# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

F	ΛD	M	Q	$\boldsymbol{K}$
	,,,		· (1):	- 17

### **CURRENT REPORT**

Pursuant to Section 13 or 15(d) of The Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): November 28, 2023

# **Ecovyst Inc.**

Commission File Number: 001-38221

Delaware (State or other jurisdiction of incorporation or organization) 81-3406833 (I.R.S. Employer Identification No.)

300 Lindenwood Drive Malvern, Pennsylvania (Address of principal executive offices)

19355 (Zip Code)

(484) 617-1200 (Registrant's telephone number, including area code)

	<u> </u>			
	ck the appropriate box below if the Form 8-K filing is inter- tioning provisions:	nded to simultaneously satisfy the filing	g obligation of the registrant under any of the	
	Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)			
	Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)			
	Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))			
	Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))			
Securities registered pursuant to Section 12(b) of the Act:				
	Title of each class	Trading symbol	Name of each exchange on which registered	
	Common stock, par value \$0.01 per share	ECVT	New York Stock Exchange	
	cate by check mark whether the registrant is an emerging geter) or Rule 12b-2 of the Securities Exchange Act of 1934		5 of the Securities Act of 1933 (§230.405 of this	
			Emerging growth company $\square$	
	emerging growth company, indicate by check mark if the vised financial accounting standards provided pursuant to	S	1 1,5	

### Item 7.01. Regulation FD Disclosure.

On November 28, 2023, Ecovyst Inc. will host an Investor Day. A copy of the presentation to be displayed during the Investor Day is furnished as Exhibit 99.1 to this Current Report on Form 8-K and is incorporated herein by reference.

The information in this Current Report on Form8-K (including the exhibits attached hereto) shall not be deemed "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that Section. The information in this Current Report on Form 8-K (including the exhibits attached hereto) shall not be deemed incorporated by reference into any filing or other document under the Securities Act of 1933, as amended, or the Exchange Act, except as shall be expressly set forth by specific reference in such filing or document.

### Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

Evh	ih	:

No.	Description
99.1	Ecovyst Inc. Investor Presentation, dated November 28, 2023
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)

### SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: November 28, 2023 **Ecovyst Inc.** 

> /s/ Joseph S. Koscinski By:

Name: Joseph S. Koscinski
Title: Vice President, Chief Administrative Officer, General Counsel

and Secretary



### **Legal Discussion**

Continuing Operations Financial results are presented on a continuing operations basis, which excludes the Performance Materials business and Performance Chemicals business unless otherwise indicated

Forward-Looking Statements Some of the information contained in this presentation, the conference call during which this presentation is reviewed and any discussions that follow constitutes "forward-looking statements." Forward-looking statements can be identified by words such as "anticipates," "plans," "seeks," "believes," "estimates," "expects," "projects" and similar references to future periods. Forward-looking statements are based on our current expectations and assumptions regarding our business, the economy and other future conditions. Because forward-looking statements relate to the future, they are subject to inherent uncertainties, risks and changes in circumstances that are difficult to predict. Examples of forward looking statements include, but are not limited to, our future results of operations, financial condition, liquidity, prospects, growth, goals, strategies, capital allocation programs (including our share repurchase program), product and service offerings, and expected end use demand trends and 2023-2028 financial goals. Our actual results may differ materially from those contemplated by the forward-looking statements. We caution you, therefore, against relying on any of these forward-looking statements. They are neither statements of historical fact nor guarantees or assurances of future performance. Important factors that could cause actual results to differ materially from those in the forward-looking statements include, but are not limited to, regional, national or global political, economic, business, competitive, market and regulatory conditions, including tariffs and trade disputes, currency exchange rates, effects of inflation, and other factors, including those described in the sections titled "Risk Factors" and "Management's Discussion & Analysis of Financial Condition and Results of Operations" in our filings with the SEC, which are available on the SEC's website at www.sec.gov. Any forward-looking statement made by us in this presentation, the conference call during which this

Non-GAAP Financial Measures This presentation includes certain non-GAAP financial measures, including adjusted EBITDA, Organic Adjusted EBITDA margin, adjusted free cash flow, net debt leverage ratio, return on average net tangible assets, and cash conversion, which are provided to assist in an understanding of our business and its performance. These non-GAAP financial measures should be considered only as supplemental to, and not as superior to, financial measures prepared in accordance with GAAP. Non-GAAP financial measures should be read only in conjunction with consolidated financials prepared in accordance with GAAP. Reconciliations of non-GAAP measures to the relevant GAAP measures are provided in the appendix of this presentation. In reliance upon the unreasonable efforts exemption provided under Item 10(e)(1)(i)(8) of Regulation S-K, the Company is not able to provide a reconciliation of the Company's non-GAAP financial guidance to the corresponding GAAP measures without unreasonable effort because of the inherent difficulty in forecasting and quantifying certain amounts necessary for such a reconciliation such as certain non-cash, nonrecurring or other items that are included in net income and EBITDA as well as the related tax impacts of these items and asset dispositions / acquisitions and changes in foreign currency exchange rates that are included in cash flow, due to the uncertainty and variability of the nature and amount of these future charges and costs. Because this information is uncertain, the Company is unable to address the probable significance of the unavailable information, which could be material to future results.



# Agenda





# Kurt Bitting, CEO

- More than **25 years** of experience
- Originally joined the company in 2006, serving in Ecoservices, at the time a division of Rhodia, as Sulfur Products Manager, Business Director and Vice President
- Played a key role in **Ecoservices' divestiture** from Solvay and eventual merger with PQ Corp
- Appointed President, Ecoservices in 2019
- Promoted to Chief Executive Officer in April 2022





# Strategy Update

**Kurt Bitting** 

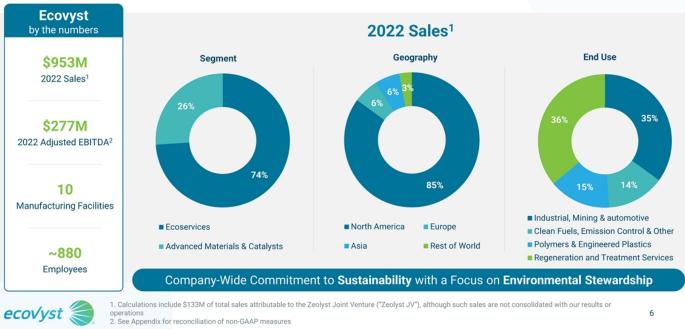
**Chief Executive Officer** 





# **Company Overview**







### Historical Financial Performance







- Includes 50% share of sales from Zeolyst Joint Venture
   See Appendix for reconciliation of non-GAAP measures
   Cash conversion % = (Adjusted EBITDA CapEx) / (Adjusted EBITDA)



