



PQ Corporation

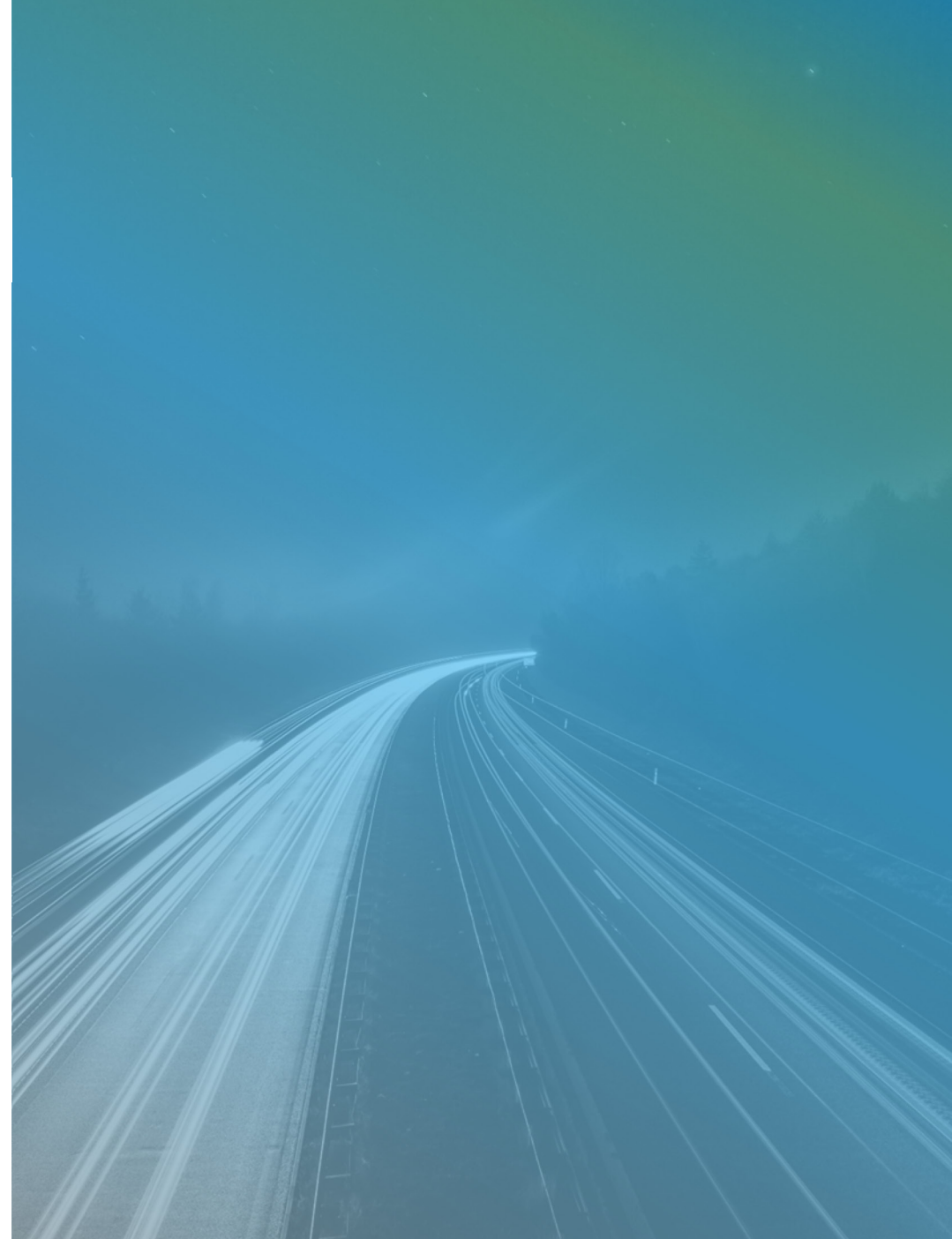
INVESTOR DAY | APRIL 8, 2021 | 10am EST





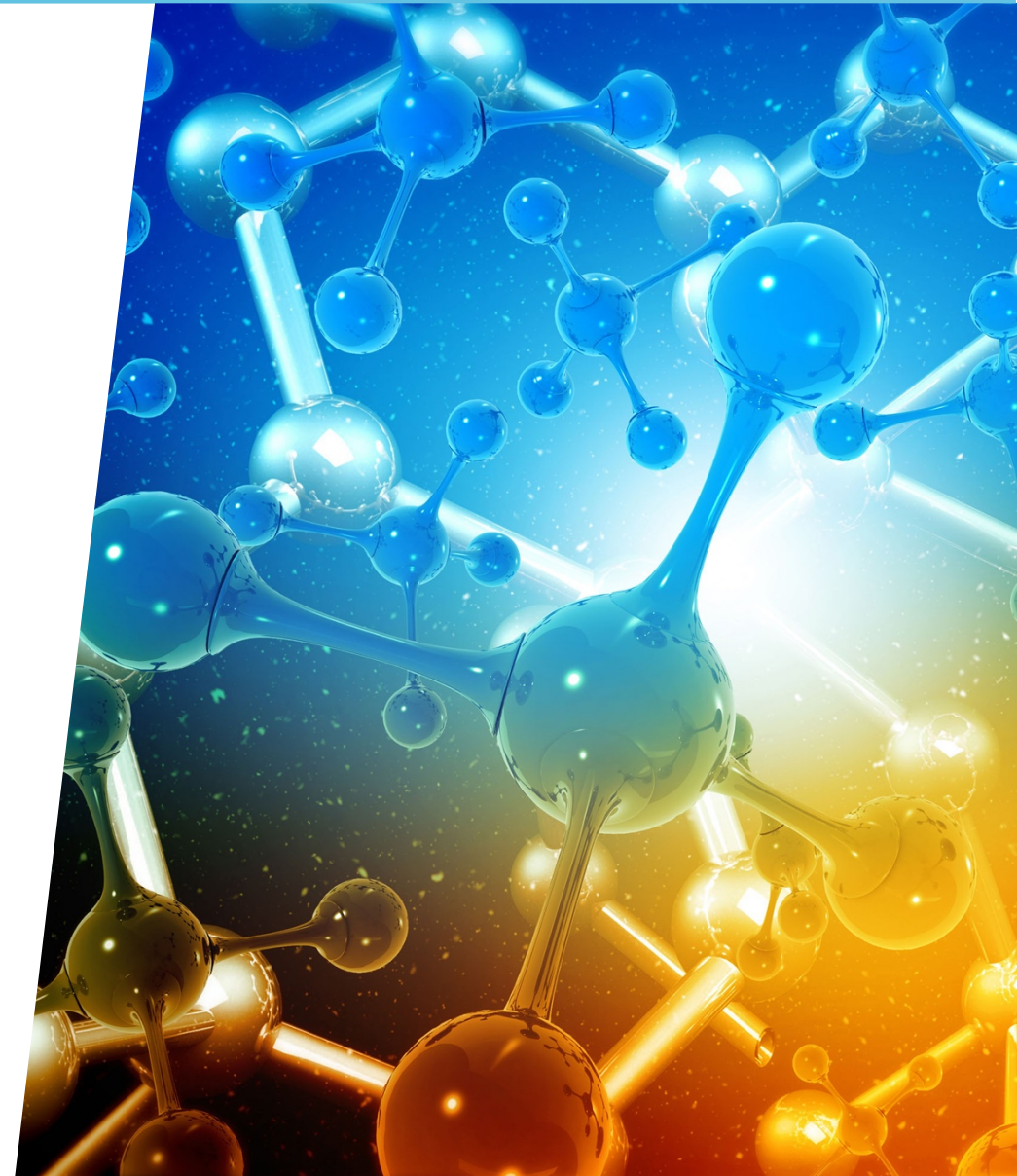
Welcome

Nahla Azmy
Vice President, Investor Relations and
Financial Communications



Agenda for Target PQ Virtual Investor Conference

10:00-10:01	.....●.....	Welcome & Legal Nahla Azmy – VP, Investor Relations and Financial Communications
10:01-10:20	.....●.....	Opening Remarks and Strategy Overview Belgacem Chariag – Chairman, President and Chief Executive Officer
10:20-10:30	.....●.....	Refining Services Overview Kurt Bitting – President, Refining Services
10:30-10:45	.....●.....	Catalysts Overview Tom Schneberger – President, Catalyst Technologies
10:45-10:55	.....●.....	10 min Break
10:55- 11:05	.....●.....	Innovation Overview Dr. Ray Kolberg – VP, Technology and Business Development
11:05-11:12	.....●.....	Financial Performance & Goals Overview Mike Crews – EVP and Chief Financial Officer Mike Feehan – VP, Finance and Treasurer
11:12-11:15	.....●.....	Closing Remarks Belgacem Chariag – Chairman, President and Chief Executive Officer
11:15-11:20	.....●.....	5 min Break
11:20	.....●.....	Q&A



Legal Disclaimer

Continuing Operations

Financial results are on a continuing operations basis, which excludes the Performance Materials business from all quarterly and yearly results presented, unless otherwise indicated. Financial results are also presented to exclude the Performance Chemicals business, which is subject to a pending sale which the Company previously announced on March 1, 2021, but financial results do not reflect pro forma financial information presented pursuant to Article 11 of Regulation S-X.

