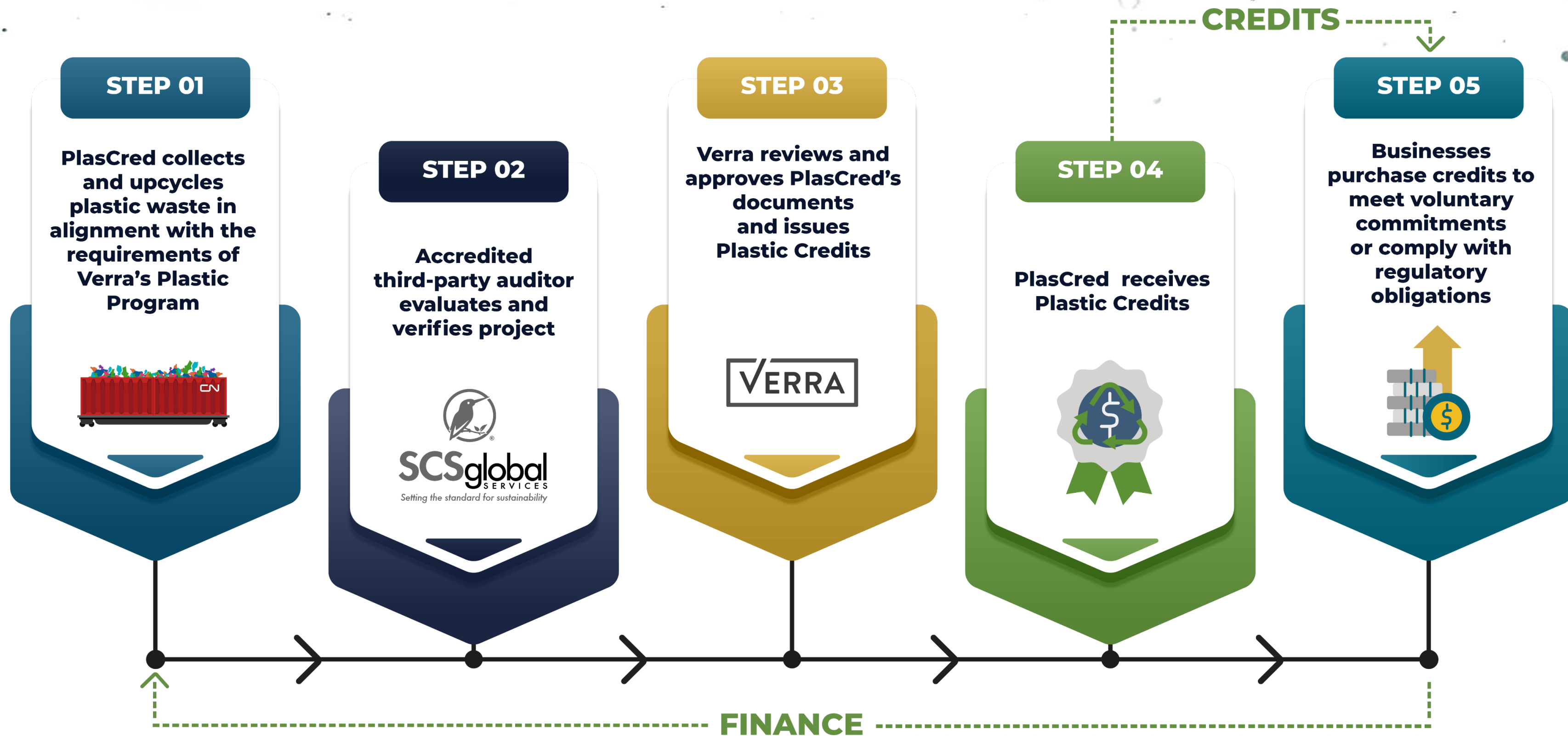
- Verra's current market value of plastic credits are **\$50 to \$800 per tonne** of plastic removed.

Urgent market demand for PlasCred's plastic credit solutions is evident.

