



January 2024

# Corporate Presentation

# Forward Looking Statements

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We develop chemical technology platforms that transform low-value materials into higher-value resources with the aim of unlocking significant environmental and economic benefit



# A Next-Generation Technology Platform

Turning low-value hydrocarbons into higher-value products

## Hydrochemolytic™ Technology Platform

- Ten years of research and development
- One technology platform, multiple applications
- Transforms difficult, low-value materials into valuable resources
- Crucial role in advancing the circular economy
- Operates at lower temperatures
- Higher conversion yields

## Strong Patent Strategy

- Strong patent strategy
- 7 patents issued
- 1 patent pending
- More in development



# Multiple Market Applications

| STAGE  | APPLICATION  | TOTAL ADDRESSABLE MARKETS         |
|--|--|-----------------------------------|
| PILOT STAGE<br>           |  <p><b>Advanced chemical recycling of plastic waste</b></p> <p>Converting plastic waste streams into valuable resources including chemical pre-cursor &amp; fuels</p>   | <p><b>\$ 120B</b><br/>BY 2030</p> |
| ADVANCED RESEARCH<br>    |  <p><b>Partial upgrading of heavy crude oils</b></p> <p>Partial upgrading of heavy crude &amp; asphaltene to lighter crude products</p>   | <p><b>\$ 50B</b></p>              |
| FUTURE APPLICATIONS<br> |  <p><b>Research and development</b></p> <p>A flexible technology platform that has applications in additional market segments like rubber tires, by tuning the chemistry and controlling the interplay of processing parameters</p> | <p><b>\$ 121B</b></p>             |

<https://www.iea.org/reports/oil-market-report-february-2022>

<https://www.globenewswire.com/news-release/2022/01/19/2369236/0/en/Biofuels-Market-Size-to-Surpass-US-201-21-Billion-by-2030>

<https://www.marketsandmarkets.com/Market-Reports/recycled-plastic-market-115486722.html>

# Hydrochemolytic™ Technology (HCT)

Next-generation chemical recycling technology to convert diverse feedstocks

## THERMOLYSIS / PYROLYSIS

Licella™ BRIGHTMARK fuenix Let no plastic go to waste GREENMANTRA TECHNOLOGIES

MURA TECHNOLOGY PLASTIC ENERGY Honeywell UOP nexus CIRCULAR

REGENYX agilyx Pryme BLUEALP Accelerating Plastic Recycling

Alterra Enerkem enval ITERO

Rensci Resynergi NEW HOPE RECYCLING QUANTAFUEL

## CHEMOLYSIS

ADURO  
CLEAN TECHNOLOGIES

At least 70 other companies and university-affiliated institutes globally are investigating the space, see Closed Loop Partners and Nova Institute for more information. [https://www.closedlooppartners.com/wp-content/uploads/2021/11/CLP\\_Molecular-Recycling-Directory-2021.pdf](https://www.closedlooppartners.com/wp-content/uploads/2021/11/CLP_Molecular-Recycling-Directory-2021.pdf)

Excluded above are destructive decomposition/combustion or non-chemical processes such as physical presorting.