### **Advanced Materials & Catalysts**

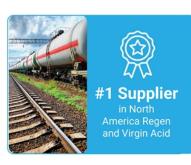
Formerly Catalyst Technologies

Silica Catalysts for HDPE

Hydrocracking Catalysts

Renewable Fuels Materials

## Key Supplier of Essential Products And Services



### **Ecoservices**

Regeneration for North American Refining, Supplying Leading Refineries

Largest Producer of Merchant Sulfuric Acid

Leader in Catalyst Activation Technologies





Core material science expertise highly aligned with decarbonization technologies



Established solutions in sustainable segments with large growth potential



Longstanding, sticky relationships with high barriers to entry



Favorable industry structures that protect margins and balance sheet



Unrivaled supply infrastructure and manufacturing networks



Competitive

Advantages Drive Value Proposition

# Decades of History, Adapting to Solve the Problems of the Future





## Strategy for Creating Shareholder Value



### **Strengthen Leading Positions in Core Segments**

- Maximize production capabilities and reliability via digitization, Al, and efficiency gains
- · Deliver strong margins and cash generation through commercial excellence



### **Capture Share in Industrial Segments**

- · Growth through capacity expansion and debottlenecking
- · Leverage technology and service advantages to capture share



Accelerate Growth in **Emerging** Sustainable and Low Carbon Segments

- · Drive innovation through material science expertise
- · Commercialize new products through deep customer relationships
- Expand capacity and technology via organic and inorganic investments



Sustain an industry-leading safe and responsible workplace

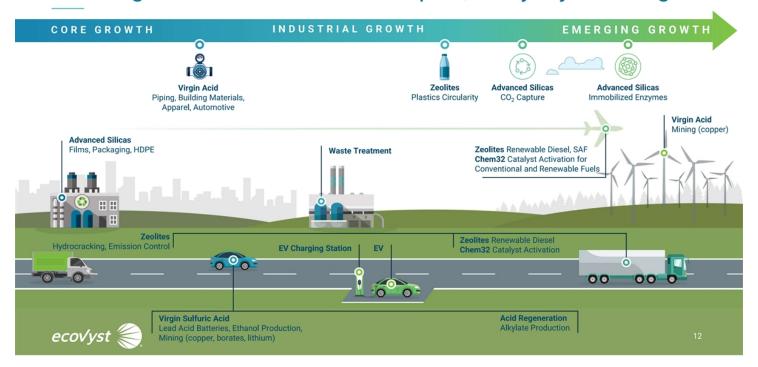


Polyethylene
Virgin Acid
Custom & Chemical Catalysts

Functional Silica/Enzymes
Advanced Plastics Recycling
Activation and Services
Carbon Capture



# Enabling Customers to Solve Complex, Everyday Challenges



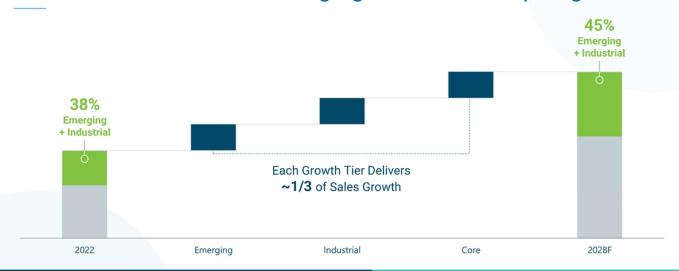
# Well-Positioned to Capitalize on Global Demand

## Fundamental Growth Drivers Expected to Remain Favorable

	Industry Trend	Key Ecovyst Exposure	Ecovyst Growth Projection
Core	Clean Fuels	Regeneration, Hydrocracking	GDP+
Industrial	Green Infrastructure/EVs —— Global Firm and Packaging	Virgin Acid —- Advanced Silicas	GDP++
Emerging	Renewable Fuels and Sustainable Aviation Fuel Plastics Circularity Bio & Green Chemistry Carbon Capture/Clean Water	Zeolites — Functionalized Silica for Immobilized Enzymes — Silica for Adsorbents	GDP+++



# Balanced Growth from Emerging and Leadership Segments





Attractive Organic Growth, Best-in-Class Margins, Strong Cash Generation

**Compounding Shareholder Returns** 



### **Ecoservices**





\$206 Million September 2023 TTM Segment Adjusted EBITDA<sup>1</sup>

**Applications** 



### **Regeneration Services**

Regeneration services for refinery alkylation



### Virgin Sulfuric Acid

Oleur

High strength for mining minerals and metals production

Electrolyte grades (for water treatment, semiconductors, and lead acid batteries)



### **Catalyst Activation**

Hydro-processing

Renewable fuel production





1. See Appendix for Reconciliation of non-GAAP measures

## **Ecoservices Growth Drivers**

### Driven by a Changing and Charging World

**Expected Growth** Rates 2022-2028

Favorable Industry Structure

	Regeneration Services	Favorable alkylate demand for high-octane fuels — High industry utilization	Gasoline Exports <sup>1</sup> : +800 KBPD +1300 KBPD by 2040 Refinery Utilization <sup>1</sup> : 92%
	Virgin Sulfuric Acid	Electrification and growing needs for industrial applications (mining, nylon)	Copper Production <sup>2</sup> : +3%
	Catalyst Activation	Growing demand for ex-situ activation in both traditional and renewable fuels	Activation <sup>3</sup> : +17%
	Treatment Services	Debottlenecking providing for further growth opportunities	\$19B: North American Chemical Expansions by 2025 <sup>4</sup>
2000	FIA A I F OHI- KDDD	was de of bessele and desc	



2023 EIA Annual Energy Outlook. KBPD = thousands of barrels per day.
Bloomberg, Refined Copper Demand from traditional versus energy transition sectors
Management Estimate
American Chemistry Council - Chemistry Outlook June 2023

# Advanced Materials & Catalysts



\$242 Million September 2023 TTM Sales<sup>1,2</sup>



**\$75 Million**September 2023 TTM
Segment Adjusted
EBITDA<sup>2</sup>

**Applications** 



### **Advanced Silicas (100% Ownership)**

HDPE and LLDPE production

Chemical Catalysts

Functionalized Silicas

Carbon Capture



### **Zeolyst International (50% Ownership)**

Hydrocracking

Renewable Fuels

**Emission Control Technologies** 

Advanced Plastics Recyclin



1. Includes 50% share of sales from the Zeolyst Joint Venture 2. See Appendix for Reconciliation of non-GAAP measures



## Advanced Materials and Catalysts Growth Drivers

### Global Sustainability Initiatives Boosting Growth

### Expected CAGR 2022-2028

Advanced **Silicas** 

Polyethylene Strengthening and Light Weighting of Materials

**Bio-Catalysts and Green Chemistry** 

Carbon Capture

**Zeolyst** International Decarbonization of Heavy Duty and Air Transport

**Advanced Plastics Recycling** 

Polyethylene<sup>1</sup> +3%

CO<sub>2</sub> Capture<sup>2</sup> +25%

Renewable Diesel and SAF Production<sup>3</sup> +27%

Plastics Circularity<sup>4</sup> +25%



- Chemical Market Analysis by OPS April 23
   Bloomberg NEF, Global Carbon Capture to Rise Six Fold
   Bloomberg Renewable Fuels Announced Capacity Database Oct 23
   Bloomberg NEF and Management Estimates