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,” “intends,” “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, statements regarding the sale of the Performance Chemicals business segment, including the intended uses of proceeds therefrom, our future results of operations, financial condition, liquidity, prospects, growth, strategies, capital allocation programs, product and service offerings and end use demand trends, and 2025 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, our ability to close on the sale of the Performance Chemicals business segment on our anticipated timeline, or at all, our ability to successfully integrate Chem32, regional, national or global political, economic, business, competitive, market and regulatory conditions, including the ongoing COVID-19 pandemic, tariffs, and trade disputes, currency exchange rates and other factors, including those described in the sections titled “Risk Factors” and “Management 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 presentation is reviewed and any discussions that follow speaks only as of the date on which it is made. Factors or events that could cause our actual results to differ may emerge from time to time, and it is not possible for us to predict all of them. We undertake no obligation to update any forward-looking statement, whether as a result of new information, future developments or otherwise, except as may be required by applicable law.

Non-GAAP Financial Measures

This presentation includes certain non-GAAP financial measures, including adjusted EBITDA, adjusted EBITDA margin, cash conversion, total ecovyst sales, ecovyst sales, total ecovyst segment adjusted EBITDA, total ecovyst adjusted EBITDA, total ecovyst adjusted EBITDA margin, free cash flow and net debt and target total sales, 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.

The Company is not able to provide a reconciliation of the Company's forward-looking non-GAAP financial information 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 ascertain 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. The Company is also not able to provide a reconciliation of total ecovyst segment adjusted EBITDA to ecovyst net income (loss) without unreasonable effort due to certain GAAP measures that are not currently calculable.

Zeolyst Joint Venture

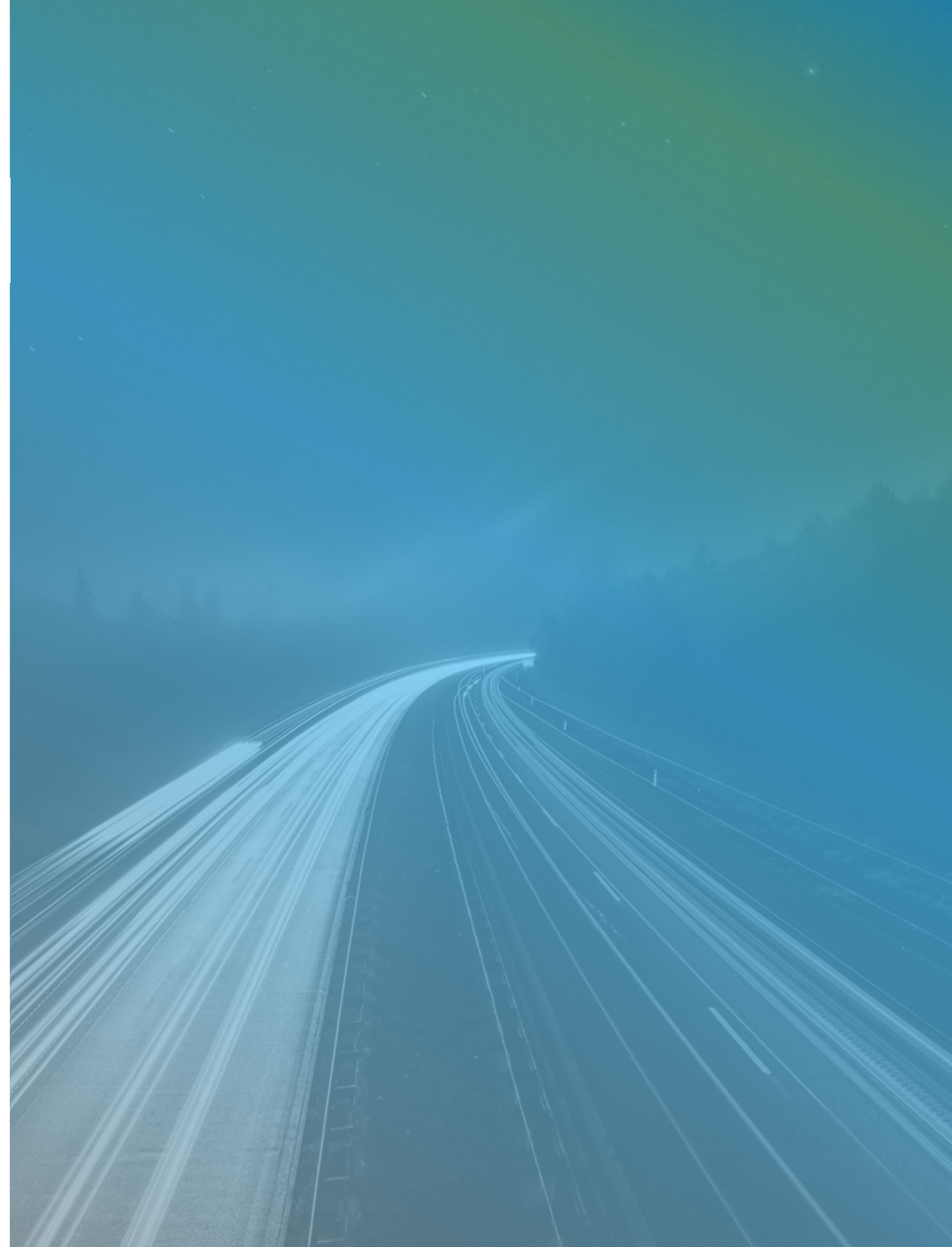
Zeolyst International and Zeolyst C.V. (our 50% owned joint ventures that we refer to collectively as our “Zeolyst Joint Venture”) are accounted for as an equity method investment in accordance with GAAP. The presentation of our Zeolyst Joint Venture’s sales in this presentation represents 50% of the sales of our Zeolyst Joint Venture. We do not record sales by our Zeolyst Joint Venture as revenue and such sales are not consolidated within our results of operations. However, our Adjusted EBITDA reflects our share of the earnings of our Zeolyst Joint Venture that have been recorded as equity in net income from affiliated companies in our consolidated statements of income for such periods and includes Zeolyst Joint Venture adjustments on a proportionate basis based on our 50% ownership interest. Accordingly, our Adjusted EBITDA margins are calculated including 50% of the sales of our Zeolyst Joint Venture for the relevant periods in the denominator.



Opening Remarks & Strategy Overview

Belgacem Chariag

Chairman, President, and Chief Executive Officer



Transition Nearly Complete

Simpler + Stronger

2019

Evaluation & Positioning



- Delayed organization
- Improved commercial and operational performance; reduced capital intensity
- Divested non-core assets

2020–2021

Transformation



- Divested Performance Materials & Performance Chemicals*
- Acquired niche catalyst activation business to create a platform for growth

FUTURE

ecovyst



Innovative catalyst products and services

ecovyst Is...

**Simpler
& Stronger**

Leaner

Nimbler

Innovative

**Sustainability
Focused**

**Growing &
Greening**

ecovyst Business Proposition...

1	Proven operational and commercial execution	
2	High single-digit top-line growth plus additional inorganic growth opportunities with strong and sustainable margins rivaling best-in-class companies	
3	Strong cash flows and high revenue visibility from customer collaborations, specified products and long-term contracts	
4	Focused on developing catalysts, solutions and services for improving environmental sustainability and enabling transition	
5	Innovative and proprietary technologies and processes driving disruption in the catalyst business	

We Are a Focused Pure-Play



YOUR CATALYST FOR POSITIVE CHANGE

Our technologies support **eco**logical health. We are well positioned and confident in **V**ying for, and propelling customers' expansion and growth. We are a catal**yst** for positive change

Note: PQ Group Holdings Inc. intends to change its name to Ecovyst Inc. in connection with the completion of the pending sale of its Performance Chemicals business, which it previously announced on March 1, 2021.



Ecoservices



Catalyst Technologies

Ecoservices

We partner with our customers to help them meet increasingly stringent standards for clean fuels, vehicle fuel economy, and lower emissions

North American Leader in Sulfuric Acid Recycling and Related Services



Regeneration Services



Specialty Grade High Purity Virgin Sulfuric Acid



Offsite Catalyst and Related Processing Services

Business Represents¹

64%
Of total ecovyst sales^{2,3,5}

68%
Of total ecovyst Segment Adjusted EBITDA^{3,5}

39%
Average Adjusted EBITDA margins last 4 years^{4,5}

Business Advantages

✓
Deep expertise

✓
Growing customer demand

✓
Focused innovation on sustainability

✓
Secure revenue streams

1 Represents the Refining Services segment in historical financial statements
2 Includes 50% portion of the Zeolyst Joint Venture
3 2020
4 2017-2020
5 See GAAP reconciliations.

Catalyst Technologies

We partner with our customers to help improve the performance, durability and environmental profile of their products. Our products are required to meet the evolving standards of cleaner fuels, reduced waste and emission control.

