



# Corporate Presentation **September 2024**

# 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



The *Between* Chemistry.

# Multiple market applications

STAGE	APPLICATION	TOTAL ADDRESSABLE MARKETS
<p>PILOT STAGE</p> 	 <p><b>Advanced chemical recycling of plastic waste<sup>(1)</sup></b>            Converting plastic waste streams into valuable resources including chemical precursors &amp; fuels</p>	<p>USD <b>\$ 120B</b> BY 2030</p>
	 <p><b>Partial upgrading of heavy crude oils<sup>(2)</sup></b>            Partial upgrading of heavy crude &amp; asphaltene to lighter crude products</p>	<p>USD <b>\$ 50B</b></p>
<p>ADVANCED RESEARCH</p> 	 <p><b>Converting renewable oils to sustainable fuels and chemicals<sup>(3)</sup></b>            Chemical conversion of renewable oils to renewable diesel, sustainable aviation fuel and renewable platform chemicals.</p>	<p>USD <b>\$ 121B</b></p>
<p>FUTURE APPLICATIONS</p> 	 <p><b>Research and development</b>            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>	

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

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

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

# A next-generation technology platform

Turning low-value hydrocarbons into **higher-value products**



## Hydrochemolytic™ Technology

- 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

## Benefits

- High tolerance streams
- Lower temperatures
- Higher and quality yield
- Highly saturated product
- No molecular hydrogen
- Minimum post-processing

## Strong Patent Strategy


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

# Hydrochemolytic™ Technology (HCT)

A new chemical recycling technology, a better approach to converting diverse feedstocks

## THERMOLYSIS / PYROLYSIS

## CHEMOLYSIS



ADURO

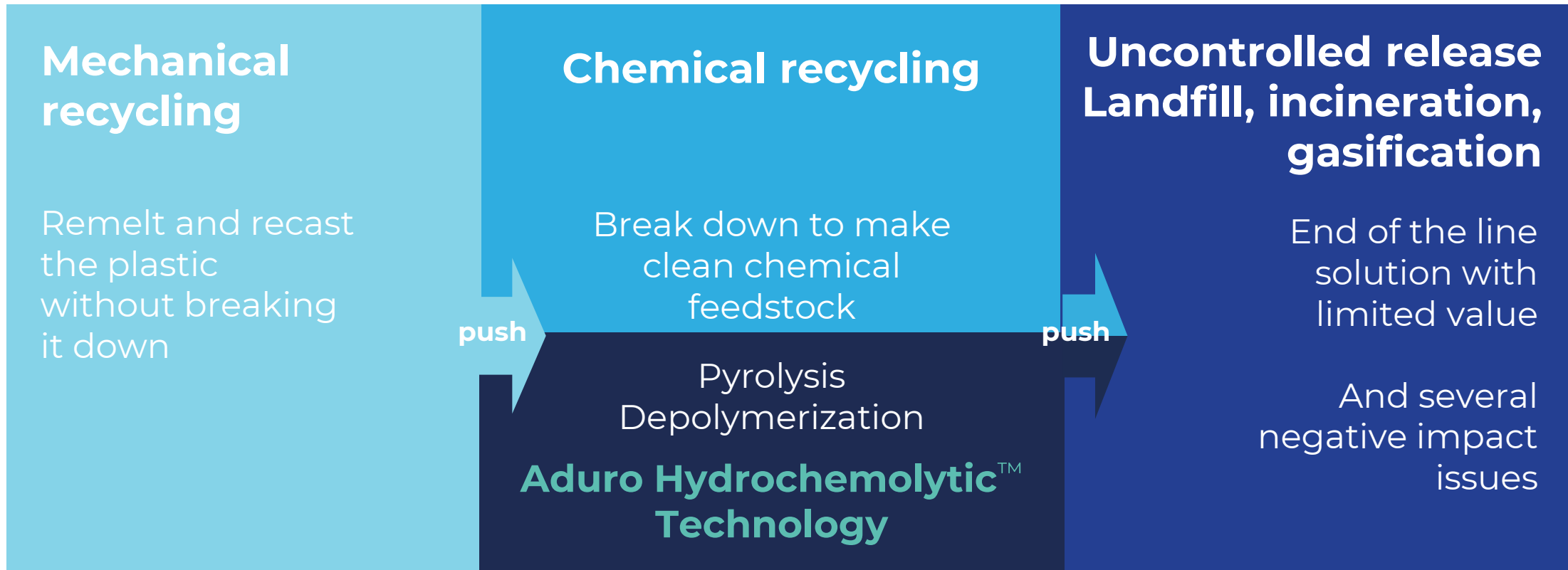
CLEAN TECHNOLOGIES

At least 70 other companies and university-affiliated institutes globally are investigating the space, see Closed Loop Partners and Nova Institute for more information.  
 (4) [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.