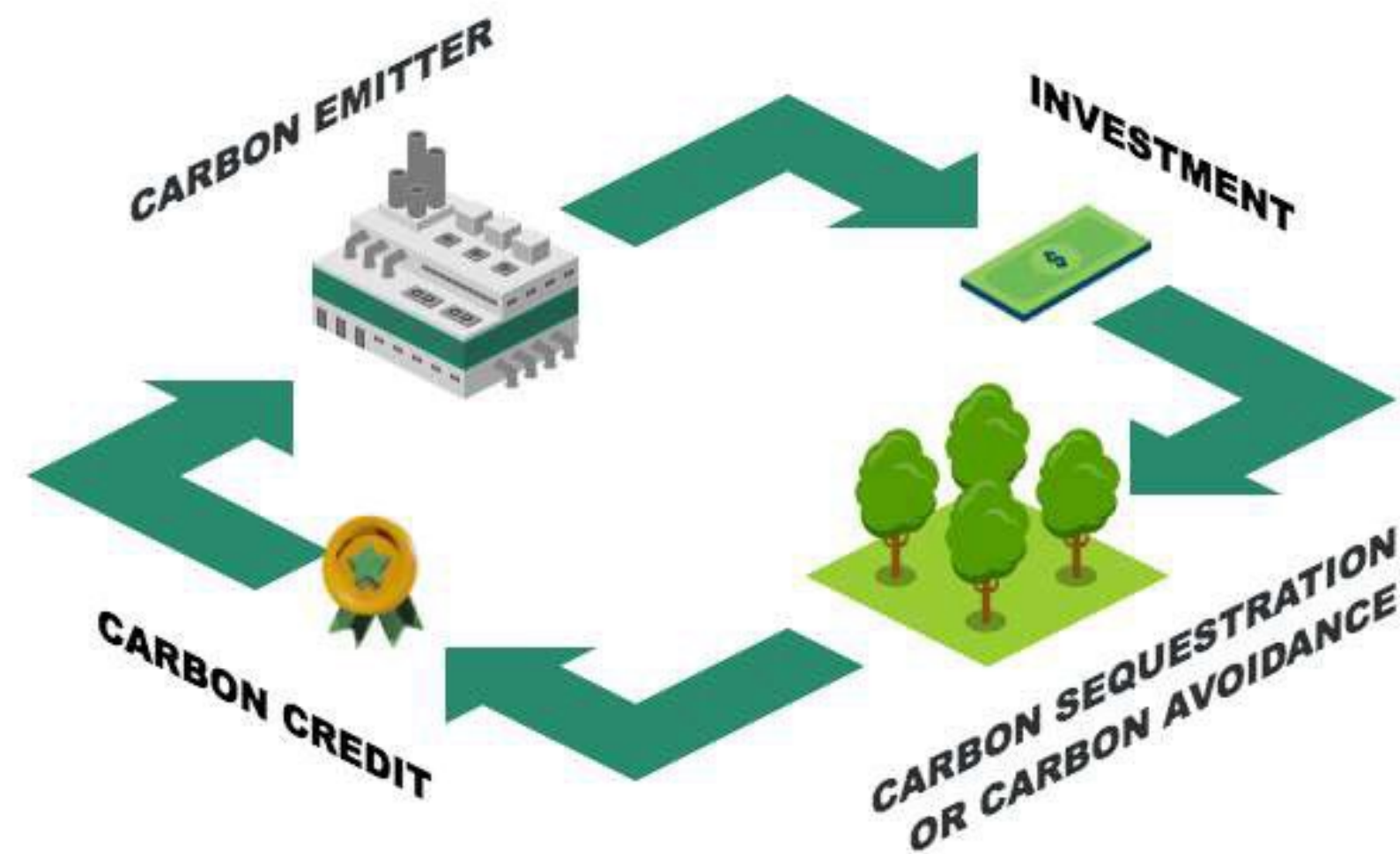
- Pepsi, Coke, Nestle, and P&G are all presently engaged in a class action lawsuit over plastic pollution.
- Verification of PlasCred's process has begun with Verra and SCS Global including **ISCC+ verification**



Verra Plastic Credit Process



Carbon Credits



PlasCred has formed a **Credit Development Team** partnered with **industry leading organizations**.

Countries internationally are more committed than ever to reducing Greenhouse Gases.

Carbon/Plastic markets are evolving quickly.

Voluntary Carbon Units

Voluntary Carbon Markets are on pace to be valued between \$5B - \$100B market by 2030.

Current market value of carbon credits are ~\$8-22 per tonne of carbon removed.