# Vision for Long-Term Sustainable Growth



### Sustainability-Driven Innovation

Materials science expertise enables sustainable solutions

Leverage development and rapid commercialization capabilities



# **Share Gain Opportunities**

Asymmetric win rate with leading producers

Deliver attractive margins via valuebased pricing



# Capital-Efficient Expansion

Capacity expansions and debottlenecking

Technology-enabled reliability and efficiency gains



### Opportunistic Inorganic Growth

Adjacent and sensible bolt-on opportunities

Increase scale and technical capabilities





Flat operational hierarchy with strong focus on developing lasting customer relationships

# Culture of Purpose is Driving Success



Empowered employees are driven to execute with **speed** and **efficiency** 



High number of customer touchpoints leading to meaningful partnerships and innovative solutions



ZU

# Committed to Implementing the Ecovyst Strategy and Creating Value for Shareholders



Kurt Bitting Chief Executive Officer 25 Years of Experience



Mike Feehan Chief Financial Officer 25 Years of Experience



George L. Vann
President, Ecoservices
30+ Years of Experience



Paul Whittleston President, Advanced Materials & Catalysts 30 Years of Experience



Sean Dineen
Vice President, Strategy
and Business Development
25+ Years of Experience



Colleen Donofrio
Vice President, Environment
& Sustainability
35+ Years of Experience



Joseph S. Koscinski Chief Administrative Officer, Vice President, Secretary & General Counsel 25+ Years of Experience



Board Chair Kevin Fogarty Board Members David Bradley Anna Catalano



# Attractive Investment Case Driven by Profitable Growth

- Products and technology already capitalizing on global sustainability trends
- Industry leadership positions provide durable competitive advantages
- 3 Attractive and stable margins
- Strong free cash flow generation
- Ability to reinvest earnings into business, funding strong organic growth opportunities
- Balanced capital allocation strategy



# Sustainability

**Colleen Grace Donofrio** 

VP, Environment & Sustainability





# Focusing on Sustainability Internally & Externally Through our Operations and Products

### **ECOSERVICES**

### **Spent Sulfuric Acid Regeneration**

- · Recycles 1.5M tons of spent acid each year
- · Provides steam to reduce carbon footprint
- Processes for heat, steam, and electricity generation could power ~11,000 homes per year

#### **Treatment Services (TS)**

· Accepts customers high heat value waste

#### **Virgin Acid Production**

· Supports electrification end uses

### **Catalyst Activation**

· Supports renewable diesel production



R&D Investment in Sustainability 2015: 60% 2022: 83%

### Advanced Silicas & Supports - Alpha™

- Adsorb contaminants in produced water from oil and gas production
- · Carbon capture
- · Immobilize enzymes for bio-catalysis
- Capture and recover metals from waste streams

### Zeolites - Opal™

- · Decrease energy intensity of plastics recycling
- Support sustainable aviation fuel (SAF) production
- Foster NOx emissions abatement for diesel vehicles



**Inorganic Solutions** 





Inaugural Ecovyst Environmental Initiative Award for the Most Impactful Climate Change Reduction Project



2021-2022 Baton Rouge furnace optimization project: Addition of temperature and oxygen controls to **reduce natural gas consumption** 



Automation driven optimizations in natural gas usage exceeded our target by over 20% in the first year



Deployed at another Baton Rouge furnace and the Dominguez furnace



Plans for the remaining Ecoservices acid plants by 2028

# External Sustainability though Products: R&D Collaborations & Innovative Products Drive Sustainability

### Demand Stemming from Customers and the Environment

 Decarbonization requires transitioning to cleaner fuels

### **Zeolites Meet the Demand**

- Improve fuel properties to meet regulatorily-set fuel specifications
  - Contribute to meeting US challenges and proposed EU mandates

Our Zeolites and Catalysts for SAF and Renewable Diesel production are used at **over 15 customer locations** with **more than 30 additional customer projects** in the pipeline





### Award-Winning Sustainability Program



### 2022 EcoVadis Gold Sustainability Rating

Achievements in environmental, labor & human rights, ethics and sustainable procurement

2022 Gold Rating
Top 3% in our peer group



### 2022 American Chemistry Council Certificates of Excellence

Certificates of Excellence & Achievement

Recognition of safety, culture, and results

Excellence 7 U.S. Sites

Achievement 2 U.S. Sites



### 2022-2023 Transportation Product Stewardship & Safe Handling

Daily commitment to safety beyond our facility borders & a testament to Ecovyst's safety culture

BNSF Product Stewardship Canadian National Safe Handling Union Pacific Pinnacle Safety Award 9,222 Incident-free Shipments in 2022 >99.9%

### Our Sustainable Program Aligns With Recognized Standards

Sustainability Accounting Standards Board (SASB) Global Reporting Initiative (GRI) Standards

UN Sustainable Development Goals (SDGs)



# Innovating for a Sustainable Future

2025 2030 Implement a network-wide **FUEL USAGE** 

**Sustainability Goals** 



natural gas optimization plan

Achieve ~10% reduction in natural gas usage or obtain equivalent offsets

Reduction of ~66,000 mt CO<sub>2</sub>

**POWER USAGE** 



Achieve 65-70% of electricity usage from on-site generation and/or renewable energy by EOY

Achieve 75-80% of electricity usage from on-site generation and/or renewable energy

**Emissions Equivalent of** ~16,000 Cars

**HEALTH, SAFETY & ENVIRONMENT** 



Achieve Perfect Days within each business segment of ≥ 92% Achieve Perfect Days within each business segment of ≥ 95%

COMMUNITY **ENGAGEMENT** 



Standardize tracking of all community engagement activities & permit all employees to take up to 8 hrs/yr paid volunteer leave

Target 1,800 hours of volunteer time per year



# Ecoservices Overview

George L. Vann, Jr

President, Ecoservices





# Established Leadership Position in Essential and Growing End Uses

#1 Sup

Supplier of Regen and Virgin Acid

Serving

6 of 10 Largest NA Refineries



ompetitive dvantages



Long-term viability of US refining customer base and demand growth for alkylate



High barriers to-entry



High switching costs





# Diverse, Industry-Leading Business Units

01

### **REGENERATION SERVICES**

- Regeneration services for Refinery Alkylation Units
- · Chemical spent regeneration
- Industry leader
- 35% expansion of Gulf Coast capacity since 2016