# Advanced Chemical Recycling

## A niche role for Hydrochemolytic™ Technology



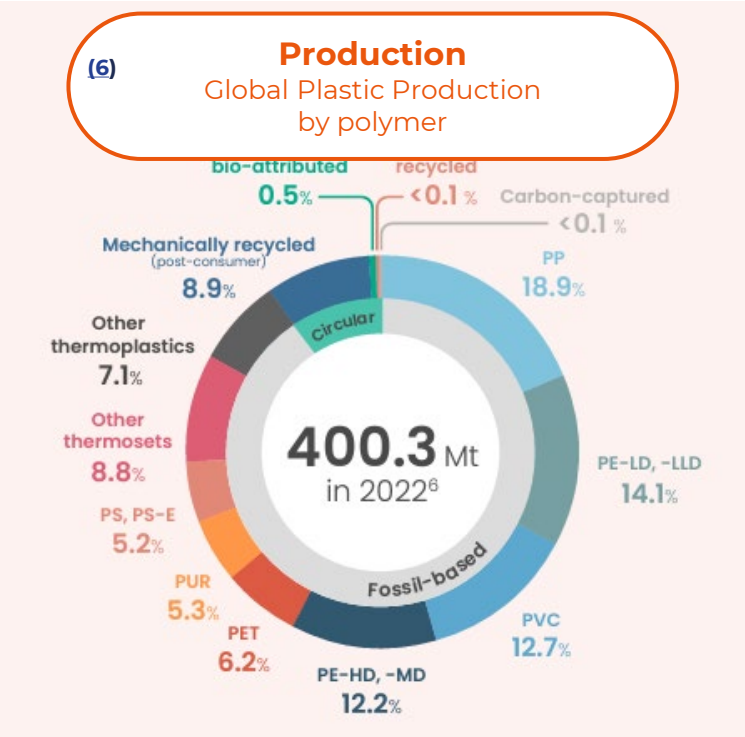
Diverse recycling methods are needed to address global plastic waste problem. The chemical recycling services market is projected to increase from USD\$ 15.7B in 2024 to USD\$ 149B by 2034. (5)

(5) <https://www.futuremarketinsights.com/reports/chemical-recycling-service-market#:~:text=The%20global%20chemical%20recycling%20service,US%24%20149.24%20billion%20by%202034.>

# Global Waste Management Overview

## Significant opportunity for chemical recycling

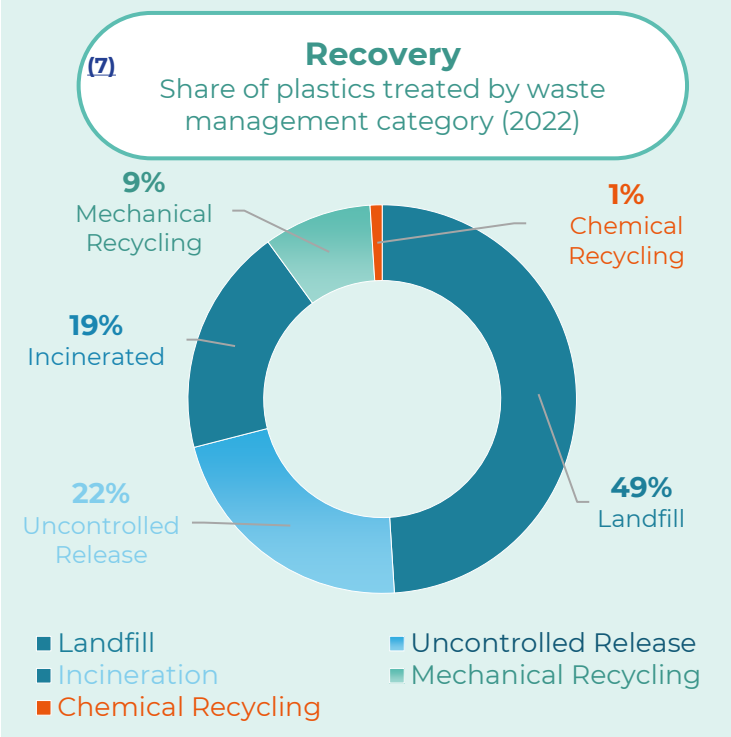
Global plastics production was **400.3 Mt** per annum in 2022. Recycling /recovery rates are only **10%**, 49% of plastics end up in landfill, a further 22% is uncontrolled released into the environment, and 19% is incinerated or gasified for energy generation.



### The Opportunity

This is valuable carbon available for the circular plastic economy.

Innovation in mechanical & chemical recycling is needed for a future state of 75% carbon recovery.