Leader in Tailored Solutions for Specialty and Emission Control Catalysts



Polyethylene



Fuels & Emission Control



Niche Custom Catalysts

Business Represents¹

36%
Of total
ecovyst
sales^{2,3,5}

32%
Of total ecovyst
Segment Adjusted
EBITDA^{3,5}

38%
Average Adjusted
EBITDA margins last 4
years^{4,5}

Business Advantages

✓
Collaborative
customer
partnerships

✓
Focused
innovation on
sustainability

✓
Positioned to
grow faster
than market

✓
Expected
margin
expansion

ecovyst Businesses Are Complementary and Well Positioned to Enable Change



Catalyst Technologies

Ecoservices

Coordinated Sales & R&D Strategies

Growth in
Emission Control
offerings

Accelerated
growth in polymer
catalysts &
introduction of
catalysts to
support circular
economy

Catalysts for
renewable fuels &
materials

Growth in custom
catalysts for novel
chemical
processes

Growth in clean
fuels, fuel
additives &
catalyst related
services

Expansion of
Treatment
Services offering

Expansion in virgin
acid applications
to support secular
demand growth

Change Is Accelerating in the Industries We Serve, and Our Customers Must Adapt



Increased environmental and sustainability focus

- Manufacturing processes are expected to make measurable improvement in their environmental profile



Transportation and energy products are changing

- Existing fuels must get cleaner and more efficient to support installed fleet

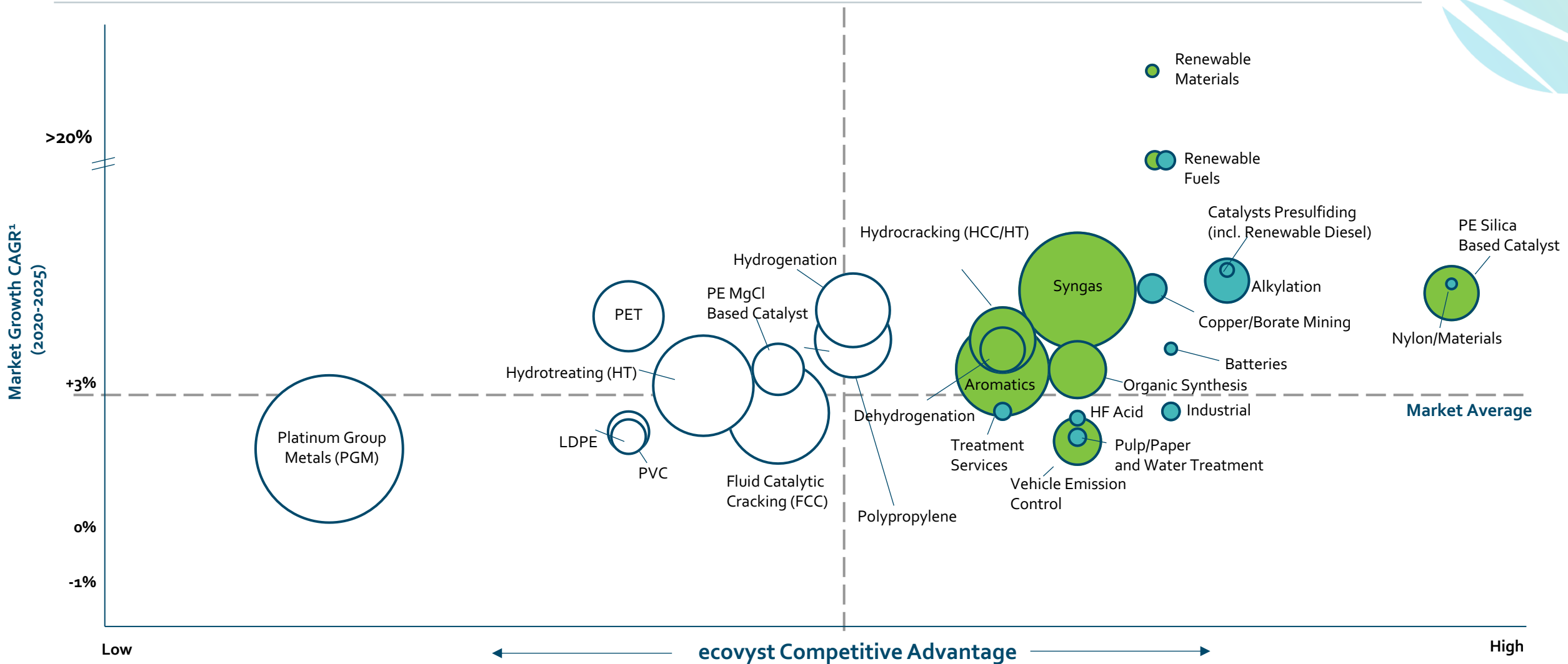


Growing need for environmentally friendly polymers and light-weighting of products

- Increasing investment in plastics recycling

We partner with our customers in novel, chemistry-based technologies to address the increasing demand for high performing, sustainable products

ecovyst Selects High-Growth, High-Margin Segments



Portfolio Serving Long-Term Sustainable Trends

- Very low environmental footprint compared to published peer data
- Gaining momentum in our journey to achieve sustainability improvements



Recyclability



Efficient
Energy Usage



Emissions



Innovation

ECOSERVICES



Largest North American recycler of spent sulfuric acid, avoiding 1.5 million tons per year of landfill or deep well disposal



One of the largest consumers of refinery spent sulfur, converting for other uses



Converts by-product steam into 17MW/h of electricity used internally, with excess exported to grid



World class low SO₂ emissions

CATALYST TECHNOLOGIES



Removes sulfur from diesel fuel for land and marine transportation



Provides active component for > 90% reduction of NO_x emissions from diesel engines



Provides technology to support chemical recycling of polyethylene



80% of 2020 R&D investment in product innovation linked to sustainability

CLEAN ENERGY TRANSITION: Evolving Fuels, Emission Reductions & Energy Storage

CIRCULAR PLASTICS ECONOMY: Lightweighting, Strengthening & Recycling

We Are Committed and Acting on Key Sustainability Goals



	Greenhouse Gas (GHG) Emissions	Waste Management	Product Sustainability	Certifications
2025	Complete decarbonization plans;-15% GHG Intensity (mtCO2e-/mt)	-40% hazardous waste (mt);-15% non-recyclable waste (mt)	90% of R&D innovation investment linked to sustainability	ISO 50001 energy plans implemented
2030	-25% GHG Intensity (mtCO2e-/mt)	-25% non-recyclable waste (mt)	95% of R&D innovation investment linked to sustainability	100% ISO 50001 Certified

The above is only a sample from our comprehensive program

Innovation Continues to Be Integral to Future Growth



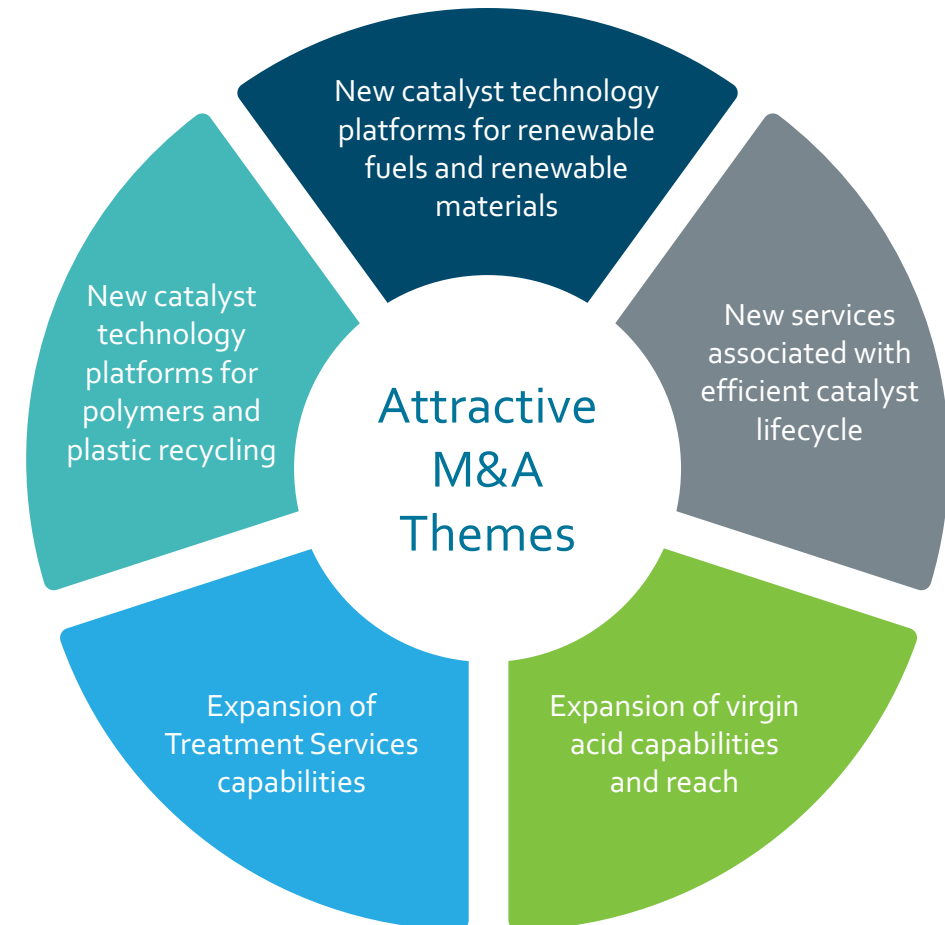
Growth through
balanced innovation



Sustainability
Focused

~80%
of innovation pipeline is
focused on customer
sustainability solutions

Inorganic Growth Is Integral to the Strategy



ecovyst – a Growing Pure-Play Catalyst and Services Company

Leading in Sustainable Products and Tailored Customer Solutions

Simpler + **STRONGER** ^{S²}

Target : 2025

> \$ 1.0 B total Sales* with Inorganic Contribution
High 30's Adjusted EBITDA margins
Cash Conversion > 80%

Future Goals: 2020-2025

High Single-digit Organic Growth
Mid-to-high 30's Average Adjusted EBITDA margins
Cash Conversion > 75%

