



Corporate Presentation April 2022

CSE: **ACT** | OTCQB: **ACTHF** | FSE: **D950**

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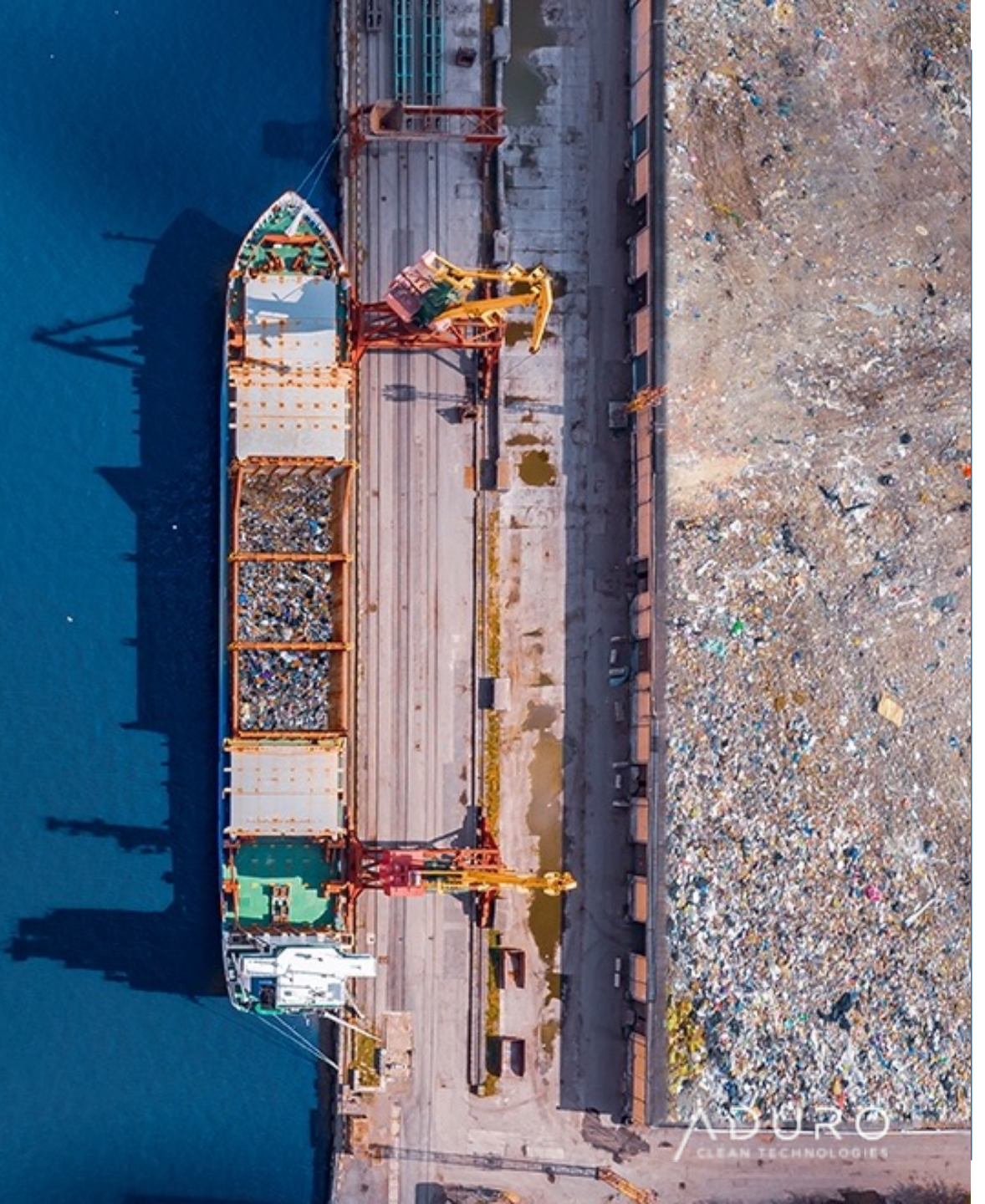
Waste plastics is a growing global issue creating significant demand for recycling/upcycling solutions. Existing technologies are challenged with environmental, operational, and economical limitations.