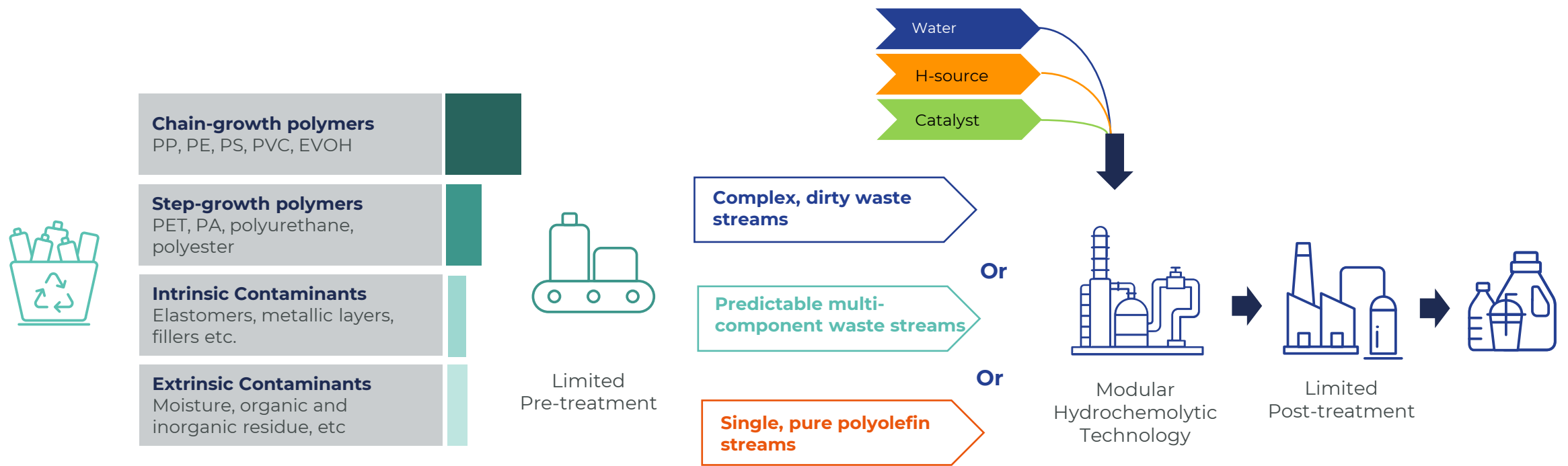
(6) <https://plasticseurope.org/wp-content/uploads/2023/10/Plasticsthefastfacts2023-1.pdf>

(7) <https://www.oecd.org/en/about/news/press-releases/2022/02/plastic-pollution-is-growing-relentlessly-as-waste-management-and-recycling-fall-short.html>



# Hydrochemolytic™ Technology (HCT) and plastic circularity

A novel, game-changing approach in chemical recycling that can be configured based on the dynamic characteristics of feedstocks with better potential to transform more plastic waste into valuable materials, more sustainably and efficiently than other approaches and technologies today.



# Hydrochemolytic™ Technology

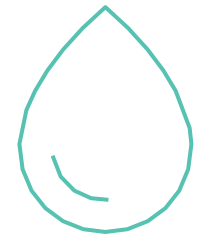
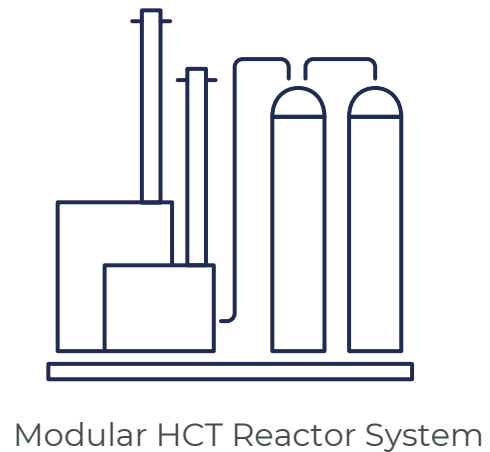
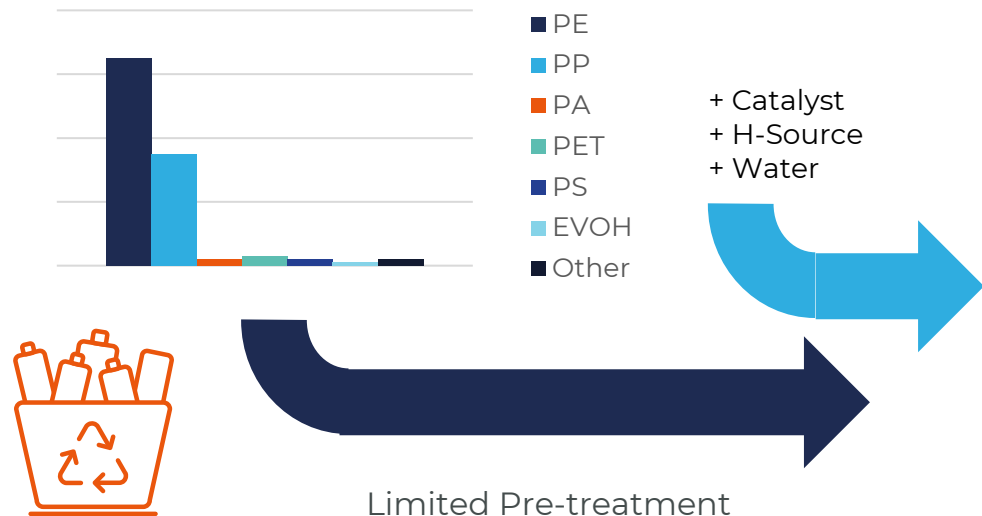
Designed for modularity allowing more business options

Hydrochemolytic™ Technology (HCT) is highly configurable to the requirements of a wide range of waste plastic feedstocks.