Demonstrated

Organic Growth
Sustainable margins
Value fit

Growing + **GREENING**

^{G²}

ecovyst Team Here Today



Belgacem Chariag

Chairman, President, and
Chief Executive Officer



Kurt Bitting

President
Ecoservices



Tom Schneberger

President
Catalyst Technologies



Dr. Ray Kolberg

Vice President of
Technology & Business
Development



Mike Crews

Executive Vice President
and Chief Financial Officer



Mike Feehan

Vice President of Finance
and Treasurer*

*Vice President and Chief Financial
Officer, ecovyst as of September 2021



Ecoservices Overview

Kurt Bitting
President, Ecoservices

Key Takeaways

We have the ability to deliver profitable growth across diverse end uses

We have superior process technology and logistics capabilities

We are enabling sustainable solutions

Ecoservices Product Lines

1 Regeneration

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

2 Virgin Sulfuric Acid & Sulfur Products

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

4 Chem32

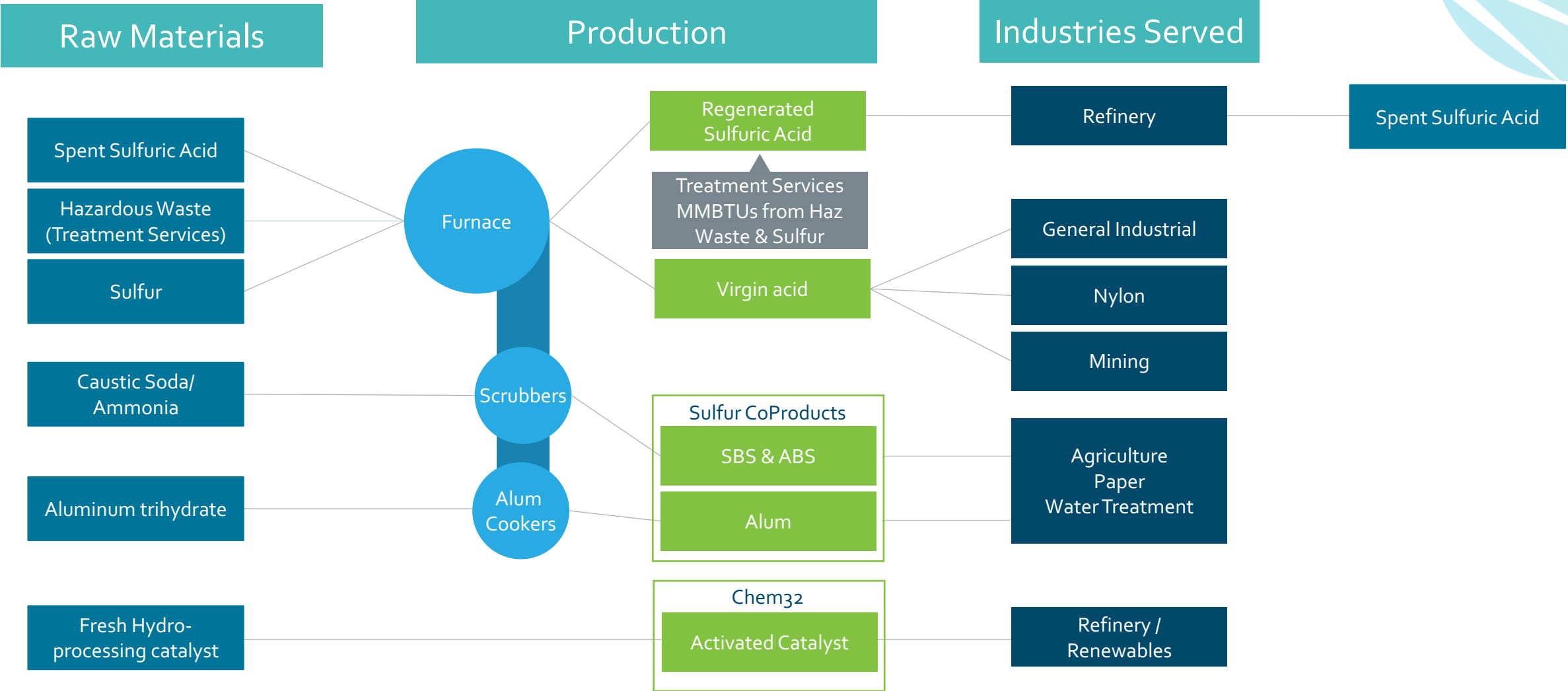
- Leading Ex-Situ Catalyst Activation Provider
- Hydro-processing
- International sales
- Renewable fuels

3 Treatment Services

- Converts waste into energy
- Hazardous / Non-Hazardous
- Primary Gulf Coast

Ecoservices
Business Units

Where Do We Play? Markets and End Uses Served



Business Snapshot

Refining Services

Leader

in providing sulfuric acid recycling for North American Alkylate production

Leader

in North American producer of merchant virgin sulfuric acid

Key Products

Regeneration for Fuel Catalyst Recycling

~53%

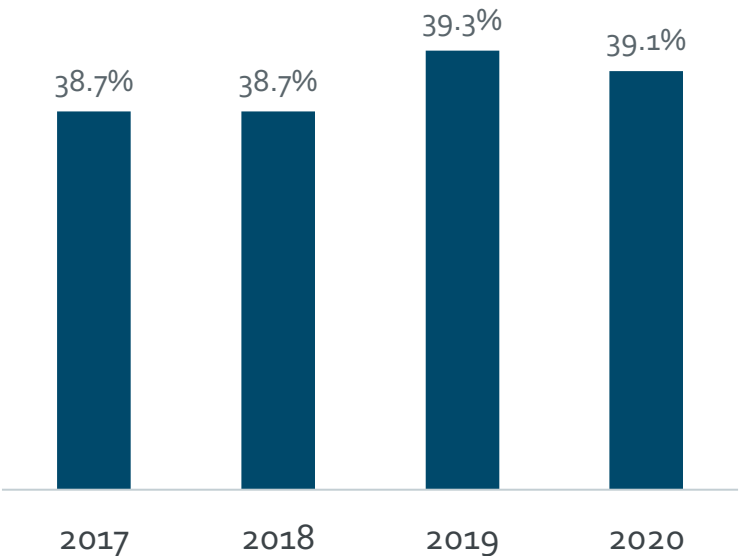
Of 2020 total sales

Virgin Sulfuric Acid for Automotive, Electronics & Industrial

~30%

Of 2020 total sales

Sustainable Adjusted EBITDA Margins



Key Stats¹

50-55%
supplier of US regeneration demand

~90%
cost pass-through on quarterly basis

~95%
of supply under 5-10 year take-or-pay contracts

~58%
Chem 32 sales international²

1. 2020
2. Closed on Chem 32 in March 2021

ecovyst Advantages

✓
Deep expertise

✓
Growing customer demand

✓
Focused innovation on sustainability

✓
Secure revenue streams

Where We Operate

Ecoservices:

Supply Infrastructure

Leading supplier with key competitive positions in the Gulf and California

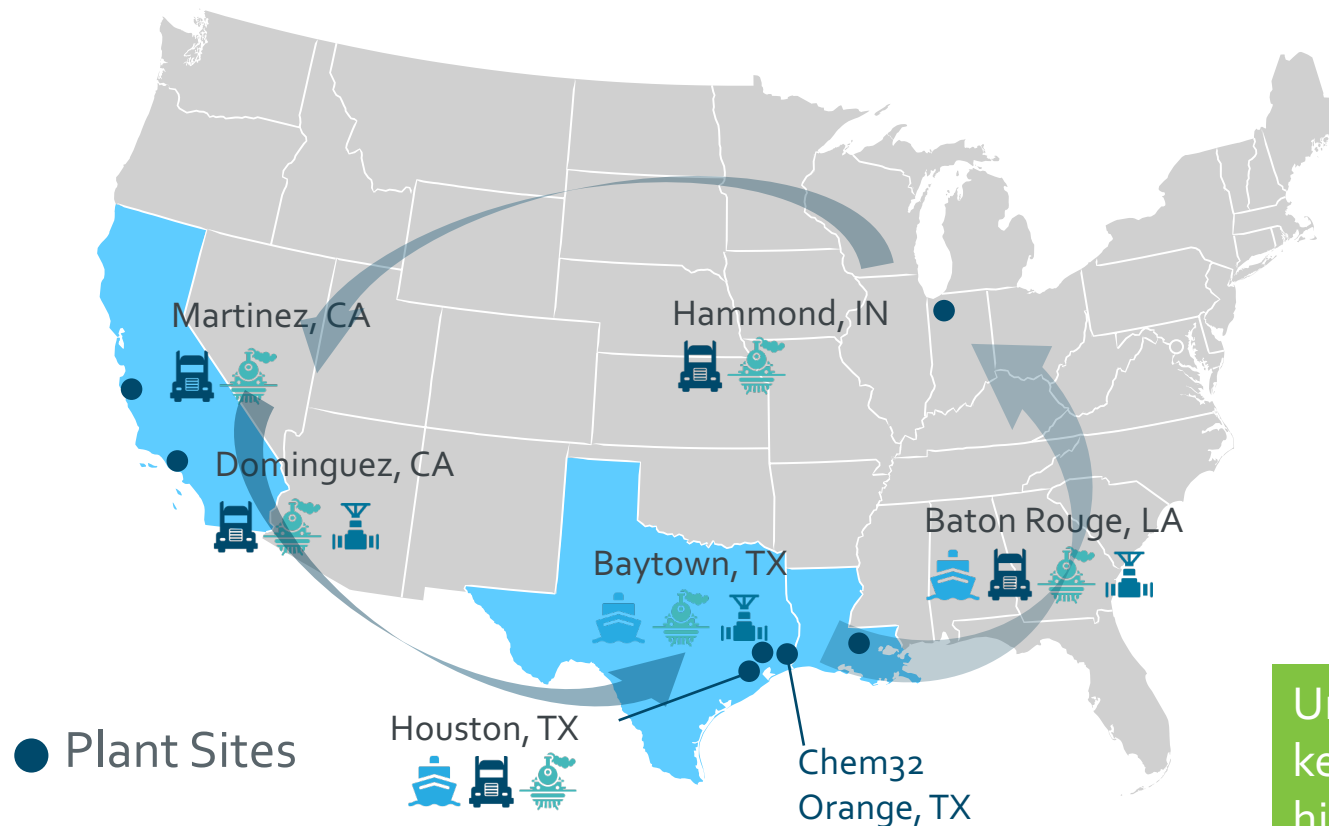
~40

Refineries using Sulfuric Acid Alkylation

>65%

Of alky capacity located in West Coast and Gulf Coast regions

Source: 2020 AFPM



Supply Chain & Customer Inventories Managed by Ecoservices

BARGE



33%

TRUCK



27%

RAIL



20%

PIPELINE



20%

Unrivalled production redundancy in key refining locations enables the highest degree of reliability