VIRGIN SULFURIC ACID & SULFUR PRODUCTS

- North American leading producer (virgin acid)
- Oleum
- Electrolyte grades
- Dilute Acid
  - Sulfur Co-Products

INDUSTRIAL

**ECOSERVICES** 

### TREATMENT SERVICES

- · Converts waste into energy
- Hazardous/Non-Hazardous
- · Primarily Gulf Coast

4

ecoVyst

### **CATALYST ACTIVATION**

- Leading Ex-Situ Catalyst Activation provider
- Hydro-processing/Renewable fuels
- Additional services include air stabilization and cracked feed tolerance

03

## Network Agility Provides Competitive Advantage

Service provider model designed to drive higher margins







# UNRIVALED SUPPLY INFRASTRUCTURE

Managing end to end supply chain & customer inventories

Production redundancy in key refining locations enables the highest degree of reliability



# FAVORABLE CUSTOMER POSITIONS

Long-term contracts with cost pass-through

Typically, majority share of supply for customers

Take-or-pay and capacity reservation fees



Operational Excellence and Enhanced Reliability Expected to increase Operational Efficiency >10% by 2028

# Strategic Initiatives for Organic Growth



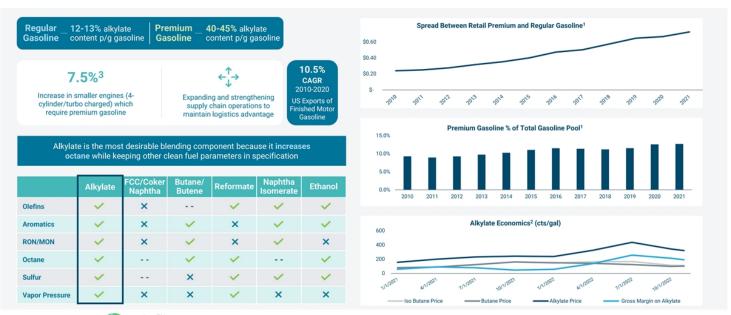
Automation of Sites to Improve Operating Efficiency Expected capacity increase >70kt by 2028, with improved on-stream time



Expansion of Catalyst Activation Production Capability Expected to double catalyst activation capacity by 2027



## Tightening Regulations Driving Global Alkylate Demand





2. Bloomber

## Regeneration Services Mirrors Industrial Gas Business Model

#### **Sulfuric Acid**

A catalyst used in the production of Alkylate, a high-value, gasoline-blending component



#### **How We Win**

Reliability improves on-stream time delivering >10% volume increase

Expansion of logistics capability enable capture of customer's additional volume

Capital plan to upgrade major equipment, increasing operational efficiency

#### **Growth Drivers**

Pricing increases

Opportunities for spot business based on constrained assets at other suppliers

Additional volume based on customers' expansions

#### Strategic Initiatives Impact



Excellence and Enhanced Reliability



Automation

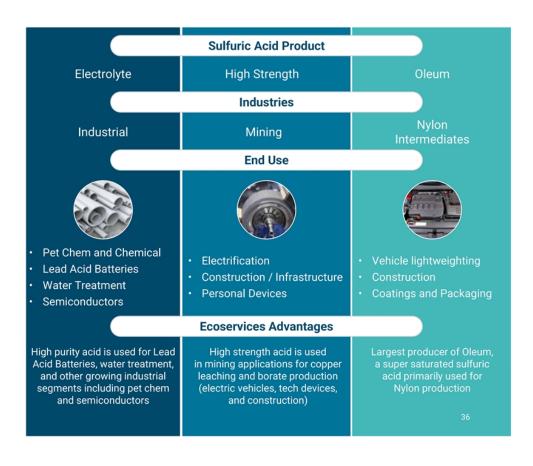
#### **Growth Through**



Price & Customer Expansions



### Virgin Sulfuric Acid Serves Growing, Diverse Industries





## Virgin Sulfuric Acid Business Grows with Industrial End Use





#### **How We Win**

Additional volume with increased on-stream time

Better operational efficiency with reliability and automation initiatives

Expand logistics capacity and infrastructure Loading Racks | Tanks | Etc.

#### **Growth Drivers**

Demand growth for copper, borates and lithium

GDP growth in other segments Nylon | Chlor-alkali | Water Treatment | Ethanol | Batteries

GDP growth in petrochemical/chemical segments

#### Strategic Initiatives Impact



Operational Excellence and Enhanced Reliability



Automatio

**Growth Through** 



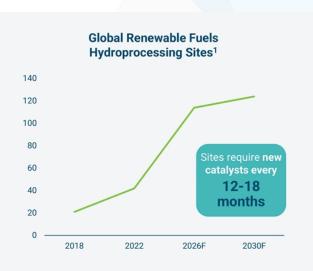
Volume & Price



3/

## Catalyst Activation Serves Growing Renewable Segment







# Catalyst Activation Expanding in High-Growth Segment Fuels Performance

#### **How We Win**

Expansion of reactor capacity to meet customer demand

Reliability improves on-stream time delivering >10% increased volume on existing assets

Gain new business as more refineries look to outsource catalyst activation

#### **Growth Drivers**

Increasing demand for catalysts for renewable fuels

Continued outsourcing of catalyst activation

Expand customer base to end users and gain new customers

#### Strategic Initiatives Impact



Operational Excellence and Enhanced Reliability



Automation



Expansion

#### **Growth Through**



Volume & Price



# Treatment Services is the Go-To Solution for Chemical Waste Management

Donofito



**Benefits** 

2 Capability to dispose of hard-to-handle materials

Repurposes hazardous waste that otherwise could go to deep well injection



Revenue growth of >50% last several years



Forecasted growth continues of more than 10% over next five years

#### **Demand Drivers**

Consumer spending Housing | Construction Packaging | Hygiene

Preferable to other waste treatment drivers

# Growth Opportunities

Only permitted NA producer that processes hazardous wastes, providing for additional opportunities

Growing chemical production in Gulf Coast will increase waste generated Strategic Initiatives Impact



Operational
Excellence and
Enhanced Reliability



Automatio

**Growth Through** 



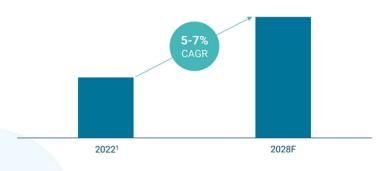
Volume & Price



### Primed to Deliver Attractive Growth

Margin expansion driven by price and volume increases

#### **Projected Adjusted EBITDA Growth**





1. See Appendix for Reconciliations of non-GAAP measures



#### **Sales Growth**

accelerate volume growth through increased on-stream time and additional logistics capability