**Simple clean streams  
from post industrial sources**

## Waste Plastic Composition – Representative Sample



HCT Oil

Note: Waste composition is largely PE & PE with **small** amounts of intrinsic and extrinsic contaminating materials.

# Hydrochemolytic™ Technology

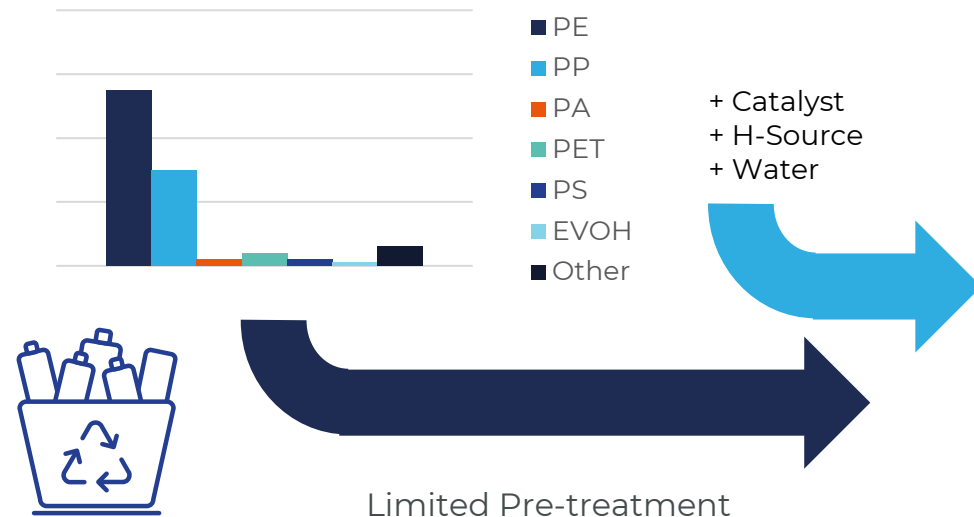
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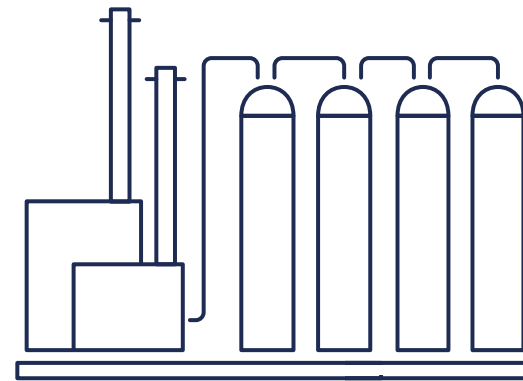


**Dirty complex waste streams from post consumer sources**

## Waste Plastic Composition – Representative Sample



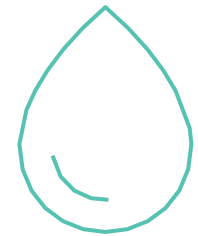
Note: Waste composition is largely PE & PP with **larger** amounts of intrinsic and extrinsic contaminating materials.



Modular HCT Reactor System  
Modular configuration  
To address changes in feedstock composition