Virgin Sulfuric Acid Sources



Metals Smelting



- Only one strength and lowest quality
- Primarily rail shipments
- Long distance from consumers

Captive – Fertilizer



- No merchant sales
- Sulfur Derived
- Only one strength and quality
- Consume merchant Sulfuric Acid

Ecoservices

Merchant Sulfur Produced

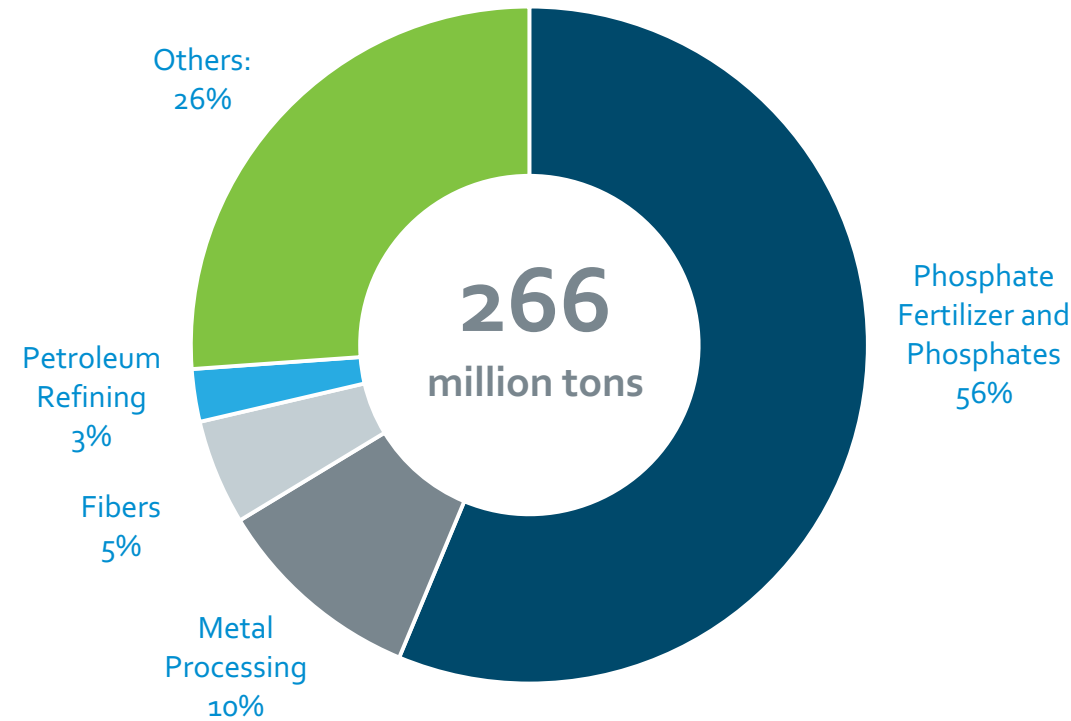


- Numerous grades
- High quality
- Most reliable

We Play in a Large Market That Supports an Important Service Across the Globe

Global Sulfuric by End Use

Differentiated Service/Advantages



Sulfuric Acid is the most widely used commodity chemical in the world



Ecoservices focuses on servicing the refinery, other metals, and fibers industries



These segments require a high degree of service, quality, and reliability



Plant locations are also ideal for serving these sectors

Sources: 2017 CRU; 2018 Essential Chemistry Market Projections

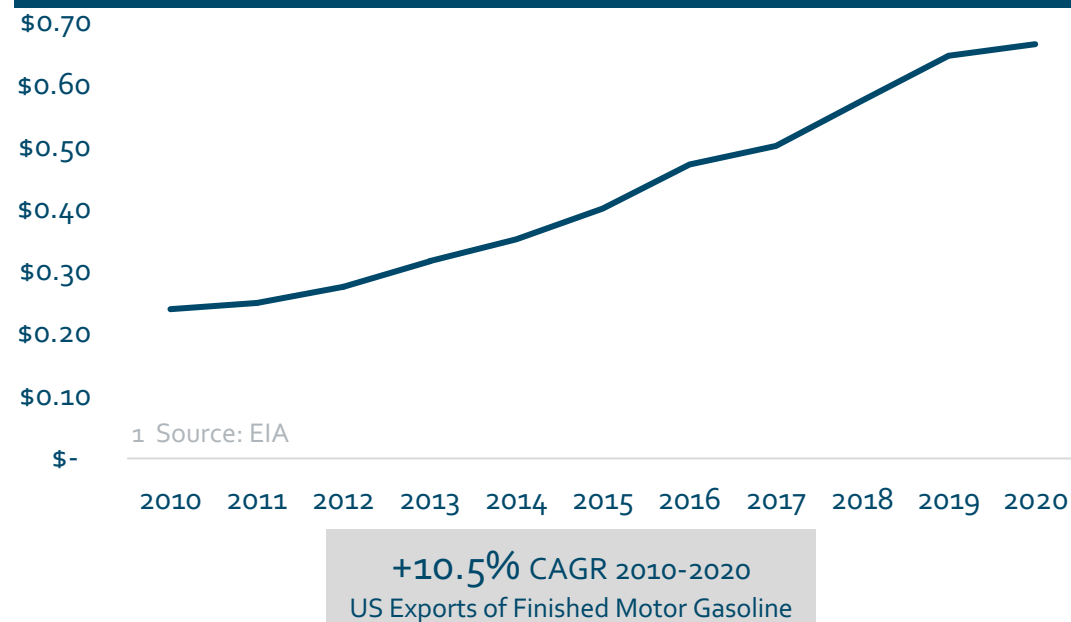
Macro Environment – What’s Going to Drive Future Trends

Tighter fuel economy and emissions regulations driving robust growth for high octanes and other transportation fuels

Alkylate is the most desirable blending component because it increases octane while keeping other clean fuel parameters in specification.

	Alkylate	FCC / Coker Naphtha	Butane/ Butene	Reformate	Naphtha Isomerate	Ethanol
Olefins	✓	✗	--	✓	✓	✓
Aromatics	✓	✗	✓	✗	✓	✓
RON/MON	✓	✗	✓	✗	✓	✗
Octane	✓	--	✓	✓	--	✓
Sulfur	✓	--	✗	✓	✓	✓
Vapor Pressure	✓	✓	✗	✓	✗	✗

Spread Between Retail Premium and Regular Gasoline¹



Sulfuric Acid
Alkylation continues
to rise due to:



Tightening gasoline
regulations

- Sulfur Standards
- Vapor Pressure



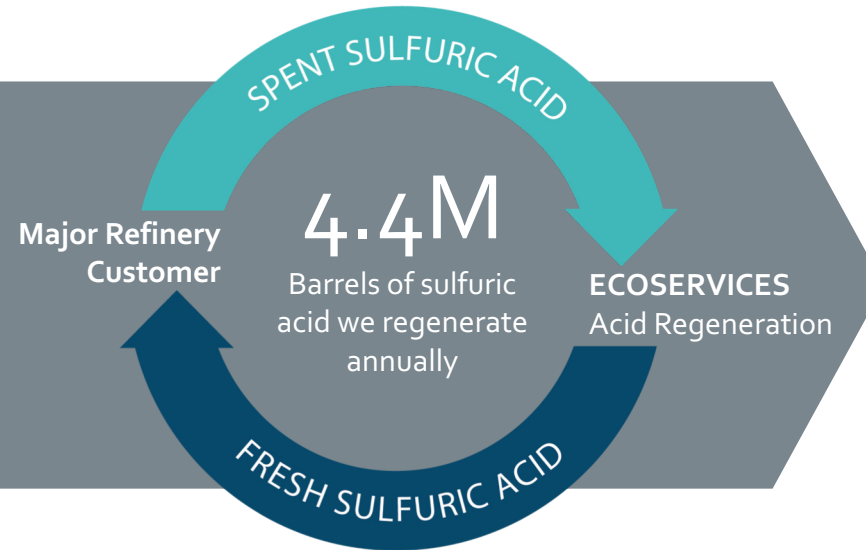
Increasing number of
turbo charged engines for
fuel economy



Growing Gulf Coast gasoline
exports encouraging more
alkylate production

Regeneration

Sulfuric Acid is a catalyst used in the production of Alkylate, a high-value, gasoline-blending component



Contract Advantages

- 100% of customer requirements
- Long-term
- Cost pass-through
- Take-or-pay and capacity reservation fees

ecovyst Advantages

- Acid regeneration industry operates at >90% utilization, incentivizing customers to contract with Ecoservices for long-term reliable service
- Debottlenecked our Gulf Coast plants regeneration capacity by 35% since 2016, meeting increasing demand
- Currently installing a logistics expansion in Houston to service a new refining customer in late 2021
- Our expansions and partnership with key refineries enable us to grow faster than the market

Virgin Acid – Differentiated by Strength, Quality and Reliability

Sulfuric Acid Product

Oleum

High Strength

Electrolyte

Segment

Nylon

Mining

Industrial

End Use

- Vehicle lightweighting
- Construction
- Coatings and Packaging



- Electrification
- Construction/Infrastructure
- Personal Devices



- Pet Chem and Chemical
- Lead Acid Batteries
- Water Treatment
- Semiconductors



ecovyst Advantages

Largest producer of Oleum, a super saturated sulfuric acid primarily used for Nylon production