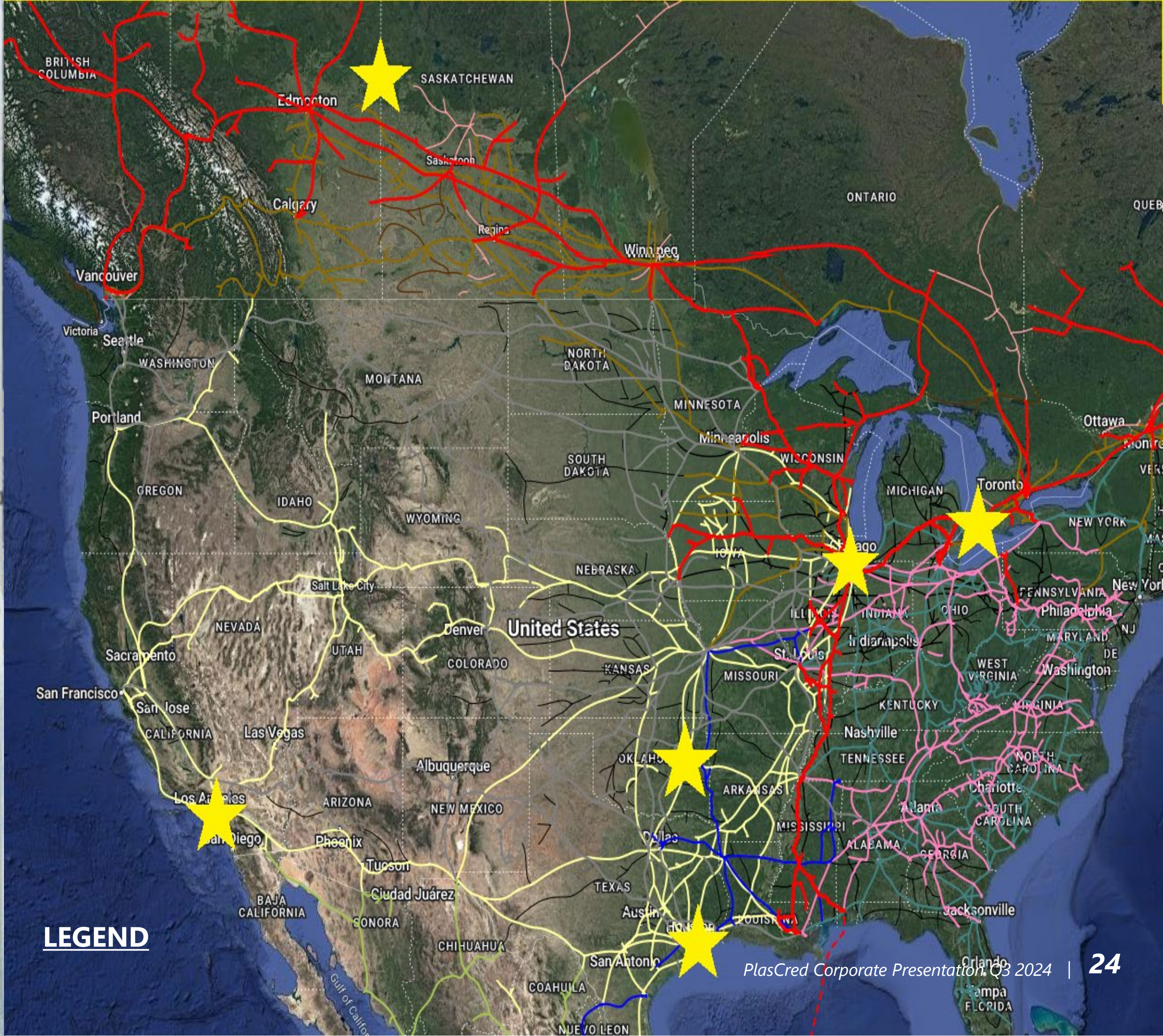
Expansion Across North America

Scalable & Repeatable

Expansion Targets Across North America

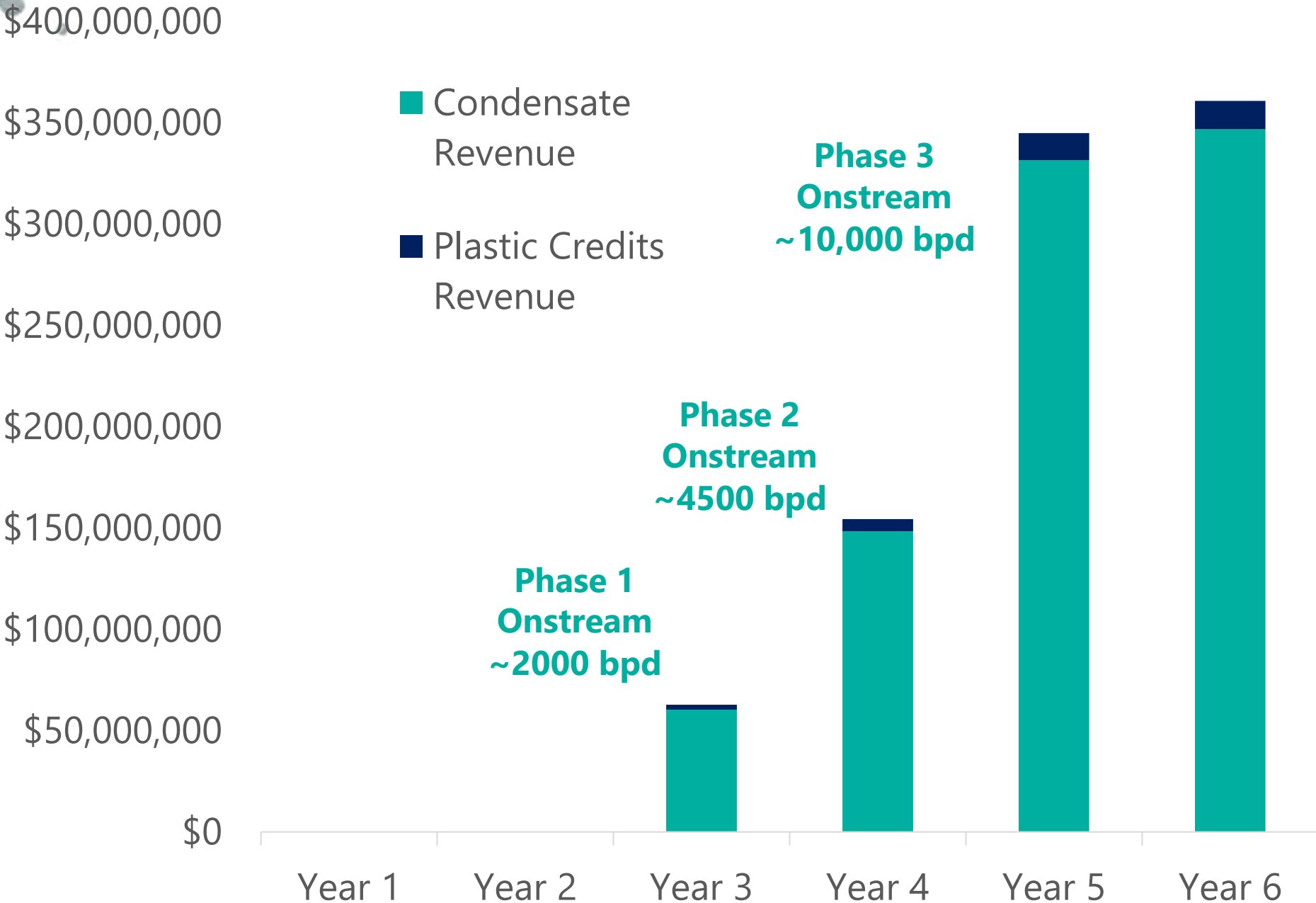
Utilizing CN Rail and Logistics Network

- Helena, MS
- Mobile, AL
- Chicago, IL
- Los Angeles, CA
- Cushing, OK

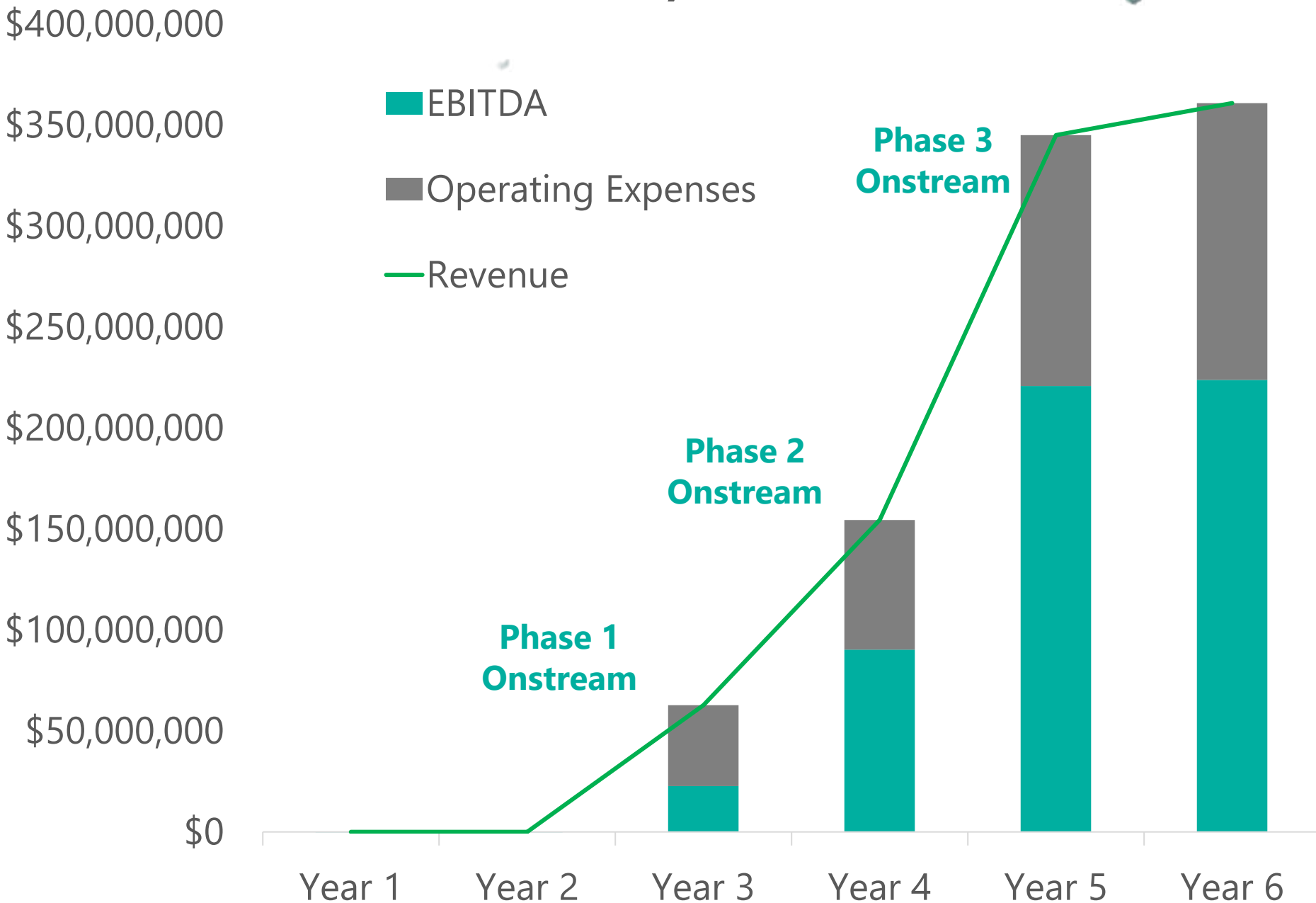


Maximus Financial Estimates

Maximus Revenue Estimates*



Maximus Revenue / EBITDA Estimates**



* Assumptions: Pricing for Condensate is based on Edmonton Condensate at \$95 barrel CAD, and Plastic Credits at \$50/tonne.

**Figures are subject to change, until the FEED study is completed. Pre-FEED Level 3 complete.

Our Vision

Rebalancing the future of plastics.

PlasCred is transforming plastic waste by granting plastic a valuable second life.

PlasCred is advancing towards a **climate-positive future**, aspiring to be among the **largest advanced plastic waste upcycler's** in North America and worldwide.

Employing **groundbreaking patent pending technology**, PlasCred will revolutionize the approach to plastic waste management and upcycling.

Well-defined roadmap guides PlasCred's future, emphasizing **positive environmental outcomes** and establishing PlasCred as the benchmark for environmental credits, encompassing both plastic and carbon credits.





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PLASCREED
— TRUE REMOVAL OF PLASTIC —



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Transfer Agent:
Endeavor Trust