Limited Post-treatment



HCT Oil

# 2024 Strategic goals

Three transformational business goals to commercialization



## **Next Generation Process**

Define design parameters for next scale-up unit



## **Customer Engagement Program**

From technology evaluation to technology collaborations



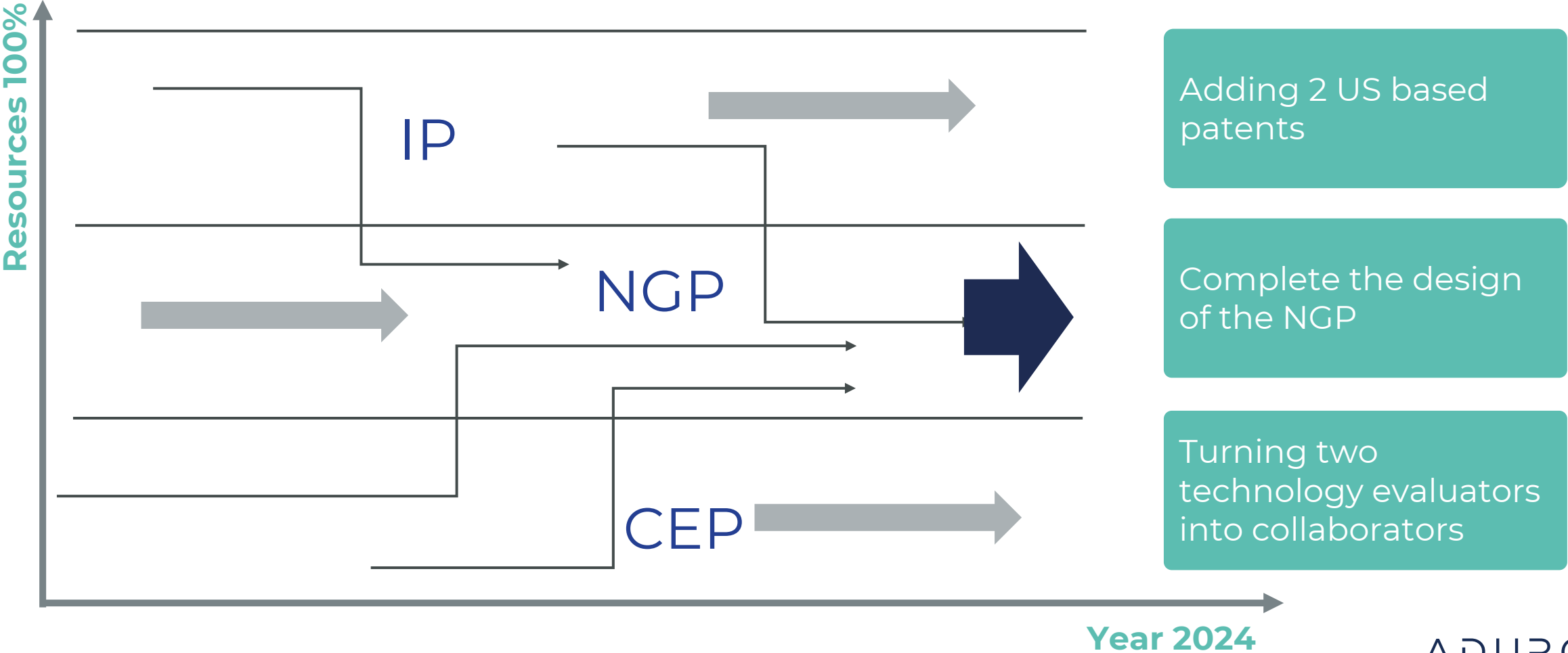
## **Intellectual Property**

Expand IP position by filing additional patents







# Commercialization program

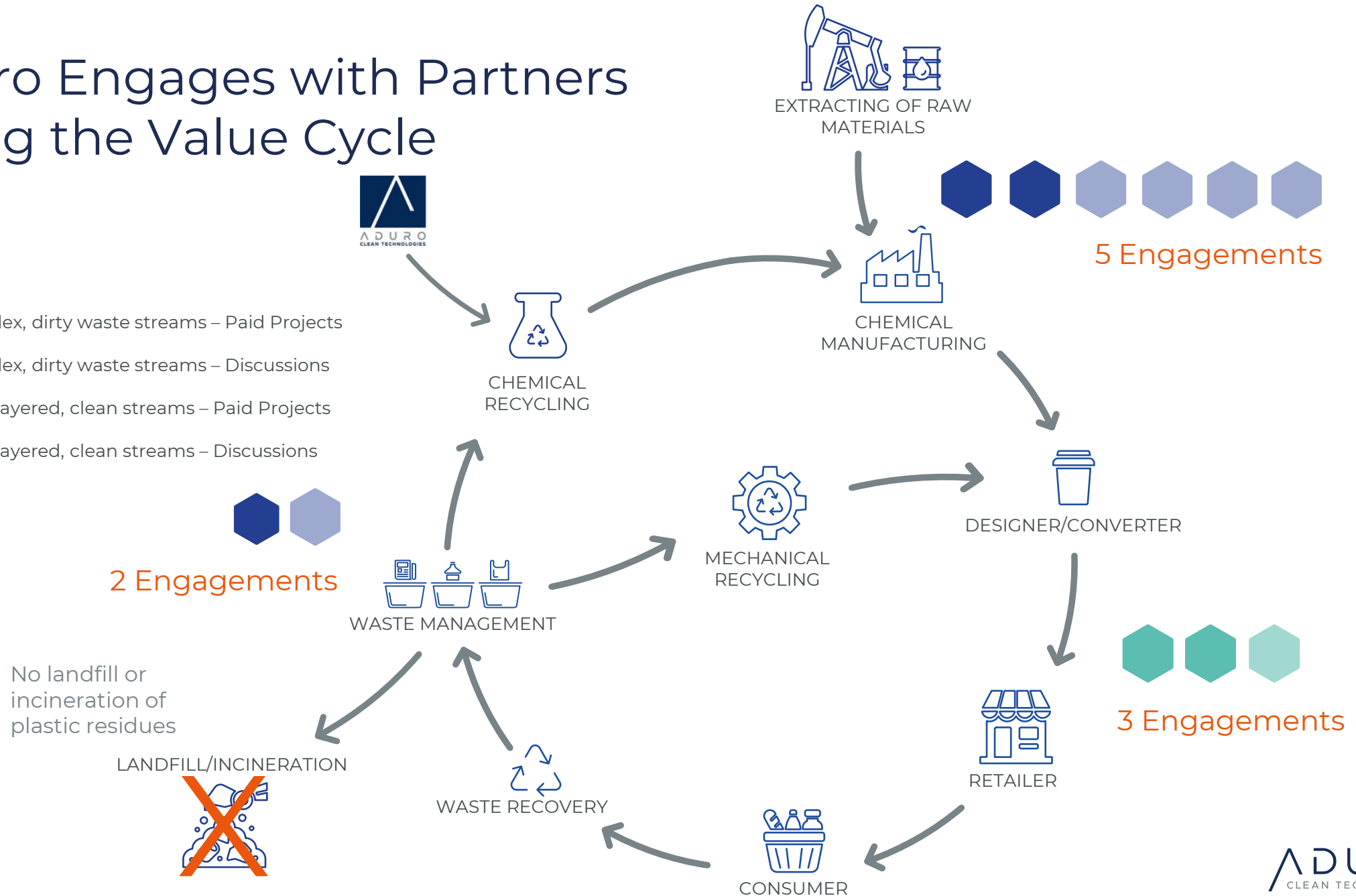
Integrating goals, adding value and mitigating risks