”

— *A Novel Solution To Plastic Pollution*

**Forbes**

***Aduro has developed the next generation technology to address these limitations.***



**ADURO**  
CLEAN TECHNOLOGIES



# A NEXT GENERATION TECHNOLOGY PLATFORM TURNING WASTE INTO HIGH VALUE PRODUCTS



## Hydrochemolytic™ Technology Platform

High yield, low energy, strong  
environment benefits

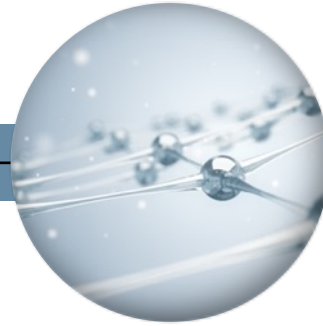
Turn industrial plastic waste into  
high value products already on-site

Modular Design, fit for B2B

Average 6 years payback

Ideal for circular economy

Enable business to achieve ESG  
leading performance



## Strong Patent Strategy

Seven Patents, 3 issued,  
4 pending

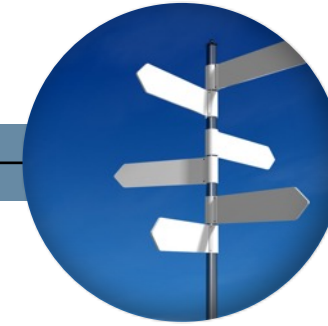
More in Development

**Hydro**

Water

**Chemolysis**

Chemical deconstruction of molecules



## Multiple Market Applications

Bitumen Upgrading,  
Renewables Upgrading &  
Plastics Upcycling + Others

Global Demand for Chemical  
Innovation



# RECENT MILESTONE ACCOMPLISHMENTS

- Third Party, Independent Technology Validation
- Modular Go To Market Strategy
  - A three-part production strategy is in place to build scalable facilities to produce ~10,000 tons of fuel and/or high value specialty chemicals annually.
- Global Engagements
  - Global interest to build plants around the world.
- Strong Management & Board
  - Addition of Experienced COO
  - Expanded Board with Independent Director
- Established Customer Trials Program
  - Near term revenue from feedstock assessment
  - Growing pipeline of interested collaborators



# THREE MARKET VERTICALS

- Deconstruction of macromolecules is common to all market applications.
- Tune chemistry by controlling the interplay of processing parameters.
- Large Total Addressable Markets

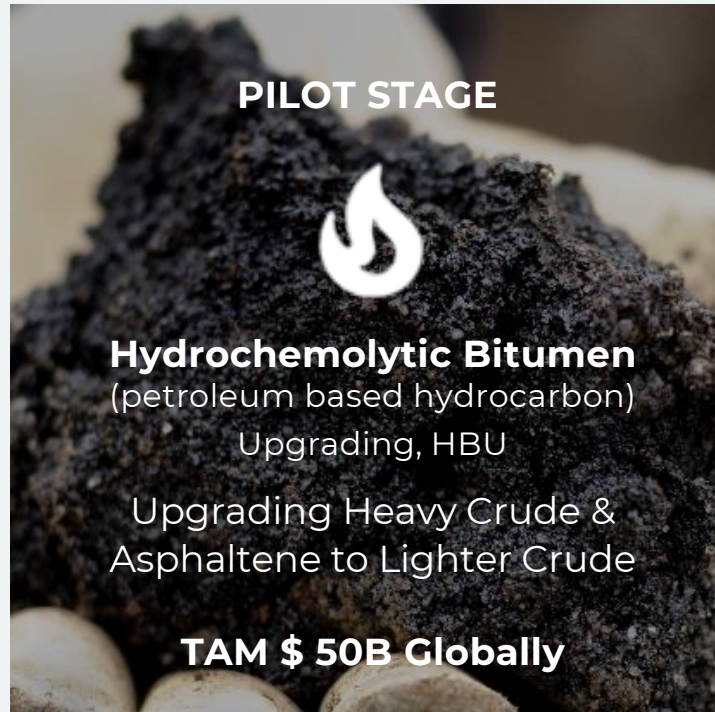


**PILOT STAGE**

**Hydrochemolytic Plastics**  
Upcycling, HPU

Upcycling End-of-Life Polymers  
to Chemicals & Fuels

**TAM \$ 45B Globally**



**PILOT STAGE**

**Hydrochemolytic Bitumen**  
(petroleum based hydrocarbon)  
Upgrading, HBU

Upgrading Heavy Crude &  
Asphaltene to Lighter Crude

**TAM \$ 50B Globally**



**ADVANCE RESEARCH**

**Hydrochemolytic Renewables**  
Upgrading, HRU

Upgrading Renewable Oils  
to Renewable Diesel

**TAM \$ 121B Globally**

Source;