#### **Operating Leverage**

maintain strategic pricing and contract structure, leveraging operational excellence initiative



#### **Strong Visibility**

into necessary capital requirements to capitalize on growth opportunities



**Strong Performance** Across Business Segments



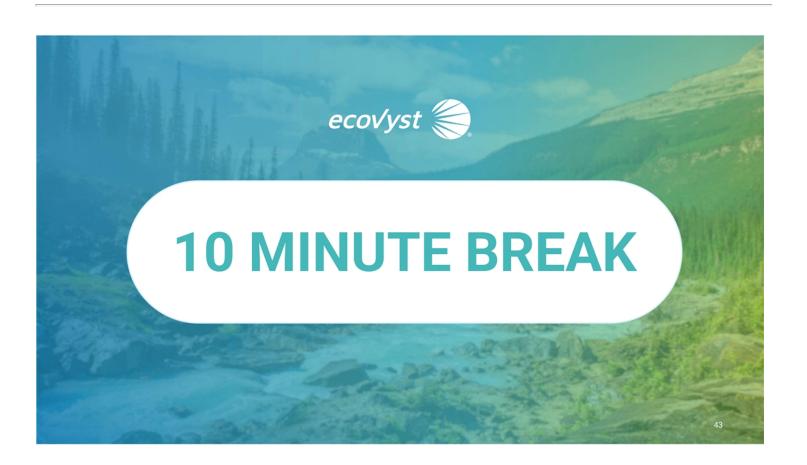


**Continued Growth** in Markets Served



Strategic Initiatives Enable Our Growth Plan





# Advanced Materials & Catalysts

**Paul Whittleston** 

**President, Advanced Materials & Catalysts** 





### Ecovyst Advanced Materials & Catalysts – Leveraging The Unique Properties Of Zeolites & Silicas

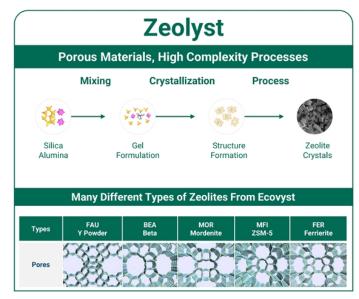






# Deep Materials Science & Complex Manufacturing Process Know-How







### New Name Reflects Our Competencies, Heritage And Future

#### **Our Core Competencies**

Deep R&D expertise in Silica and Zeolite materials

Analytical processing technologies

Rapidly develop and and scale new technologies

Our core ability to modify materials using science to create products with significantly different functionality & higher value is differentiating

#### Our Legacy & Heart

35-year+ partnership for Zeolitebased catalysts

> 40+ years Silica catalysts & additives for Polyethylene

Flexible manufacturing assets

We create value for our customers through the development and sale of catalysts and supports that enable catalyzed reactions Our Competency & Future



Our Legacy & Heart



Advanced Materials & Catalysts



## Launching New Product Branding Alongside New Name

Business Unit	<b>Advanced Materials &amp; Catalysts</b>							
Sub-Business Unit	Advanced Silicas	Zeolyst International®						
Brand	Alpha <sup>™</sup> Alpha <sup>™</sup> carries the concept of leadership and being first	Opal <sup>TM</sup> Opal <sup>TM</sup> carries the concepts of specialty products, purity and high value						
Application & Product Focus	Alpha Polyethylene Catalysts  Alpha Polyethylene Supports  Alpha Anti-blocking Silicas  Alpha Supports  Alpha Functionalized Silicas	Sustainable Fuels  Opal ◇ Advanced Recycling  Opal ◇ Emission Control  Opal ◇ Custom Zeolites  Hydrocracking & MACH  ZEOLYST A BOMATICS YOU Parlormance Advances  Oparis™, Zataris™, & ATA						



# Customized Solutions From Lab To Commercial With Speed & Quality

#### **Customer Need**

Ecovyst and customer team define problem & potential solution

#### Commercialization (Tons)

Commercialization plants mirror pilot assets, ensuring consistent quality and rapid scalability



#### **Laboratory Scale (Grams)**

Bench scale equipment used to develop concept and prepare first solutions

#### **Pilot Plant (Kilograms)**

Stage Gate review confirms business case before rapidly introducing pilot scale production



Depth in Advanced Material Science capabilities



Same team develops, scales, and technically supports launch



Global collaboration between R&D centers

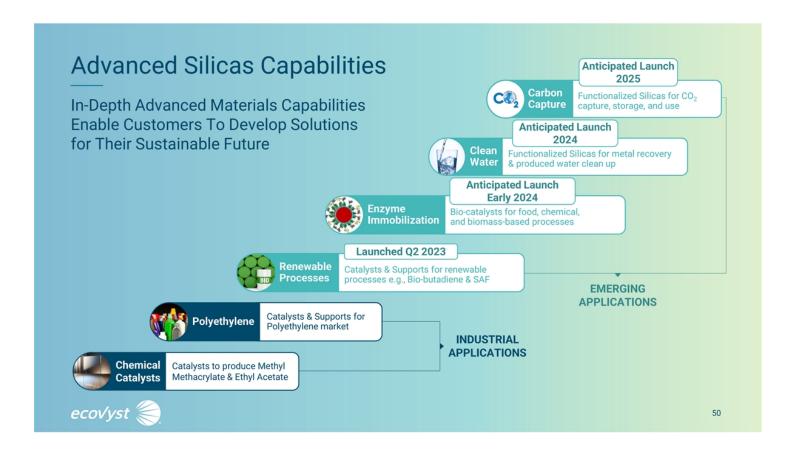


Highly experienced & qualified team, with 11 PhD, 9 MS & 14 BSc, averaging 16 years with Ecovyst

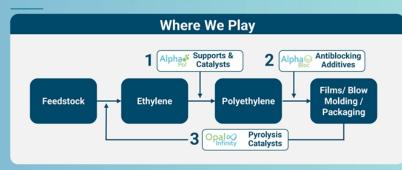


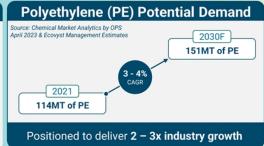
Pilot facilities colocated with R&D team enabling rapid scale up





## Customized Solutions Addressing Polyethylene Market Needs, Targeting 2-3x Market Growth Rate





#### **Key Drivers**

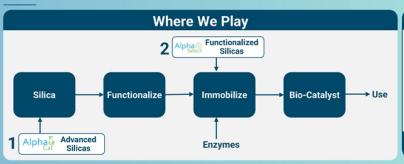
- · Increasing global use of Polyethylene
- · Food storage & preservation needs
- · Light weighting of materials

#### **How We Win**

- Partner with key technology licensors & producers
- Develop new products in partnership with customers
- · Reliable, quality, and cost-effective supply