# Aduro Engages with Partners Along the Value Cycle

## Legend

-  Complex, dirty waste streams – Paid Projects
-  Complex, dirty waste streams – Discussions
-  Multi-layered, clean streams – Paid Projects
-  Multi-layered, clean streams – Discussions



# Customer Engagement Program (CEP)



Stage-gate engagement to evaluate, refine, and commercialize the technology with early adopters.

Value-adding and revenue-generating process to advance and de-risk the commercialization program.

Engage organizations that are in search for alternative technologies to pyrolysis.

**1**

### Technology Evaluation

We spearhead our technology and provide mainly data and results on general and specific feedstock to our potential partners and customers

**2**

### Collaboration

Together with our partners, we continue to develop, improve, and stabilize pilot-stage and pre-commercial settings, often tailoring solutions to meet the specific needs of each potential partner

**3**

### Commercialization

Continue the journey with first adopters to establish a commercial program

**Goal:** Convert two clients from Technology Evaluation to Technology Collaboration

# Revenue opportunities at every stage

**During scale-up from simple to complex, Aduro will engage customer with a modular design approach to meet their specific waste plastic management needs.**

HCT can be configured for different feedstocks and designed to provide different production solutions

Targeting simple small applications that can generate early-stage revenue

Moving over time to more complex applications

Starting with Technology Evaluations





# Human Capital

## 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

### Board

Recruited strong Board Member with broad chemistry experience.



**Marie Grönberg**  
Independent Board Member



**Stefanie Steenhuis**  
Head of Brand & Marketing

# Technology & Operations

## New office & laboratory

### Western Sarnia Lambton Research Park | Toolrite

Ongoing Testing of Bench & R2 Reactors – Laboratory Analysis

### London | Ontario



# Corporate Development

## Finance & Capital

Successful uplist to OTCQX, closing \$3.5M Raise



## Media Outreach

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



## Conferences

Conference Speaking Events,



## Geographic Expansion

Established subsidiary in the Netherlands



## Investor Relations



# Customer Engagement Program (CEP)

Launched CEP to facilitate early-stage engagement with customers.