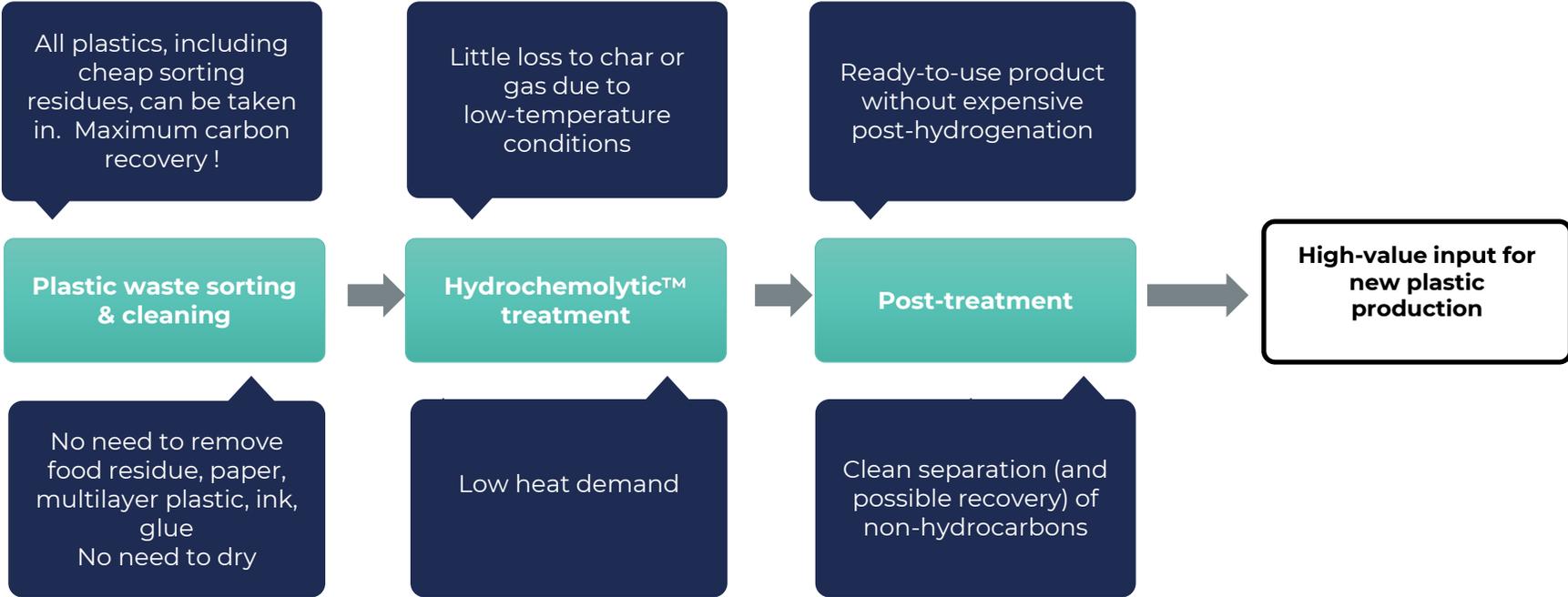
# Hydrochemolytic™ Technology (HCT)

Advanced chemical recycling of plastic waste

## Setting a Benchmark vs Thermolysis / Pyrolysis

Benefits of the Aduro Hydrochemolytic™ Technology

Maximum Carbon Recovery at Lower Costs



# 2023 Achievements

## Corporate Development

### Finance & Capital

Closed Oversubscribed Placement of \$3.9M in April 2023



### Geographic Expansion

Established subsidiary in the Netherlands



### Conferences

Conference Speaking Events, Investor Roadshows



### Media Outreach

Engage media, brand influencers, video, earned media, print articles.



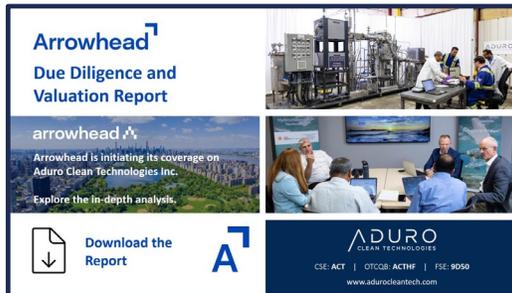
### Upgraded to OTCQX

to increase exposure to US investment community



### Investor Relations

Increased investor communication efforts & first Analyst Report, ongoing investor roadshows