High strength acid is used in mining applications for copper leaching and Borate production (electric vehicles, tech devices, and construction)

High purity acid is used for Lead Acid Batteries, water treatment, and other growing industrial segments including pet chem and semiconductors

Treatment Services – Safely Converting Hazardous Waste to Energy

Benefits

- Regional niche waste incineration
- Highly complementary to the regeneration business.
 - Provides fuel and sulfur



Demand Drivers

- Preferable to other waste treatment methods
 - Landfill
 - Deep well

Growth Opportunities

- Only NA producer that processes RCRA hazardous wastes, providing for additional opportunities
- Growing chemical production in Gulf Coast will increase waste generated

Chem32: Pre-Activation Services

Benefits



- International
- Renewable Fuels
- Leverage our refining relationships and sulfur knowhow

Demand Drivers

- Enables refineries to outsource difficult task of sulfiding
- Quicker reactor startups
- Growth in renewables

Growth Opportunities

- Strong existing relationships with producers



How We Support Our Customers Through Sustainability

Regeneration

- Recover 99% of Sulfuric Acid in the regeneration process
- Efficient transportation
 - Back Haul
 - Barge / Pipeline
- Alkylation promotes cleaner fuels

Virgin Acid

- Virgin Acid production enables lower natural gas usage and GHG emissions
- Sulfuric Acid made from by product Sulfur
- 17MWh of electricity produced with process steam
- Sulfur co-products recycled for used in water treatment and agriculture

Treatment Services

- Treatment services provides fuel source
- Avoids Deep Wells / Land Fills

Chem 32

- Activated catalysts used to remove contaminants
 - Sulfur
 - Mercury
- Renewable Fuels catalysts
- Reduces on-site HSE risks

Strong Margins With Additional Room for Improvement

Optimization Initiatives

1

Increased steam capture for additional power sales

2

Additional sulfur processing and virgin acid logistics capacity

3

Expanded treatment services capacity

4

Water treatment and consumption optimization

5

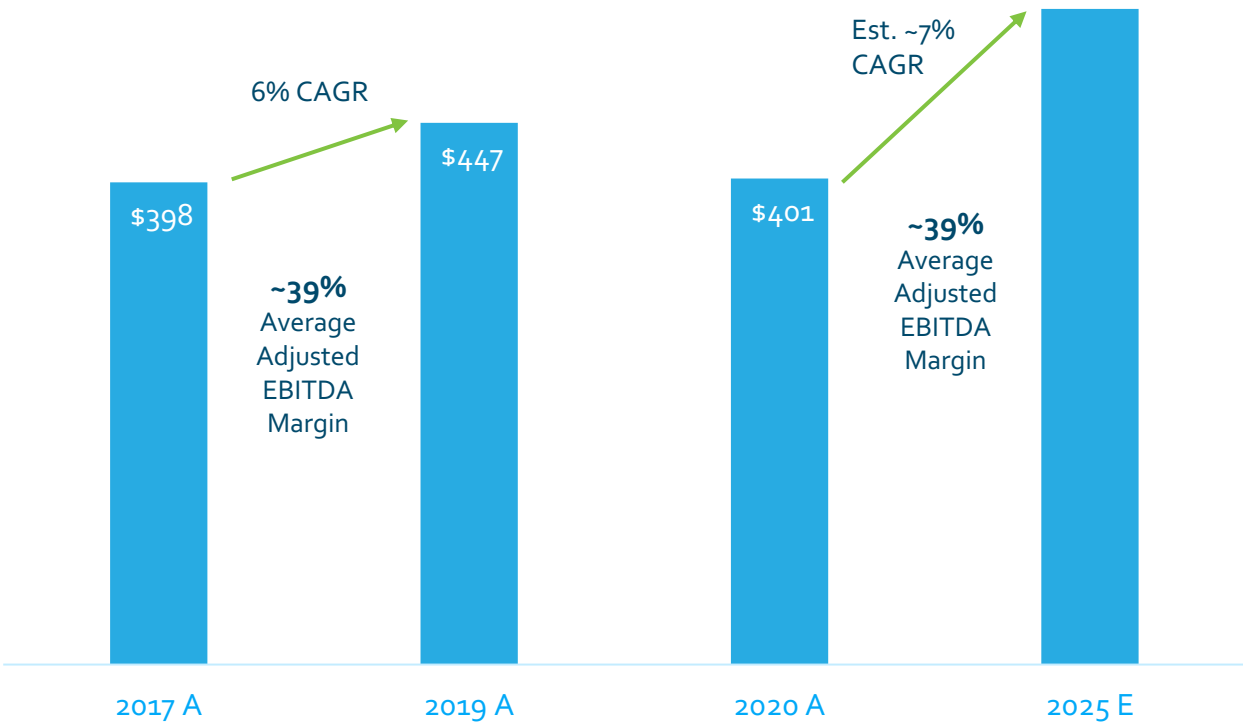
Continued improvement on variable cost consumption through asset optimization software

Organic Growth Projections

Growth Drivers

- 1 New major refinery customer 2021 (long-term contract)
- 2 Favorable alkylate fundamentals
- 3 Growing virgin acid end uses
- 4 Treatment Services debottlenecking
- 5 Chem32 growth from further outsourcing and rapidly growing renewable fuels

Organic Sales Growth Outlook



Key Takeaways

We have the ability to deliver profitable growth across diverse end uses

We have superior process technology and logistics capabilities

We are enabling sustainable solutions



Catalyst Technologies

Tom Schneberger
President, Catalyst Technologies

Key Takeaways

We provide innovative technologies in growing markets

We selectively invest where we can grow faster than the market

Customers rely on our customized offerings resulting in predictable growth and strong margins

Catalyst Technologies Business Structure

Catalyst Technologies

Silica Catalysts

(100% ownership)

- **Leading global supplier of silica catalysts and catalyst supports used to produce:**

- High density polyethylene (HDPE)
- Linear low-density polyethylene (LLDPE)
- Polyethylene anti blocking agents
- Methyl Methacrylate (MMA)

- **Custom catalyst products and supports developed for:**

- Chemical production processes
- Polymer production processes
- Renewable materials
- Metal recovery

Zeolyst International

(50% ownership with Shell Catalysts & Technologies - est. 1988)

- **Leading global supplier of synthetic specialty zeolite catalysts and supports for:**

- Hydroprocessing of traditional fuels
- Yield and cold flow improvement of traditional fuels
- Production of renewable fuels
- Emission control technologies

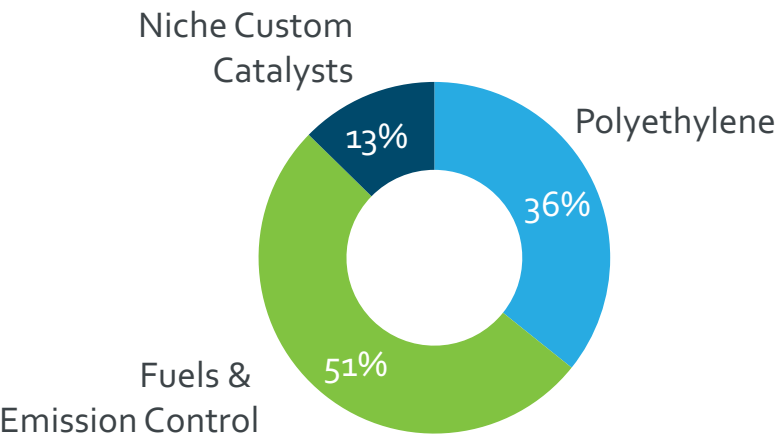
- **Custom catalyst products and supports developed for:**

- Chemical & fuel production processes
- Syngas synthesis
- Emission control
- Pyrolysis processes for polymer (plastic) recycling

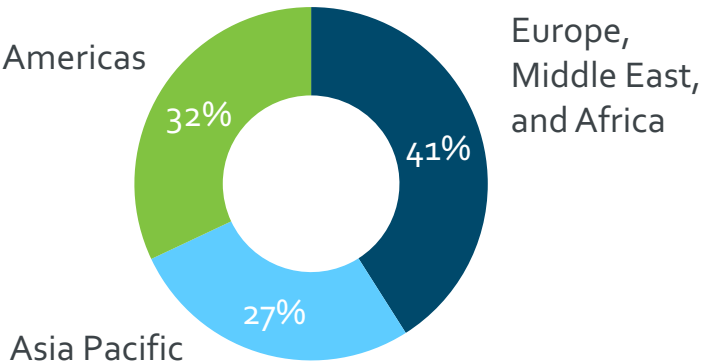
Business Snapshot – Catalyst Technologies

We partner with our customers to help improve the performance, durability and environmental profile of their products. Our products are required to meet the evolving standards of cleaner fuels, reduced waste and emission control.