## Technology Evaluation.

November 1, 2022 | Plastic Upcycling



October 11, 2023 | Plastic Upcycling



November 30, 2023 | Plastic Upcycling



## Technology Collaboration

July 30, 2024 | Plastic Upcycling



March 20, 2020 | Bitumen Upgrading



October 11, 2023 | Plastic Upcycling



March 2024 | Plastic Upcycling



## Paying Customers

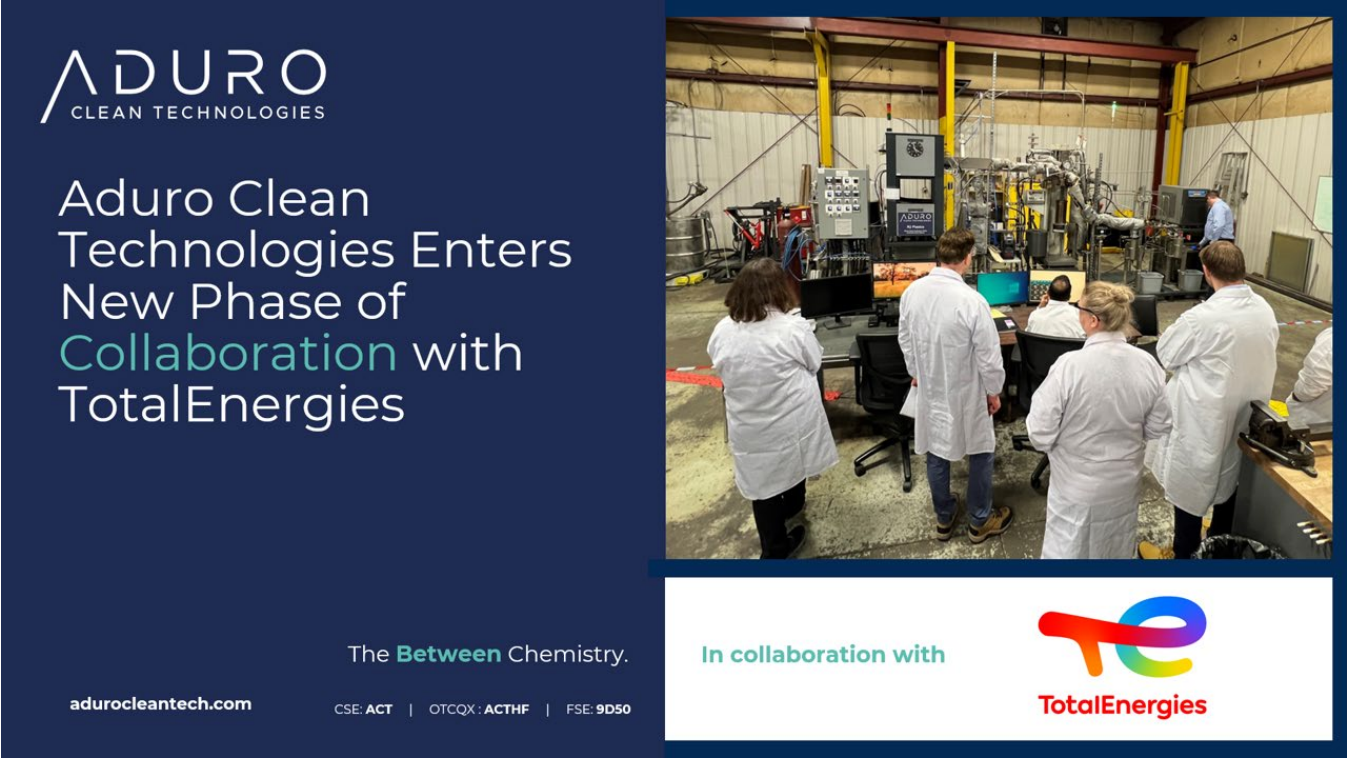
- 5** Petrochemical
- 1** Building materials
- 1** Food packaging

## Paying Customers

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

# Customer Engagement Program (CEP)

## Technology Collaboration




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CLEAN TECHNOLOGIES

Auro Clean Technologies Enters New Phase of **Collaboration** with TotalEnergies

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adurocleantech.com

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

In collaboration with 

### Technology Collaboration Agreement

Together with our partners, we continue to develop, improve, and stabilize pilot-stage and pre-commercial settings, often tailoring solutions to meet the specific needs of each potential partner.

The CEP encourages customers to engage with small scopes, then expand the scopes before moving into a collaboration phase.

### TotalEnergies timeline

- October 11, 2023  
Auro Clean Technologies Welcomes New Participants to its Customer Engagement Program
- November 30, 2023  
Auro Clean Technologies Expands Technology Evaluation Scope with Leading Petrochemical Company
- July 30, 2024  
Auro Clean Technologies Enters New Phase of Collaboration with TotalEnergies

## 2024 Goals

Our 2024 target is to move 2 Technology Evaluation engagements to a Technology Collaboration contracts.

# Capital structure

<b>STOCK LISTING</b>	CSE: <b>ACT</b>   OCTQX: <b>ACTHF</b>   FSE: <b>9D50</b>
<b>SHARES OUTSTANDING</b> (Issued & Outstanding / Fully Diluted)* (August 31, 2024)	27,225,729 / 31,998,274
<b>INSIDER OWNERSHIP</b>	41 %
<b>WARRANTS / OPTIONS OUTSTANDING:</b>	1,518,204 / 3,254,341 *
<b>MARKET CAPITALIZATION ** (August 31, 2024)</b>	CAD <b>\$169 M</b> (USD <b>\$125 M</b> )

\* Warrants are exercisable at an average price of CAD **\$3.4775** (range CAD \$1.625-\$5.20), with 20% held by Insiders and Options are exercisable at an average price of CAD **\$3.6582** (range CAD \$2.1125-\$6.50), with 60% held by Insiders & senior management.

\*\* Market capitalization is calculated based on total shares issued and outstanding on August 30, 2024, multiplied by the closing price on August 30, 2024, of CAD \$6.22.

# Management Team



**Birendra Adhikari**  
Head of  
Research & Development



**Eric Appelman**  
Chief Revenue Officer



**Mena Beshay**  
Chief Financial Officer



**Gene Cammack**  
Chief Operating Officer



**Abe Dyck**  
Head of Corporate  
Development / Investor  
Relations



**Anil Jhavar**  
Chief Scientist



**Stefanie Steenhuis**  
Head of Brand & Marketing



**Marcus Trygstad**  
Co-Founder &  
Principal Scientist



**Ofer Vicus**  
Co-Founder &  
Chief Executive Officer

# Board of Directors



**Marie Grönberg**  
Director



**Peter Kampian**  
Director



**James E. Scott**  
Director



**Marcus Trygstad**  
Co-Founder &  
Principal Scientist



**Ofer Vicus**  
Co-Founder &  
Chief Executive Officer





THANK YOU!