- 1) <https://www.iea.org/reports/oil-market-report-february-2022>
- 2) <https://www.researchandmarkets.com/reports/5317153/global-plastic-recycling-market-2021-2026-by>
- 3) <https://www.globenewswire.com/news-release/2022/01/19/2369236/0/en/Biofuels-Market-Size-to-Surpass-US-201-21-Billion-by-2030>

# CURRENT APPROACHES TO PROCESS WASTE PLASTICS

## CHEMOLYSIS: A New Chemical Recycling Approach to Convert Diverse Feedstock

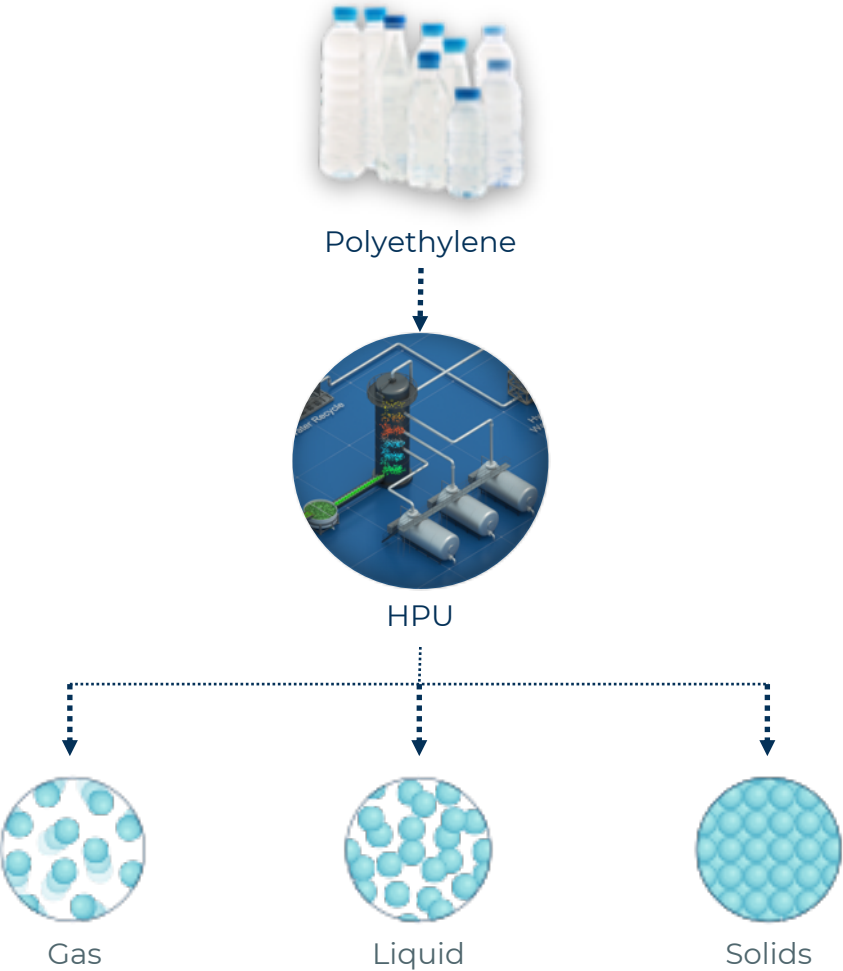
THERMOLYSIS	SOLVOLYSIS	SOLVATION	CHEMOLYSIS
 		 	
 		 	
 		 	
 			
			