Sales by End Use Segments¹



Sales by Region¹



ecovyst Advantages



Collaborative customer partnerships



Focused innovation on sustainability



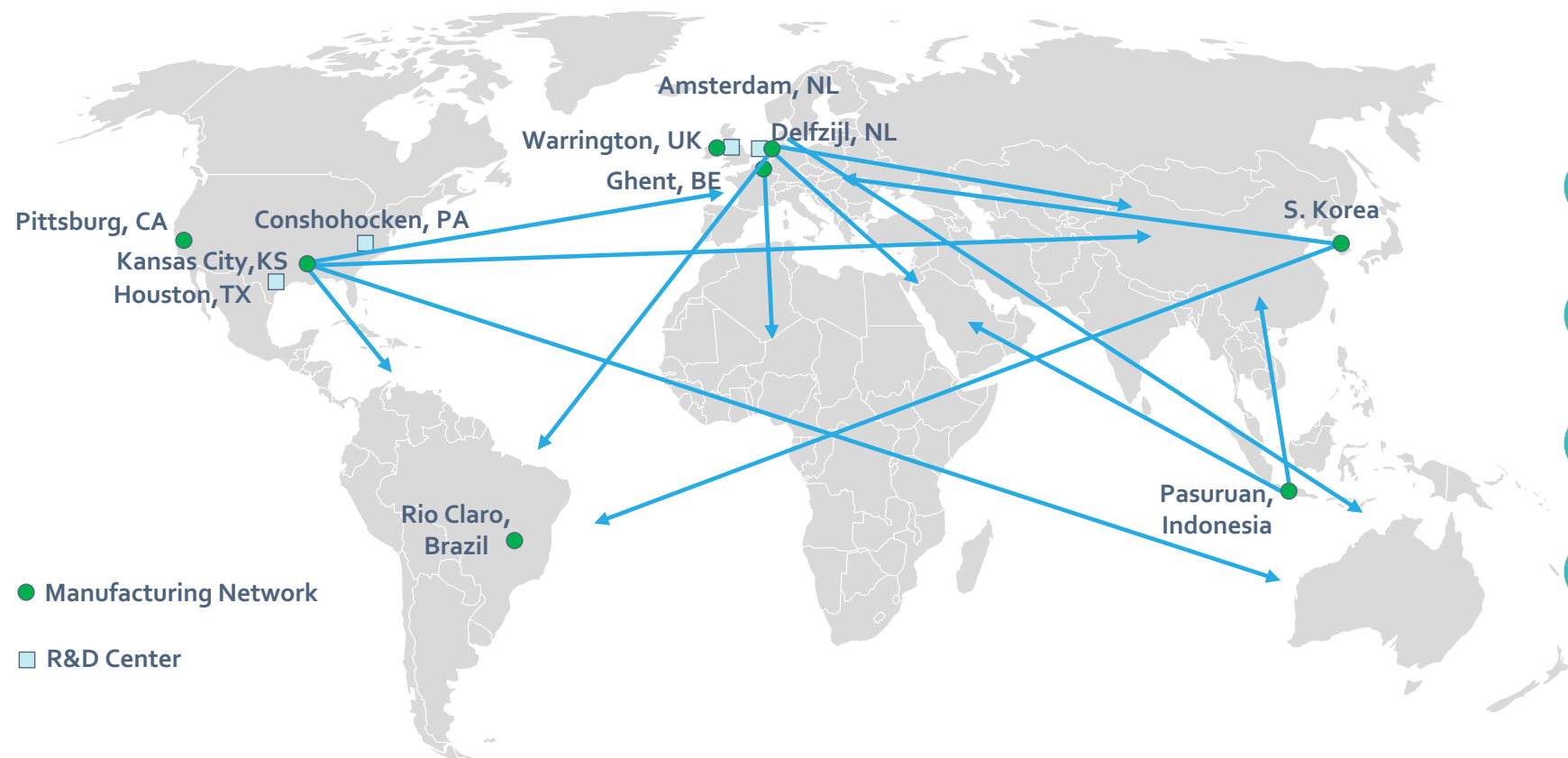
Positioned to grow faster than market



Expected margin expansion

1. As of 2020; Includes 50% portion of the ZI Joint Venture

We Innovate With Customers and Manufacture Strategically to Meet Their Global Needs



- 1 R&D and pilot plant capabilities in multiple regions
- 2 Flexible manufacturing network
- 3 Global sales force deep in catalyst technology
- 4 Product performance is monitored and improved in collaboration with customers

We Enable Our Customers to Address the Sustainability of Their Products

Polyethylene

- Strengthening and lightweighting
- Increasingly efficient production processes
- Recycling of polymers



Fuels & Emission Control

- Increasingly efficient and cleaner fuels
- Increasingly efficient production processes
- Renewable fuels

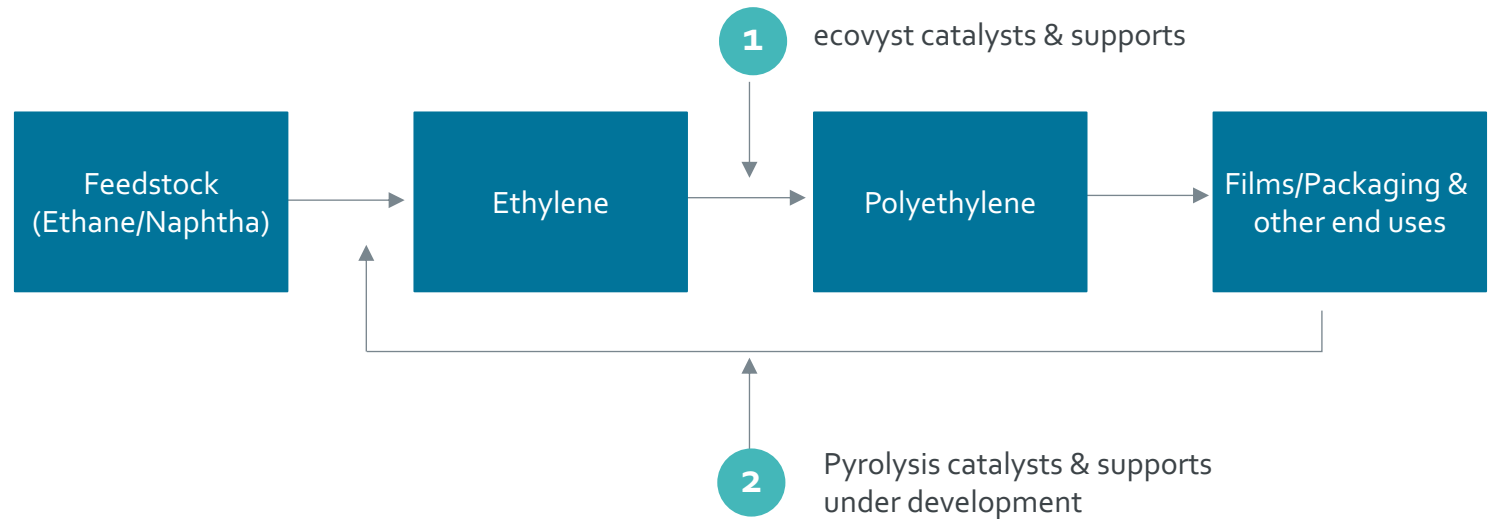


Niche Custom Catalysts

- Novel production processes with increased efficiencies
- Inherently safer and cleaner processes
- Renewable materials



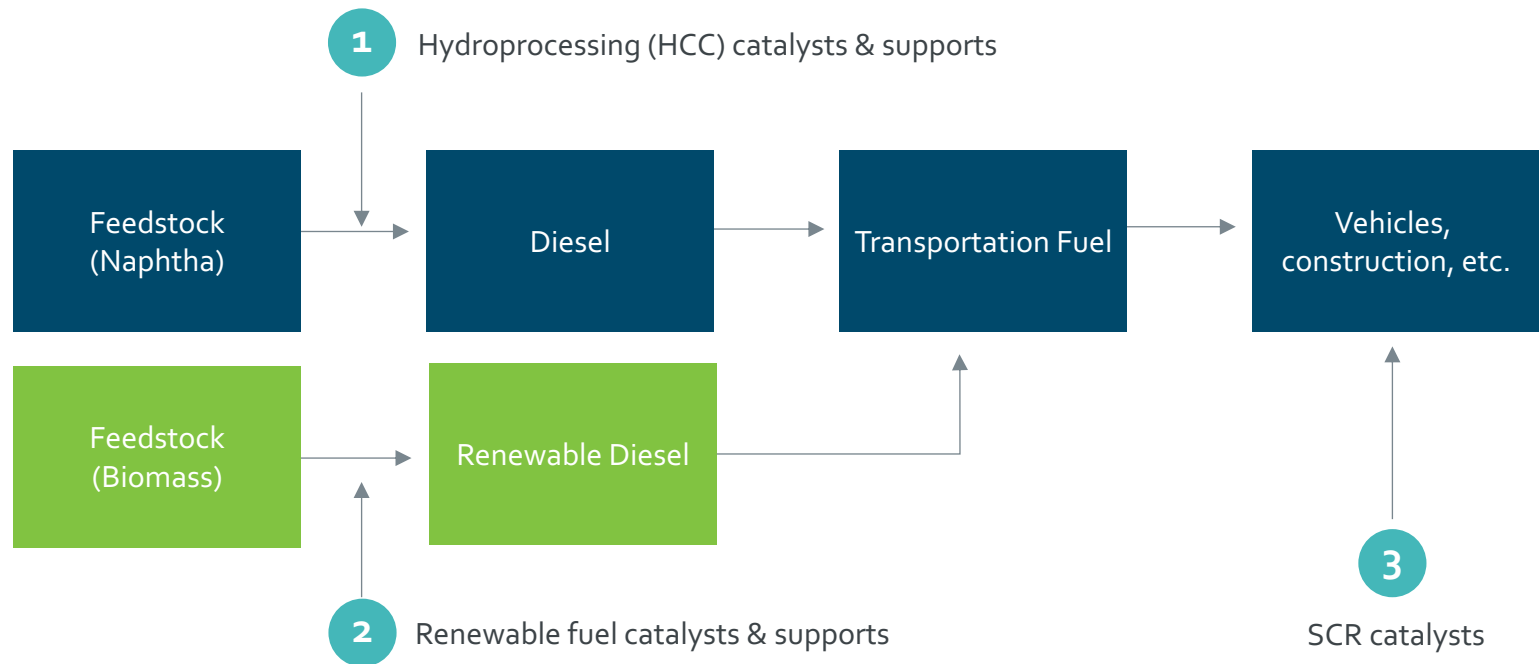
We Play a Critical Role in the Polyethylene Value Chain