### Advanced Silicas Are Enabling Enzyme Immobilization Technology To Rapidly Commercialize





#### **Key Drivers**

- · Increasing demand for cost-effective food
- Emerging technology to modify & test enzymes
- Energy intensity, HSE profile & ease-of-use

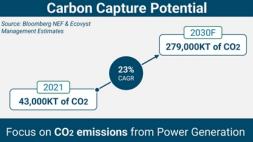
#### **How We Win**

- · Execute current project pipeline, then broaden
- Rapid R&D & qualification meeting customer needs
- · Scale commercial & technical expertise



# Advanced Silicas Are Enabling Efficient Capture Of CO<sub>2</sub> Produced From Power Generation





#### **Key Drivers**

- · Global regulatory and social initiatives to lower CO<sub>2</sub>
- High value of CO<sub>2</sub> credits
- Recovered CO<sub>2</sub> for downstream chemical production

#### **How We Win**

- · Execute current project pipeline, then broaden
- · Identify technology leaders and develop new systems
- Scale commercial & technical team





### Zeolyst Advanced Material Science Is A Key Enabler For Global Decarbonization Efforts





#### **Key Drivers**

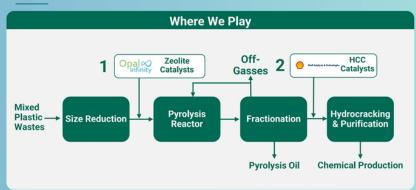
- Regulatory requirements promoting decarbonization
- · Commitment of airlines to decarbonize fuels
- · Food vs. fuel pressures enabling new technologies

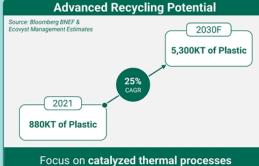
#### **How We Win**

- · Established partnerships with technology licensors
- · Staying ahead through innovation
- · Propriety manufacturing know-how



# Zeolyst Technologies Are Improving The Cost-Effectiveness To Recycle Plastic Waste





#### **Key Drivers**

- · Global regulatory and social initiatives
- · Inefficiencies of existing processes
- Need & willingness of companies to innovate

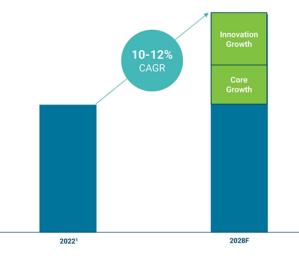
#### **How We Win**

- Partner with processors with access to capital and plastic collection infrastructure
- Utilize existing technology and manufacturing footprint
- Scale commercial & technical teams



# Strong Team Developed And Positive Momentum Built, With A Relentless Focus on Execution







ecoVyst

1. See Appendix for Reconciliations of non-GAAP measures

#### **Key Takeaways**



Organic growth in Polyethylene & Custom Catalysts continues to be robust



Our entry into renewable fuels is successful. We will profitably grow as capacity is added



Our deep Advanced Materials know-how enables expansion into emerging applications

- Sustainable Aviation Fuel
- Advanced Recycling
- · Carbon Capture
- Enzyme Immobilization

Our innovation capabilities, close partnerships with customers & unique production capabilities are key differentiators that will enable our continued success

# Financial Outlook

Mike Feehan





### Premier Financial Profile



#### Strong business fundamentals

supported by global demand trends, leading supply positions, integrated supply network, favorable long-term contract structures, and innovative track



High growth potential from favorable secular demand trends and compounding organic growth initiatives



Resilient financial profile with mid-30% average business segment margins from 2018-2022



Strong cash flow generation driven by healthy business profitability

2018-2022

6% Adjusted EBITDA CAGR<sup>1,4</sup> 71%

Average Cash Conversion<sup>1,2</sup>

29%

Average Capital Intensity<sup>1,3</sup>

31%

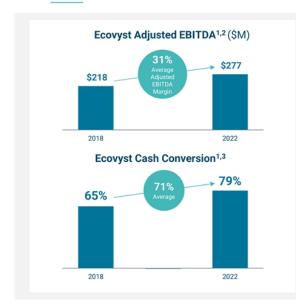
Average Adjusted EBITDA Margin<sup>1,4</sup>

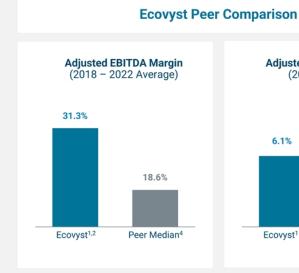


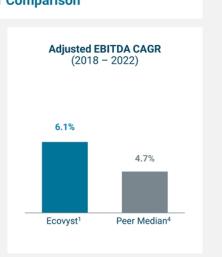


- See Appendix for Reconciliations of non-GAAP measures
   Cash Conversion % = (Adjusted EBITDA Capex)/(Adjusted EBITDA)
   Capital Intensity = Capital expenditures as percentage of Adjusted EBITDA
   Adjusted EBITDA calculation includes proportionate 50% share of sales from the Zeolyst Joint Venture
   ROANTA = Return on Average Net Tangible Assets

## Strong Track Record of Performance vs. Peers









- See Appendix for Reconciliations of non-GAAP measures
   Adjusted EBITDA margin calculation includes 50% share of sales from the Zeolyst Joint Venture
   Cash Conversion % = (Adjusted EBITDA-Capex)/(Adjusted EBITDA). See appendix for reconciliation of non-GAAP measures
   Represents the median companies in the S&P 1500 Specialty Chemicals Index as reported by FactSet

### Strong Cash Generation Driving Investment for Growth & **Enhanced Shareholder Value**



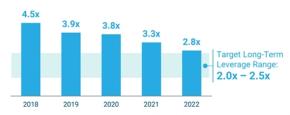
#### **Cash Generation Driven By**

- Growth in Adjusted **EBITDA**
- Historically modest capital spending



**Net Leverage Excluding Impact** 

#### Net Debt Leverage Ratio<sup>2</sup>



#### Deleveraging

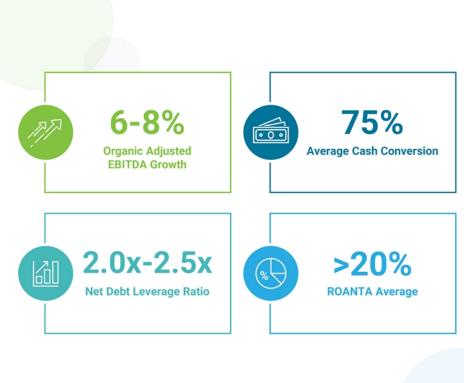
- No significant debt maturities until 2028
- Current cost of debt ~5%