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

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

# HPU: HYDROCHEMOLYTIC PLASTICS UPCYCLING

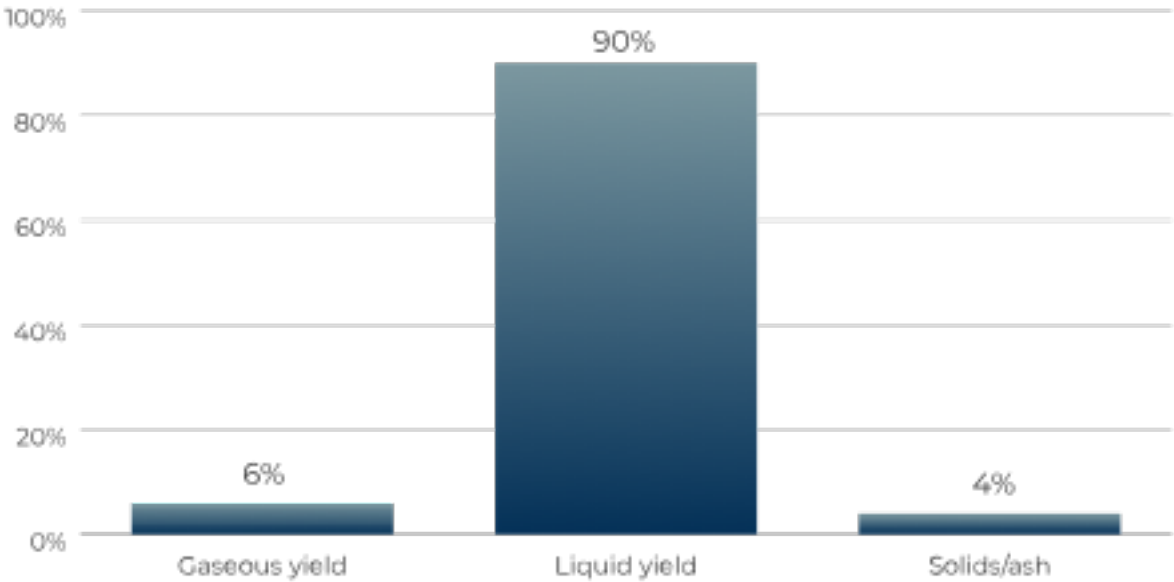
## PROCESS CONDITIONS AND MASS BALANCE



## PROCESSING CONDITION

Water to plastic waste ratio (w/w)	2:1 to 4:1
Reactor operating pressure (psi)	2000 – 3000
Reactor operating temperature (°C)	300 – 400