### Branding & Website

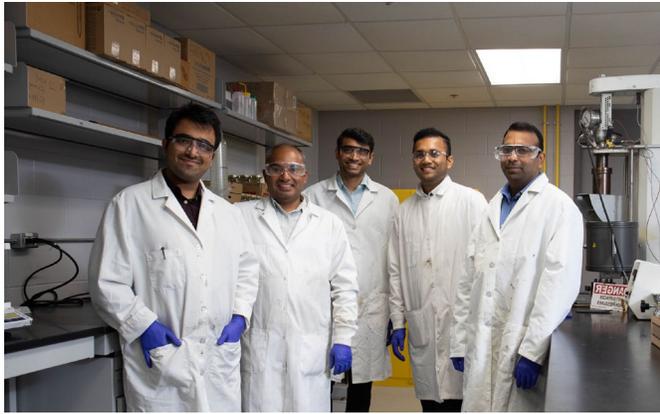
Update brand visuals & website



# 2023 Achievements

## Technology & Operations

**Western Sarnia Lambton Research Park | Toolrite**  
Ongoing Testing of Bench & R2 Reactors – Laboratory Analysis



## New office & laboratory

**London | Ontario**

# 2023 Achievements

## Customer Engagement Program (CEP)

Launched CEP to facilitate early-stage engagement with customers. It starts with Technology Evaluation.

### Plastic Upcycling

November 1, 2022



October 11, 2023



November 30, 2023



### Paying Customers

Paid engagements for technology evaluation. Stage-gated approach to advance collaboration.

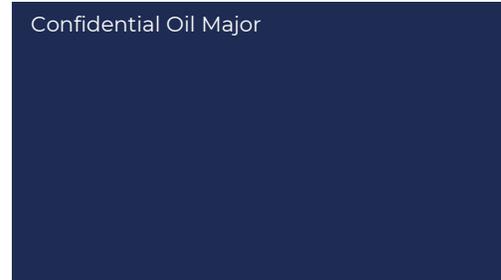
5

### Bitumen Partial Upgrading

August 8, 2023



March 20, 2020



# 2023 Achievements

## Corporate Development

Multi-national team located in Canada, USA, Europe and Mexico.

### Research

Currently 5 researchers and recruiting to expand in London



### Operations

Recruited and Trained 6 Operators to facilitate running experimental test runs on R2 Reactors



### Management

Chief Revenue Officer to build out the Customer Engagement



**Eric Appelman**  
Chief Revenue Officer



**Stefanie Steenhuis**  
Head of Brand & Marketing

### Board

Recruited strong Board Member with broad chemistry experience.



**Marie Grönberg**  
Independent Board Member

# Path to Commercialization

## Customer Engagement Program (CEP)

Complexity of waste streams



### Single, pure polyolefin streams

Conversion of single, pure polyolefin streams that are hard to recycle mechanically for non-chemical reasons like logistics or safety. HCT will be straightforward and predictable.



### Multi-layered, clean streams

#### Predictable multi-component waste streams

Conversion of well-defined and predictable multi-component waste streams with separation challenges, like multi-layer films.



### Complex, dirty waste streams

#### Large complex and dirty waste streams

Conversion of large complex and dirty waste streams, like domestic sorting residue, mixed packaging films, and paper recycling rejects.