- Cash Conversion % = (Adjusted EBITDA-Capex)/(Adjusted EBITDA). See appendix for reconciliation of non-GAAP measures
   Net Debt Leverage Ratio = (Total debt cash and cash equivalents) / TTM Adjusted EBITDA. See appendix for reconciliation of non-GAAP measures
   See Appendix for Reconciliations of non-GAAP measures
   4. Q3 2022 Share Repurchases = \$73.7M; Q3 2023 Share Repurchases \$215.4M







## Capital Allocation Strategy Focused on Maximizing Shareholder Value





#### **Capital Allocation Priorities**

**Cash Flow** from Operations

Maintenance Capex

**Expansion Growth Capex** 

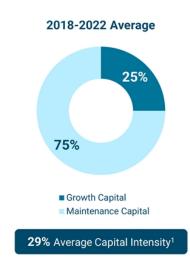
**Operational Improvement** 

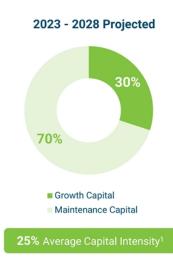
**Leverage Reduction** 

**Bolt-on** Acquisitions

**Share Repurchases** 

### Focusing Capital Investments to Drive Growth





- Increase focus on growth capital, while maintaining appropriate levels for maintenance capital
  - -~50% increase in average growth capital
  - -~30% increase in average maintenance capital
- Emphasize high growth projects in associated growth markets
- Favorable expected financial investment returns



1. Capital Intensity % = Capital expenditures as a percentage of Adjusted EBITDA. See Appendix for Reconciliations of non-GAAP meaures

### Key Initiatives to Drive Organic Growth

Preferred technology and increasing sustainable product offerings projected to drive growth through 2028

#### **ECOSERVICES**

Expansion of catalyst activation for hydroprocessing and renewable fuel production

Debottlenecking virgin sulfuric acid production to meet demand in mining and industrials

Favorable pricing benefit from inflation through long-term contract structure

#### **Advanced Materials & Catalysts**

Grow at above market rates in polyethylene through know-how and customer partnerships

Continue growth of product offerings in renewable fuels driven by global decarbonization

Expand commercial technology of advanced recycling for plastic pyrolysis

Drive chemical catalyst growth in sustainable processes for new novel catalysts, such as enzyme development

Advance functionalized silicas to capture demand from electrification and carbon capture



# Opportunistic Bolt-on M&A Strategy

#### **Advanced Materials & Catalysts**

New catalyst technology platforms for building on or adjacent to Zeolite and Silica capabilities

New services associated with efficient catalyst lifecycle

#### **Ecoservices**

Expansion of virgin acid capabilities

Geographic reach

Expansion into adjacent services and technologies





Strategic Criteria

Exposure to emerging trends and areas of growth in sustainable markets



Adjacent or complementary technologies or services



Differentiated intellectual property and application know-how/expertise



Cultural fit/High customer intimacy



Financial Criteria

Return on investment > cost of capital



Sustainable growth and margin profile



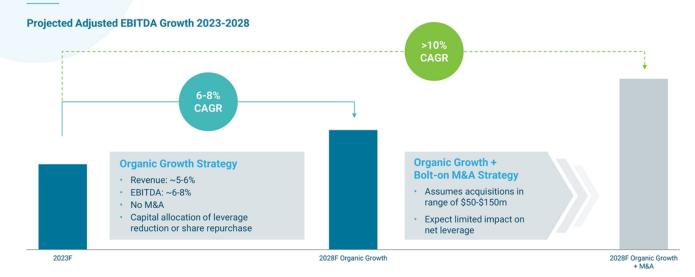
Synergy opportunities



Financially accretive



## Measuring Our Success





## Creating Lasting Shareholder Value



Durable
Business
Model with
Differentiated
Competitive
Advantages



Favorable
Industry Trends
Driving Demand
for Products and
Services



Broad-Based
Growth Across
All Segments,
Building a More
Evolved
Business Mix



Strong Cash Generation Funding a Balanced Capital Allocation Strategy







#### Annual Segment Sales, Adjusted EBITDA and Margins

	ттм					
(\$ in millions, except %)	September 30, 2023					
Sales:						
Ecoservices	603.3	702.5	500.5	401.9	447.1	455.6
Advanced Silica	97.8	117.7	110.7	94.0	85.7	72.1
Total sales	701.1	820.2	611.2	495-9	532.8	527.7
Zeolyst Joint Venture sales	143.7	132.6	131.3	128.6	170.3	156.7
Adjusted EBITDA <sup>2</sup> :						
Ecoservices	206.0	227.8	177.7	157.2	175.6	176.5
Advanced Materials & Catalysts	75.1	78.0	88.0	74-5	107.8	81.1
Unallocated corporate expenses	(21.8)	(29.0)	(38.1)	(39.1)	(43.3)	(39.4)
Total Adjusted EBITDA	259.3	276.8	227.6	192.6	240.1	218.2
Adjusted EBITDA Margin¹:						
Ecoservices	34.1%	32.4%	35.5%	39.1%	39-3%	38.7%
Advanced Materials & Catalysts3	31.1%	31.2%	36.4%	33.5%	42.1%	35.4%
Total Adjusted EBITDA Margin <sup>1,2</sup>	30.7%	29.0%	30.7%	30.8%	34.1%	31.9%



<sup>2.</sup> Totals include corporate costs



Adjusted EBITDA includes proportionate 50% share of sales from the Zeolyst Joint Venture

#### Reconciliation of Net Income to Adjusted EBITDA

	TTM				Year Ended			
(s in millions, except %)	September 30, 2023	September 30, 2022	September 30,	December 31, 2022	December 31, 2021	December 31, 2020	December 31, 2019	December 31, 2018
Reconciliation of net income to Adjusted EBITDA								
Net income	62.7	56.2	40.0	69.8	1.8	54-3	31.1	5-3
Provision (benefit) for income taxes	20.5	29.0	(42.0)	24.9	12.1	(52.1)	12.3	8.0
Interest expense, net	41.2	35-7	37-7	37.2	37.0	50.4	66.9	72.3
Depreciation and amortization	82.9	78.4	80.5	79.2	79-7	76.9	74.8	72.2
EBITDA	207.3	199.3	116.2	211.1	130.6	129.5	185.1	157.8
Joint venture depreciation, amortization and interest(a)	14.1	16.2	15.0	16.0	15.6	14.7	14.7	12.6
Amortization of investment in affiliate step-up(b)	6.4	6.4	6.5	6.4	6.5	6.6	7.5	6.6
Debt extinguishment costs	_	_	35-4	_	26.9	25.0	3.4	7.8
Net loss on asset disposals(c)	5-7	2.4	8.1	3.6	5-7	4-7	4.6	10.4
Foreign currency exchange (gain) loss(d)	(1.1)	2.0	0.1	1.4	4-7	(5.3)	1.2	13.9
LIFO expense (benefit)(e)	2.3	0.1	(2.5)	(0.2)	(1.9)	(5.3)	6.5	0.8
Transaction and other related costs <sup>(f)</sup>	2.9	7-3	1.3	7.0	2.0	1.1	0.2	0.5
Equity-based compensation	15.8	26.4	26.7	20.6	31.8	17.2	13.3	16.9
Restructuring, integration and business optimization expenses <sup>(g)</sup>	6.0	8.6	3.1	11.6	3.0	2.0	2.6	6.8
Gain on contract termination(h)	_	_	_	_	_	_	_	(20.6)
Other <sup>(i)</sup>	(0.1)	2.0	0.4	(0.7)	2.7	2.4	1.0	4.7
Adjusted EBITDA <sup>a</sup>	259.3	270.7	210.3	276.8	227.6	192.6	240.1	218.2