## OVERALL MASS BALANCE

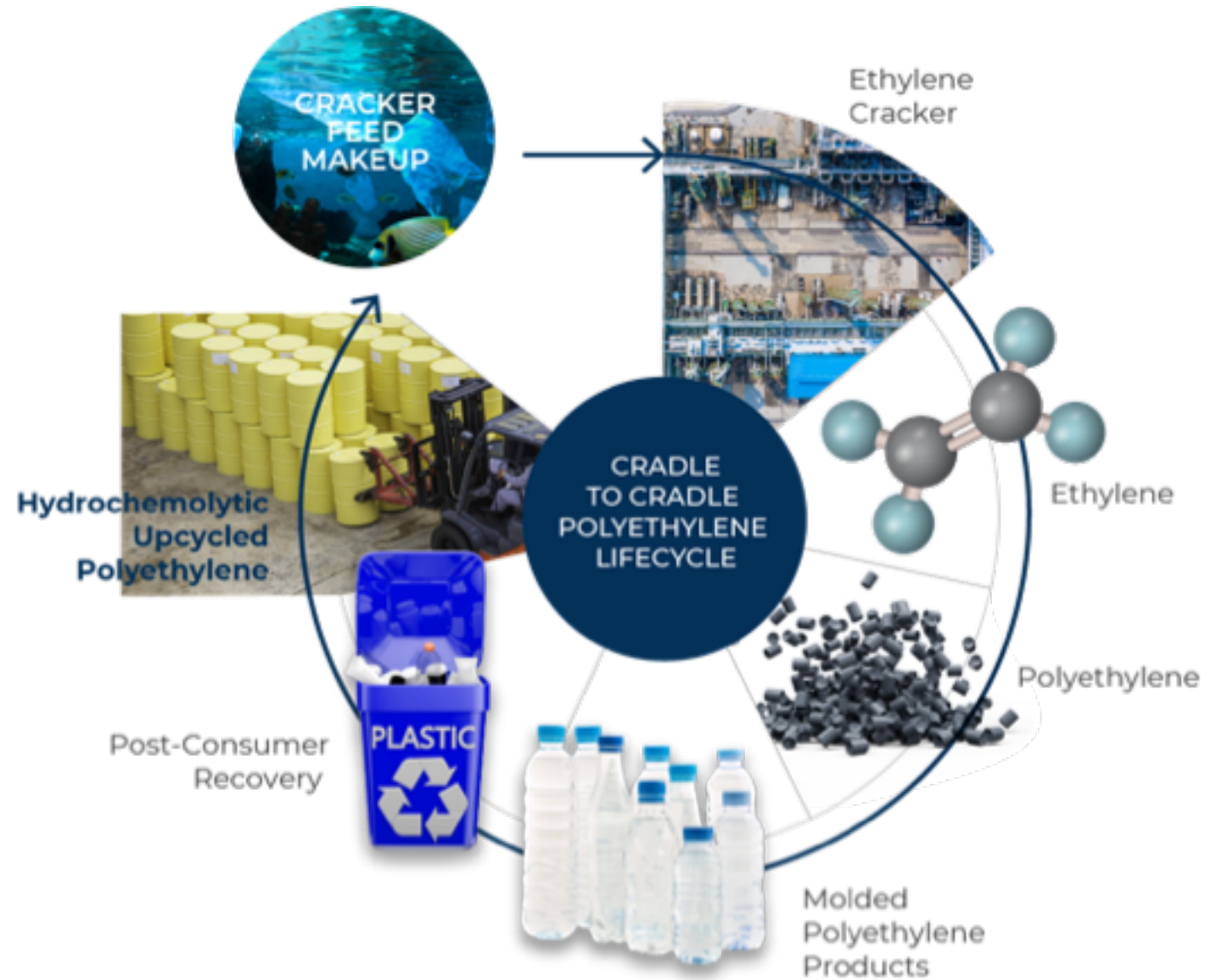




# HPU

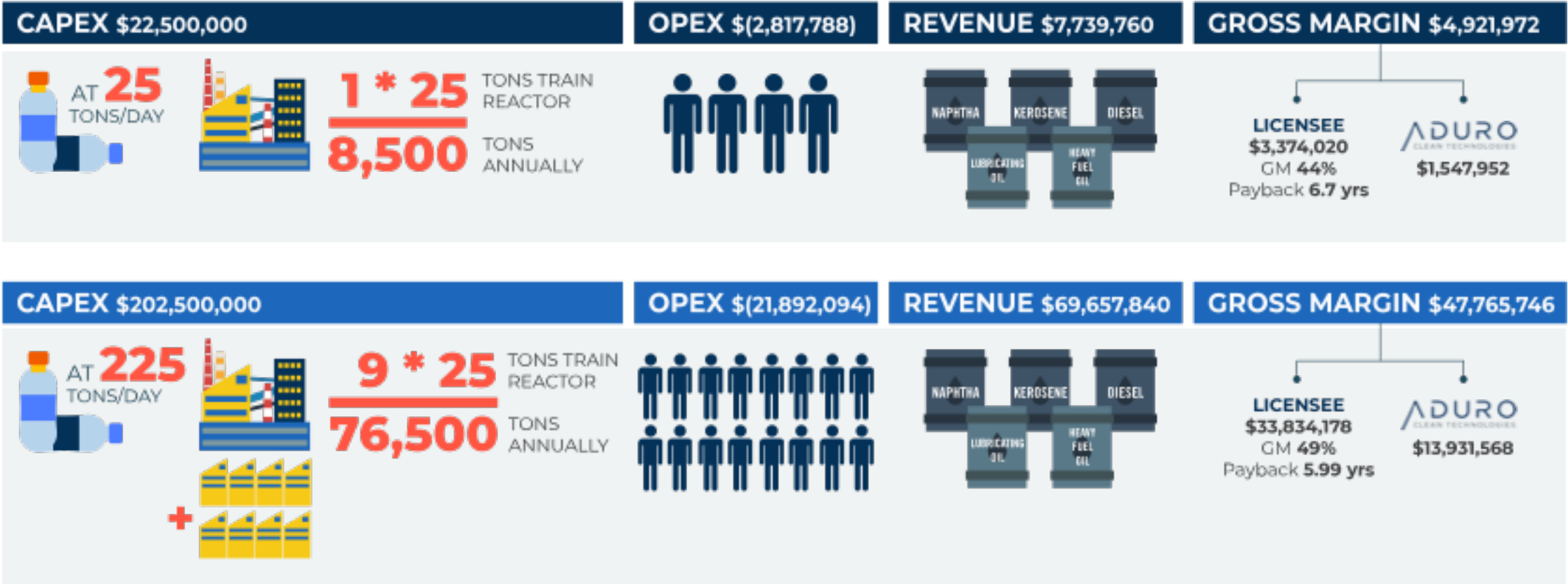
## HYDROCHEMOLYTIC PLASTICS UPCYCLING

Polyethylene  
Polypropylene  
Polystyrene