2023

2024

2025

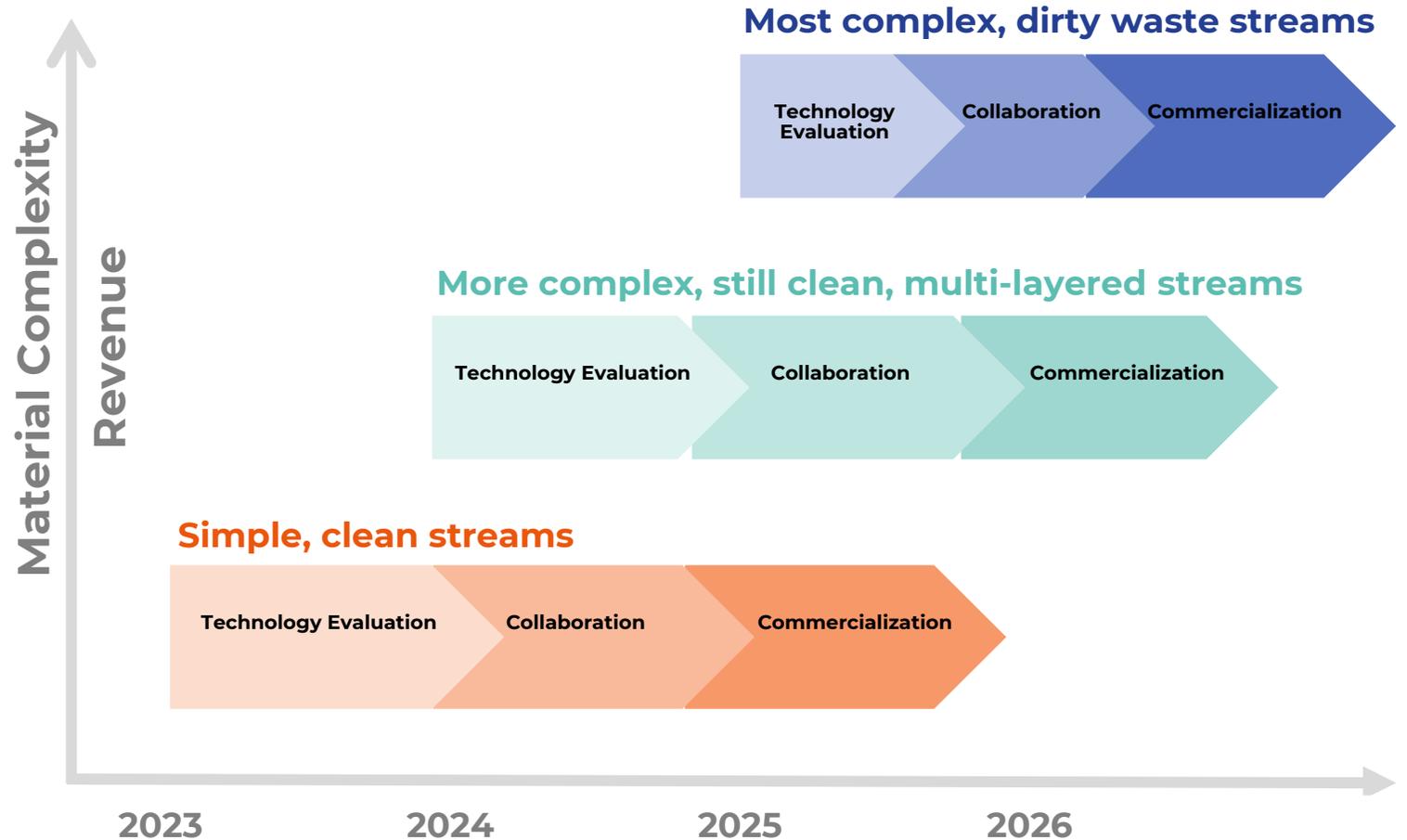
2026

2027

# Path to Commercialization

## Customer Engagement Program (CEP)

Value-adding, de-risking and revenue-generating process to commercialization



# Customer Engagement Program

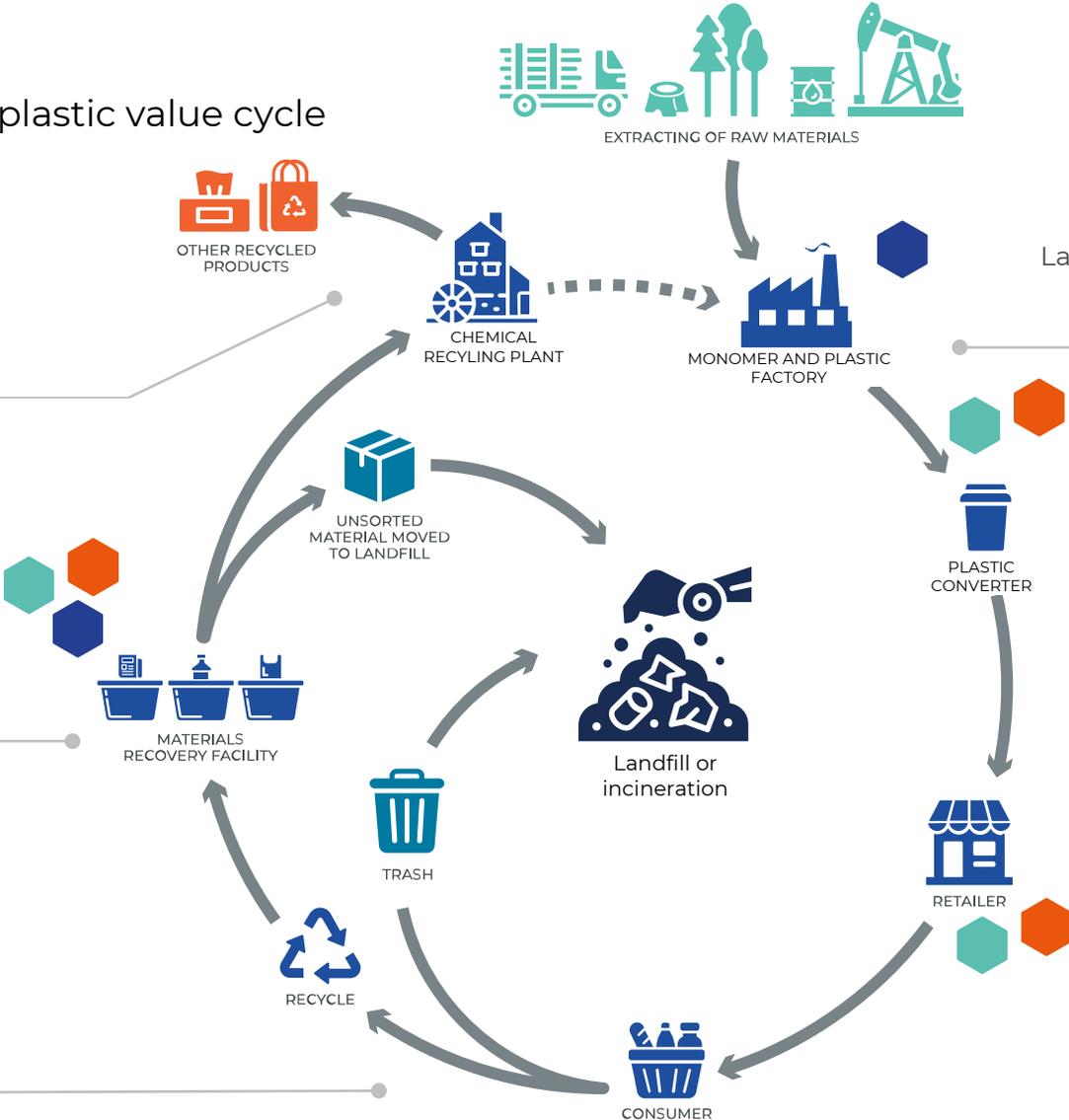
## Our Revenue

Working with partners in the plastic value cycle

Companies that build, own and operate chemical recycling factories.

Waste management companies, with rapidly evolving sorting technology to maximize the value extracted from what they collect

Consumers through their governments, NGO's, and consumer organizations.



Adapt color to feedstock:  
Simple to complex

Large oil companies and petrochemical producers. Examples, Shell, LyondellBasell

Companies that design and produce packaging materials like films, containers, pouches and bottles.

Leading FMCG companies, durable goods manufacturers, automobile producers and retailers. They drive the value cycle, and they are increasingly held responsible for its sustainability

# 2024 Strategic Outlook

## Three Major Pillars

1. Convert existing Customer Engagement participants from Technology Evaluation to Technology Collaborations
2. Continue work to design and build the tons per day scale - R3 Plastics
3. Expand on the company's IP position, add 2-4 more patents during 2024.