Rounding discrepancies may arise when rounding results from dollars (in thousands) to dollars (in millions

<sup>1.</sup> For additional information with respect to each adjustment, see appendix "Descriptions for reconciliations of Non-GAAP financial measure

#### Descriptions for reconciliation of Non-GAAP financial measures

- a. We use Adjusted EBITDA as a performance measure to evaluate our financial results. Because our Catalyst Technologies segment includes our 50% interest in the Zeolyst Joint Venture, we include an adjustment for our 50% proportionate share of depreciation, amortization and interest expense of the Zeolyst Joint Venture.
- b. Represents the amortization of the fair value adjustments associated with the equity affiliate investment in the Zeolyst Joint Venture as a result of the combination of the businesses of PQ Holdings Inc. and Eco Services Operations LLC in May 2016. We determined the fair value of the equity affiliate investment and the fair value step-up was then attributed to the underlying assets of the Zeolyst Joint Venture. Amortization is primarily related to the fair value adjustments associated with intangible assets, including customer relationships and technical know-how.
- c. When asset disposals occur, we remove the impact of net gain/loss of the disposed asset because such impact primarily reflects the non-cash write-off of long-lived assets no longer in use.
- d. Reflects the exclusion of the foreign currency transaction gains and losses in the statements of income related to the non-permanent intercompany debt denominated in local currency translated to U.S. dollars.
- e. Represents non-cash adjustments to the Company's LIFO reserves for certain inventories in the U.S. that are valued using the LIFO method, effectively reflecting the results as if these inventories were valued using the FIFO method, which we believe provides a means of comparison to other companies that may not use the same basis of accounting for inventories.
- f. Relates to certain transaction costs, including debt financing, due diligence and other costs related to transactions that are completed, pending or abandoned, that we believe are not representative of our ongoing business operations.
- g. Includes the impact of restructuring, integration and business optimization expenses, which are incremental costs that are not representative of our ongoing business operations.
- h. Represents a non-cash gain on the write-off of the remaining liability under a contractual supply arrangement. As part of Eco Services LLC's acquisition of substantially all of the assets of Solvay USA Inc.'s sulfuric acid refining services business unit on December 1, 2014, we recognized a liability as part of business combination accounting related to our obligation to serve a customer under a pre-existing unfavorable supply agreement. In December 2018, the customer who was party to the agreement closed its facility, and as a result, we were relieved from our obligation to continue to supply the customer who was party to the agreement closed its facility, and as a result, we were relieved from our obligation to continue to supply the customer on the below market contract. Because the fair value of the unfavorable contract liability was recognized as part of the application of business combination accounting, and since write-off of the remaining liability was non-cash in nature, we believe this gain is a special item that is not representative of our ongoing business operations.
- i. Other consists of adjustments for items that are not core to our ongoing business operations. These adjustments include environmental remediation and other legal costs, expenses for capital and franchise taxes, and defined benefit pension and postretirement plan (benefits) costs, for which our obligations are under plans that are frozen. Also included in this amount are adjustments to eliminate the benefit realized in cost of goods sold of the allocation of a portion of the contract manufacturing payments under the five-year agreement with the buyer of the Performance Chemicals business to the financing obligation under the failed sale-aseback. Included in this line-item are rounding discrepancies that may arise from rounding from dollars (in thousands) to dollars (in millions).



#### Cash Conversion & Net Debt Leverage Ratio

#### **Cash Conversion**

	Year Ended December 31,						
(s in millions, except %)							
Adjusted EBITDA	276.8	227.6	192.6	240.1	218.2		
Less: Capex <sup>1</sup>	59-5	66.4	54-5	70.3	77.0		
Cash Conversion	217.5	161.2	138.1	169.9	141.3		
Cash Conversion %2	79%	71%	72%	71%	65%		
Capital Intensity %3	21.5%	29.2%	28.3%	29.3%	35.3%		

#### Net Debt Leverage Ratio

		Year I	Ended Decemi	TTM				
(\$ in millions, except %)								
Total debt <sup>4</sup>	886.4	895.5	1,426.4	1,932.1	2,148.4	879.8	8.888	897.7
Less: Cash and cash equivalents4	110.9	140.9	137.2	73.9	59.8	38.3	121.4	104.8
Net debt	775-5	754.6	1,289.2	1,858.2	2,088.6	841.5	767.4	792.9
Adjusted EBITDA - Continuing Operations	276.8	227.6	192.6	240.1	218.2	259.3	270.7	210.3
Adjusted EBITDA - Discontinued Operations	_	_	142.4	231.0	243.4	_	_	_
Net Debt Leverage Ratio	2.8x	3.3×	3.8x	3.9x	4.5X	3.2X	2.8x	3.8x





Capex for cash conversion includes 50% of spend for the Zeolyst Joint Venture
 Cash Conversion % - (Adjusted EBITDA-Capex)()(Adjusted EBITDA)
 Capital Intensity % - (Capex/Adjusted EBITDA)
 Capex-2020 Net Debt and Cash & Cash Equivalents includes discontinued operations

#### **ROANTA**

#### ROANTA<sup>1</sup>

	Year Ended December 31,							
(\$ in millions, except %)								
Adjusted EBITDA	276.8	227.6	192.6	240.1	218.2			
Less: Depreciation	74-7	74.6	73-4	69.5	66.7			
EBITA	202.3	153.0	119.2	170.7	151.6			
Tax Rate	25%	25%	25%	25%	25%			
Numerator	151.7	114.8	89.4	128.0	113.7			
Property, Plant & Equipment, Net	642.8	661.7	663.1	690.2	683.5			
Working Capital								
Accounts Receivable	117.8	116.0	62.7	93.0	84.4			
Inventory	113.5	112.1	101.9	114.8	84.2			
Accounts Payable	55-3	67.3	51.3	51.0	48.8			
Net Working Capital	176.0	160.8	113.3	156.8	119.8			
Denominator	820.7	799-5	811.7	825.2				
ROANTA	18.5%	14.4%	11.0%	15.5%				