## Contact

### **Ofer Vicus**

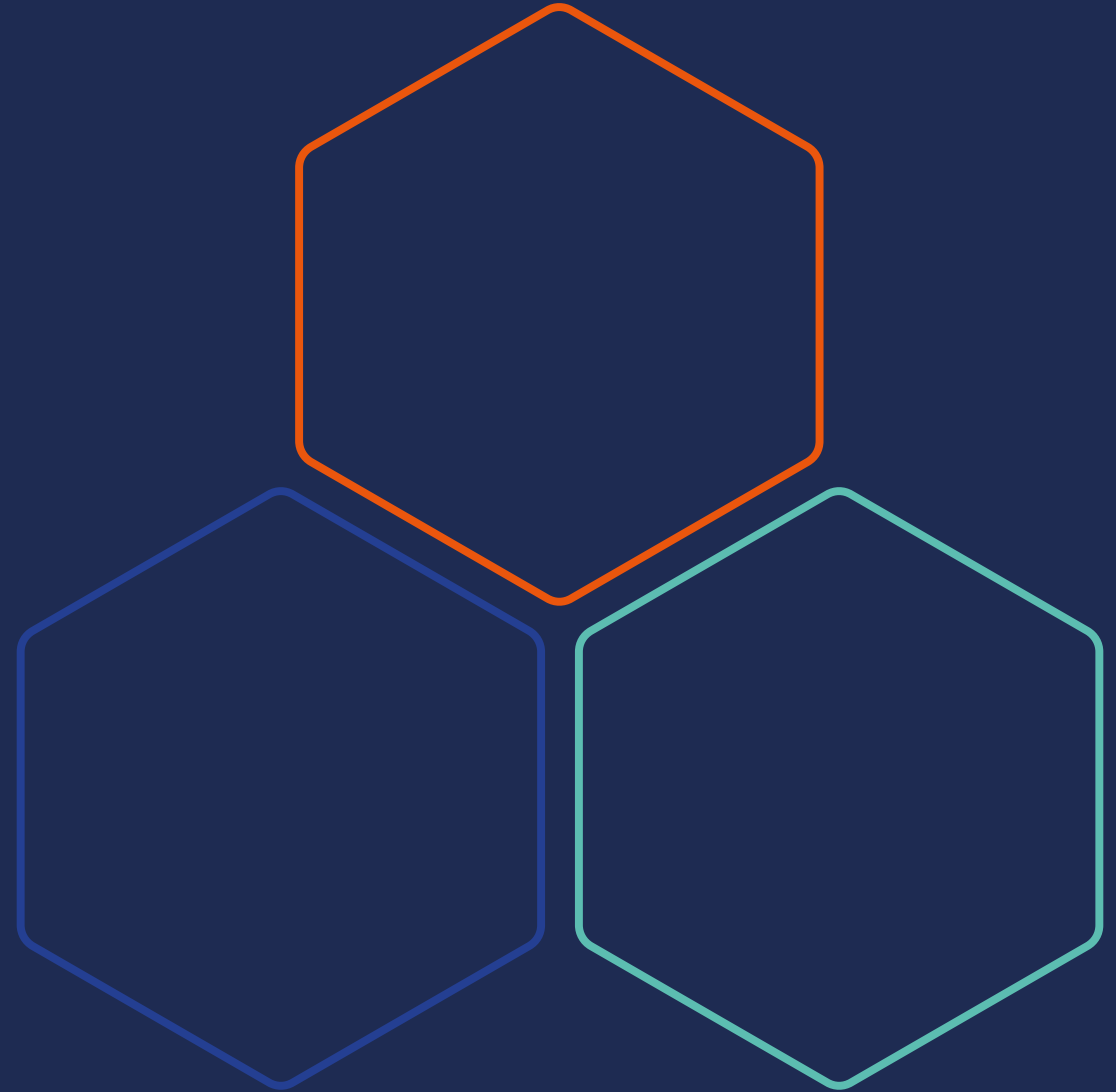
Chief Executive Officer  
ovicus@adurocleantech.com

### **Abe Dyck**

Head of Corporate Development / Investor Relations  
adyck@adurocleantech.com  
1 226 784 8889

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# Appendix



# Next Generation Process (NGP)

1

## Next Generation Process

Define design parameters for next scale-up unit

- Defining and optimizing the commercial process through a series of targeted programs
- Generating valuable data while working with customers to support relevant work on the NGP
- Strengthening the NGP position intellectually by investigating and applying unique ART



**Goal:** Completion of the pilot design, built with industrial components to take real world feedstocks and produce product with specification defined by our customers.

# Intellectual Property

3

## Intellectual Property

Expand on our IP position by conducting ongoing research and filing additional patents

- Our team constantly engages in research driven by curiosity and creativity
- Our customers continually inspire new areas of application and research
- With this we continuously build on and expand our knowledge
- Patents protect our knowledge and give us a competitive advantage in the market

**Goal:** File a minimum of 2 additional patents