# HPU: HYDROCHEMOLYTIC PLASTICS UPCYCLING




Use Case Illustration of Licensing Model Economics – Polyethylene





# HPU: HYDROCHEMOLYTIC PLASTICS UPCYCLING

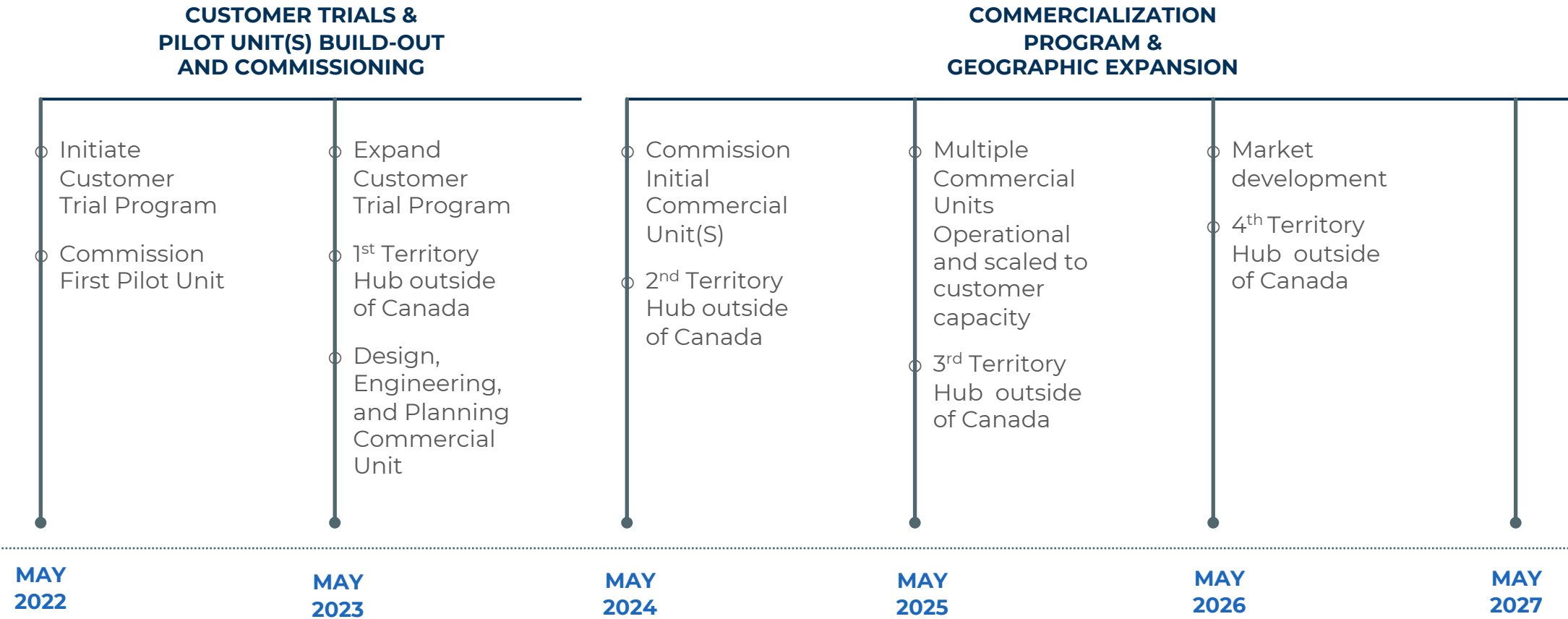
## Use Case Illustration of Economics: Owned & Operated Vs. Licensing