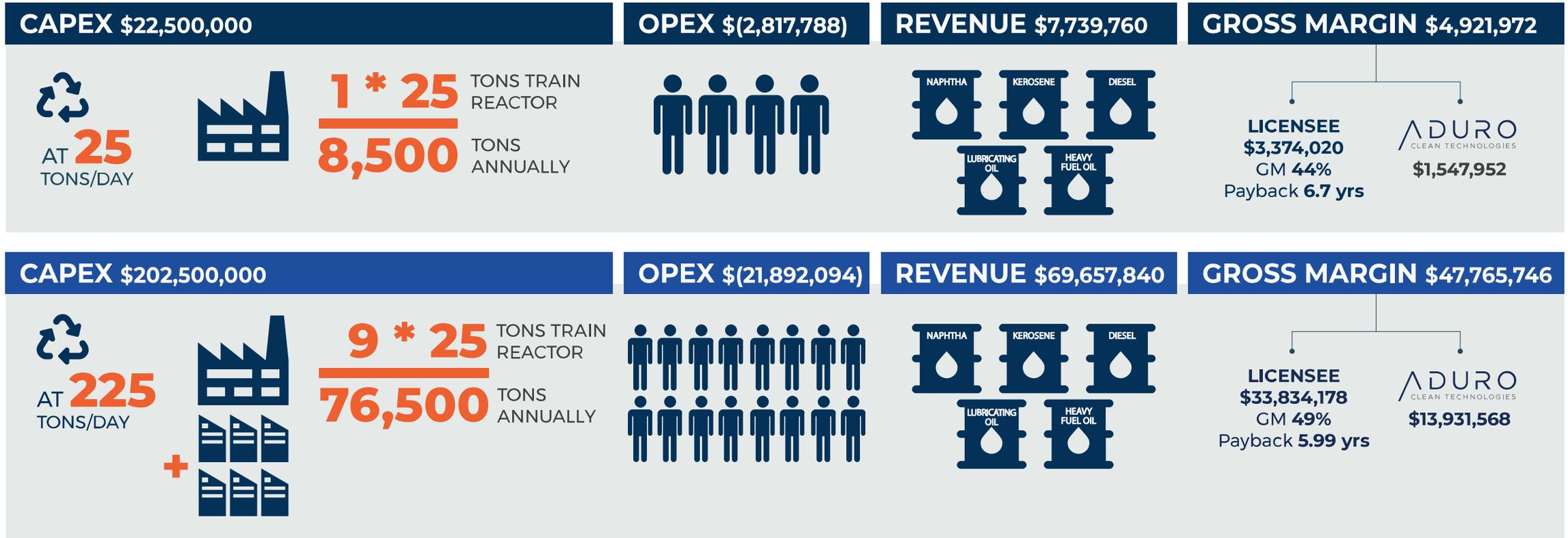
## Continue to add value to our shareholders

## Reducing risk

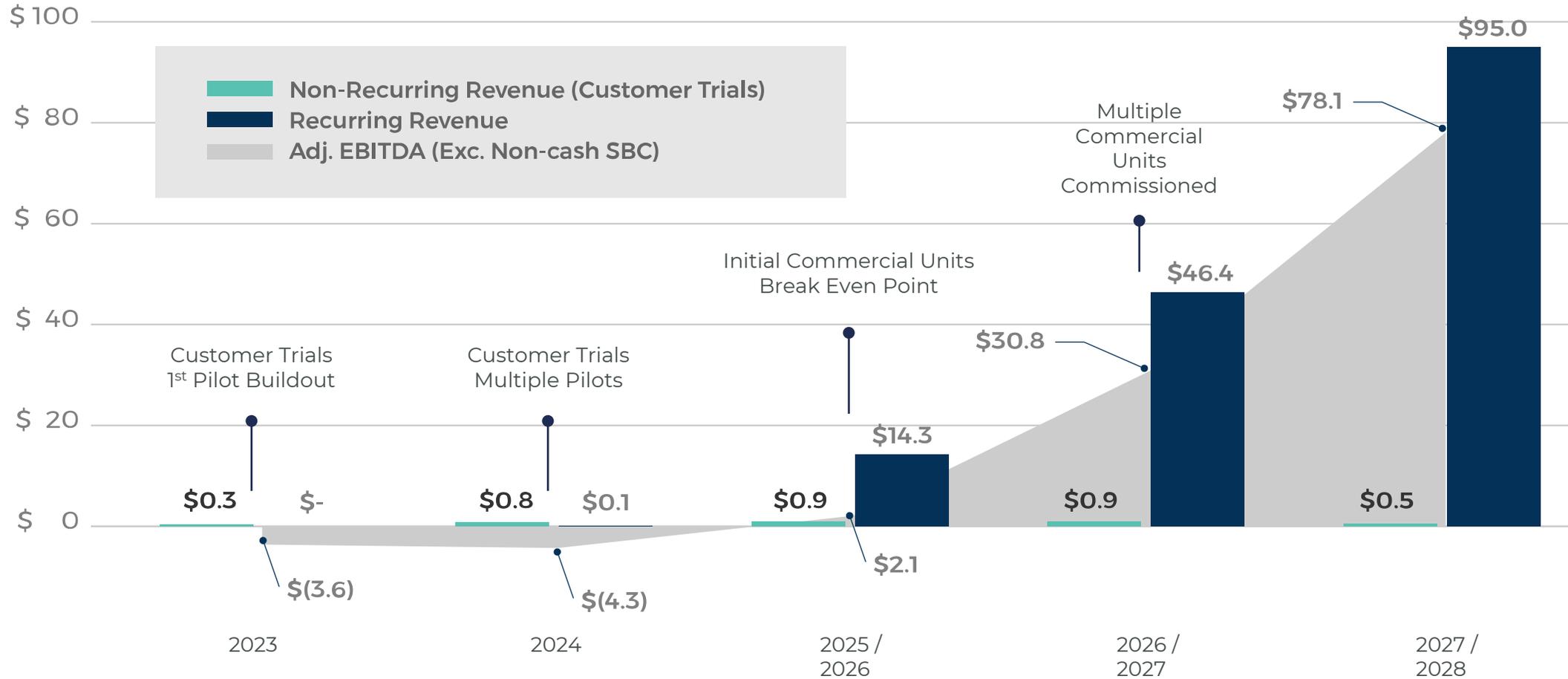
## Making progress

# HPU: Hydrochemolytic Plastics Upcycling

## Use Case Illustration of Licensing Model Economics – Polyethylene



# Proforma Financial Forecast



# Capital Structure

|   |  |
|---|--|
| <b>STOCK LISTING</b>                                  | CSE: <b>ACT</b>   OCTQX: <b>ACTHF</b>   FSE: <b>9D50</b> |
| <b>SHARES OUTSTANDING</b> (B/FD)* (Jan 31, 2024)      | 67,590,869 / 97,373,094                                  |
| <b>INSIDER OWNERSHIP</b>                              | 42 %   |
| <b>WARRANTS / OPTIONS OUTSTANDING:</b>                | 8,119,898 / 8,328,999 *                                  |
| <b>SPECIAL WARRANTS</b> (FD when released from trust) | 13,333,328 **  |
| <b>MARKET CAPITALIZATION</b> (Jan 31, 2024)           | <b>\$89.9 M CAD (\$66.6 M USD)</b>                       |

\* Warrants are exercisable at an average price of **\$0.94** (range \$0.50-\$1.30), with 17% held by Insiders and Options are exercisable at an average price of **\$0.83** (range \$0.65-\$1.28), with 62% held by Insiders & senior management.

\*\* Class B Special Warrants were distributed in accordance with the terms of the securities exchange agreement and will only be converted to common shares when the second milestone is achieved. 86% of the Special warrants are issued to Insiders.

# Management Team



**Ofer Vicus**

Co-Founder & Chief Executive Officer



**Marc Trygstad**

Co-Founder & Chief Technology Officer



**Mena Beshay**

Chief Financial Officer



**Gene Cammack**

Chief Operating Officer



**Eric Appelman**

Chief Revenue Officer



**Anil Jhawar**

Chief Scientist



**Abe Dyck**

Head of Corporate Development



**Stefanie Steenhuis**

Head of Brand and Marketing



**Birendra Adhikari**

Head of Research & Development

# Board of Directors



**Ofer Vicus**

Co-Founder & Chief Executive Officer



**Marc Trygstad**

Co-Founder & Chief Technology Officer



**Peter Kampion**

Director



**James E. Scott**

Director



**Marie Grönborg**

Director



**THANK YOU!**

## CONTACT

**Ofer Vicus**

Chief Executive Officer

[ovicus@adurocleantech.com](mailto:ovicus@adurocleantech.com)

**Abe Dyck**

Head of Corporate Development / Investor Relations

[adyck@adurocleantech.com](mailto:adyck@adurocleantech.com)

CSE: **ACT** | OTCQX: **ACTHF** | FSE: **9D50**

[adurocleantech.com](http://adurocleantech.com)