	 <b>25 Tons/day =</b> 1 * 25 Tons Train Reactor 8,500 Tons Annually		 <b>75 Tons/day =</b> 3 * 25 Tons Train Reactors 25,500 Tons Annually		 <b>225 Tons/day =</b> 9 * 25 Tons Train Reactors 76,500 Tons Annually	
	LICENSING	OWNED & OPERATED	LICENSING	OWNED & OPERATED	LICENSING	OWNED & OPERATED
<b>CAPEX</b>	22,500,000	22,500,000	67,500,000	67,500,000	202,500,000	202,500,000
Revenue **	<b>7,739,760</b>	<b>7,739,760</b>	<b>23,219,280</b>	<b>23,219,280</b>	<b>69,657,840</b>	<b>69,657,840</b>
Operating Expense	(2,817,788)	(2,817,788)	(7,637,365)	(7,637,365)	(21,892,094)	(21,892,094)
Feedstock Acquisition *	–	(1,700,000)	–	(5,100,000)	–	(15,300,000)
Aduro Licensing Fee **	(1,547,952)	–	(4,643,856)	–	(13,931,568)	–
<b>Gross Margin</b>	<b>3,374,020</b>	<b>3,221,972</b>	<b>10,938,059</b>	<b>10,481,915</b>	<b>33,834,178</b>	<b>32,465,746</b>
GM %	<b>44%</b>	<b>42%</b>	<b>47%</b>	<b>45%</b>	<b>49%</b>	<b>47%</b>
Payback 'years'	<b>6.67</b>	<b>6.98</b>	<b>6.17</b>	<b>6.44</b>	<b>5.99</b>	<b>6.24</b>
<b>For Aduro:</b>						
Gross Margin	<b>1,547,952</b>	<b>3,221,972</b>	<b>4,643,856</b>	<b>10,481,915</b>	<b>13,931,568</b>	<b>32,465,746</b>
CAPEX Required	N/A	Yes	N/A	Yes	N/A	Yes
Payback 'years'	N/A	<b>6.98</b>	N/A	<b>6.44</b>	N/A	<b>6.24</b>

\* The cost for washed and ready to process feedstock of polyethylene in North, Central, and Latin America ranges from the equivalent of \$50 to \$250 CAD per ton depending on various factors. The above use case illustration is assuming a cost of \$200 per ton of feedstock.

\*\* Revenue is calculated with the assumption of 80% yield (vs. 90%) and the licensing fee is calculated based on 20% of gross Revenue.

# LONG TERM MILESTONES & EXPANSION PLAN





# LONG TERM MILESTONES & EXPANSION PLAN

After the first hub in Canada, each new hub is a duplicate of proven operations, cutting costs and reducing risk.

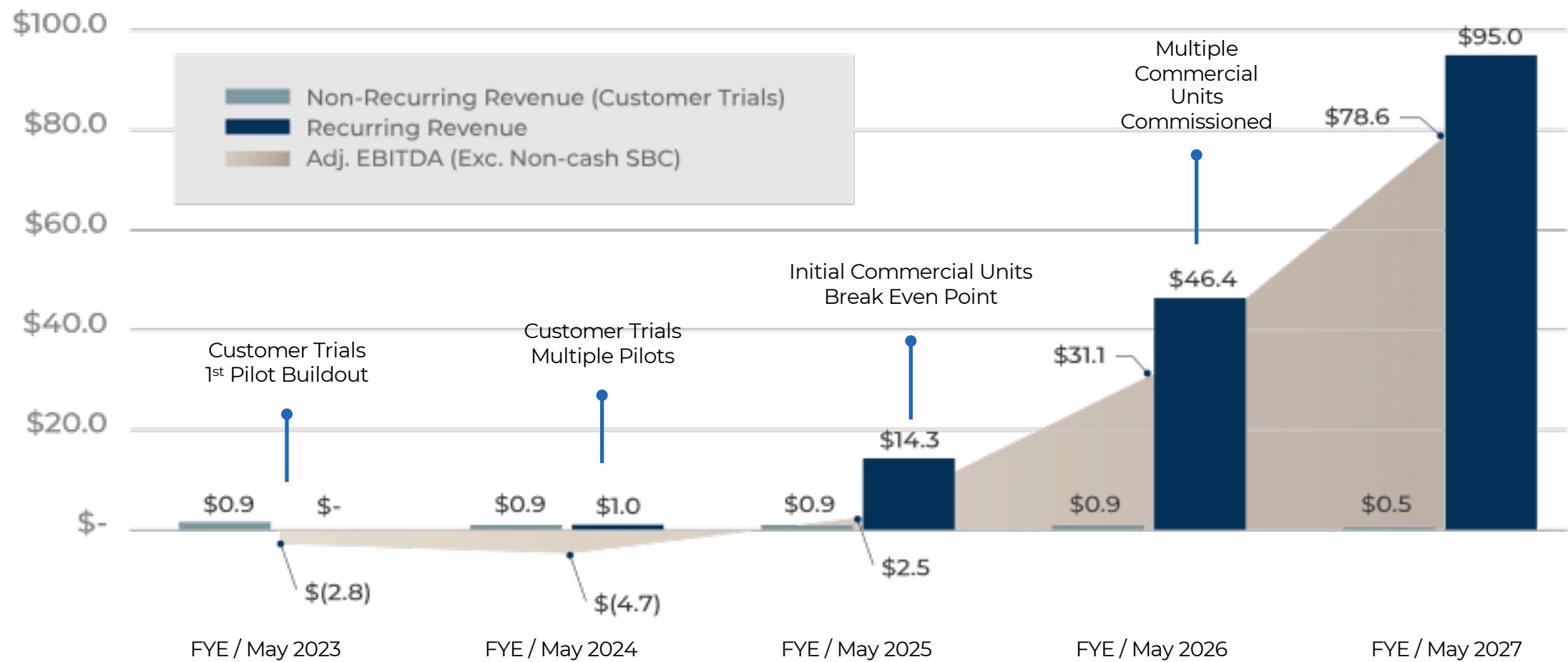
## TODAY

Ongoing discussions at various stages with over **13** organizations across **7** countries.

- 📍 Current Lab/Operations
- 📍 Planned Operational Hubs
- 📍 Ongoing customer discussions



# PROFORMA FINANCIAL FORECAST





# CAPITAL STRUCTURE

<b>STOCK LISTING</b>	CSE: <b>ACT</b>   OCTQB: <b>ACTHF</b>   FSE: <b>95D0</b>
<b>SHARES OUTSTANDING</b> (B/FD)*	48,942,087 / 76,557,155
<b>INSIDER OWNERSHIP</b>	48 %
<b>WARRANTS / OPTIONS OUTSTANDING:</b>	8,856,741 / 5,424,999 *
<b>SPECIAL WARRANTS</b> (FD when released from trust)	13,333,328 **
<b>MARKET CAPITALIZATION</b> (February 28, 2022)	<b>\$34,260,000</b>

\* Warrants are exercisable at an average price of \$0.57 (range \$0.30-\$0.80), with 32% held by Insiders and Options are exercisable at an average price of \$0.68 (range \$0.65-\$0.80), with 61% 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.

# WHY INVEST NOW ?

- **Unique patented** technology that is internally developed and has been **independently validated**
- An expected high output yield of **> 80%** and operating margins nearing **50%**
- Key engagements with Switch Energy in Ontario and Brightland's in the Netherlands for future **pilot sites**
- Ongoing discussions with **13 potential customers**, across **7 countries**, including **Fortune 500** companies
- Revenue ramp-up through commercial deployment and expected to achieve Annual Recurring Revenue of **+\$90M** with EBITDA Margins of **+80%** by Year 5
- Management is fully aligned with shareholders with c. **50%** ownership and eager to increase shareholder value
- Over 10 years of development, application expansion, and rigorous testing with total capital/resources invested in the Technology and IP to date **> \$50M**
- Undervalued when compared to our peers with comparable valuations north of +\$1B that shows the Company is significantly undervalued with a **\$35M Market Cap**

## HIGH GROWTH INVESTMENT OPPORTUNITY



ADURO  
CLEAN TECHNOLOGIES





## CONTACT

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# THANK YOU!