Critical Functionality of ecovyst Catalysts

- Production of stronger and lighter weight polyethylene
- Production of clear and strong polyethylene films
- Reduces production cost
- Improves product quality

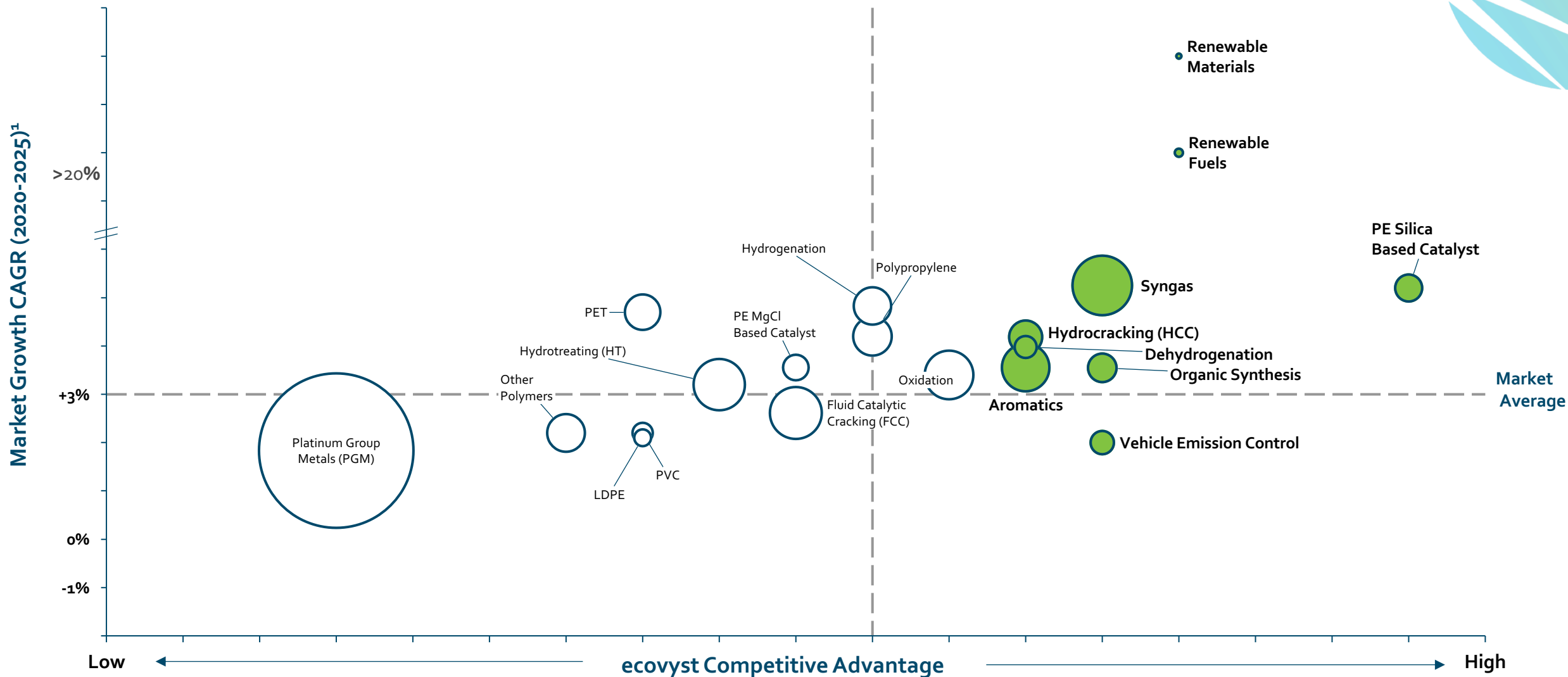
We Are Integral to Clean Fuels and Emission Control



Critical Functionality of ecovyst Catalysts

- Converts heavy oil to more efficient fuels
- Reduces production cost
- Removes sulfur to improve fuel emissions
- Cost effective production of renewable fuels
- NOx reduction to meet increasingly strict emission standards

We Focus on Higher Growth Segments Where We Have Technology Advantages



¹ Sources: TCGR, IHS and Management estimates

Polyethylene Demand Is Growing With Increasing Product Performance Requirements

>\$1B

Size

~4%

Demand CAGR
2020 – 2025

Demand
Growth &
Performance
Requirements
Driven by



1

Increasing use of polyethylene per capita among growing middle class

2

Health & Hygiene trend driving sterile packaging for food and other consumables

3

E-commerce trend driving increasing need for packaging materials

4




Lightweighting of materials for transportation and transported packaging

5

Increasing capability to recycle polymers

Fuel & Emission Control Customers Will Require More and Tailored Catalysts

Segment	Size	CAGR ¹
Hydrocracking	~\$750M	~4%
Vehicle Emissions	~\$400M	~2%
Renewable Fuels	>\$100M	>20%



Demand Growth & Performance Requirements Driven by

- 1 Growing global energy requirements
- 2 Tightening requirements for more efficient and cleaner fuels
- 3 New catalysts for renewable fuels

There Is Increasing Demand for Custom Catalysts in Niche Applications

Renewable Materials

Chemical Synthesis

Syngas Derivatives

ecovyst continues to innovate
custom catalysts to enable:



Lower energy intensity
and production costs of
current materials



The development of
renewable materials

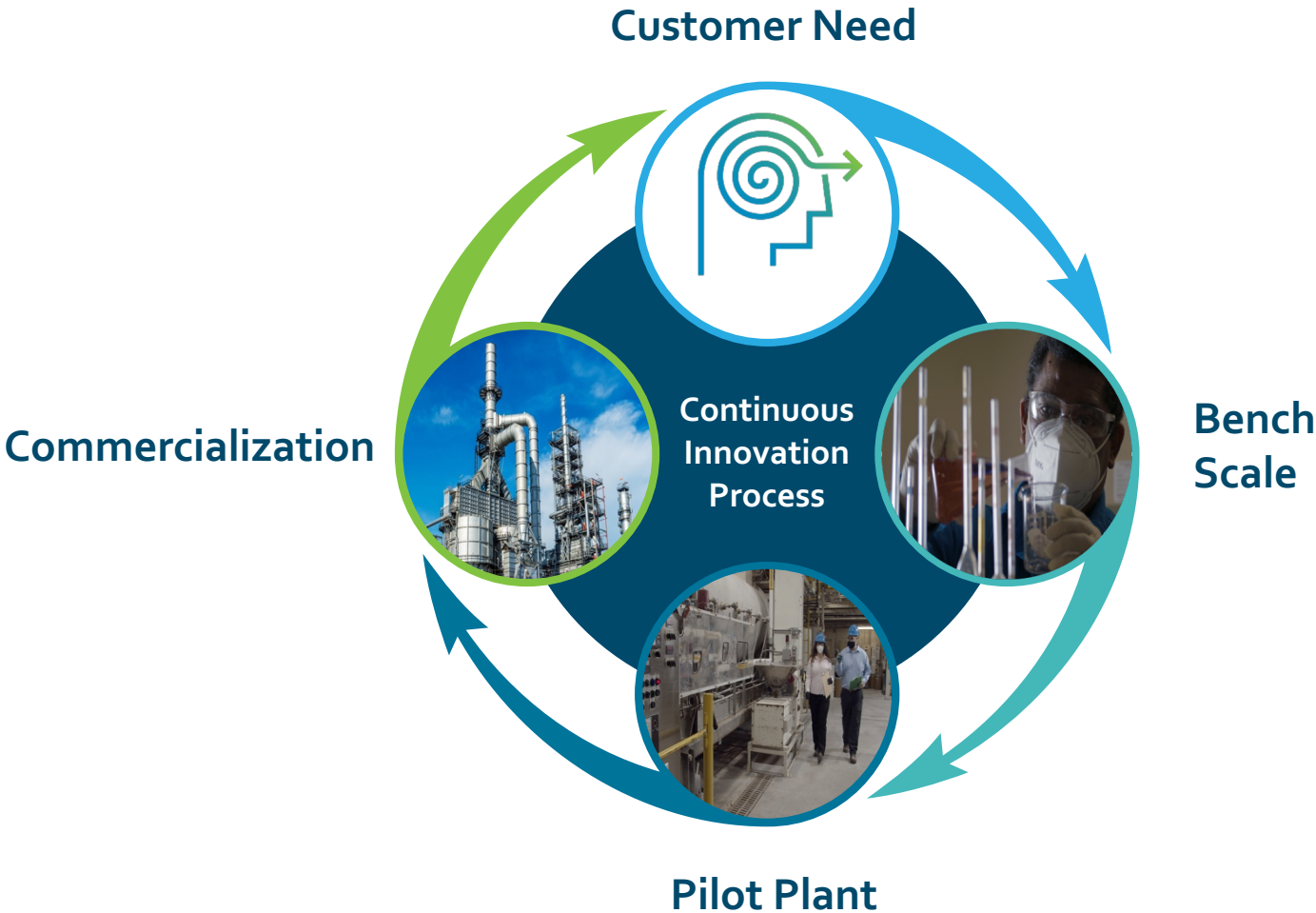


The creation of novel processes that
use syngas or waste to produce
valuable chemical products



The ability to recover
valuable metals from
waste streams

Our Innovation Model is Driven by Customer Collaboration



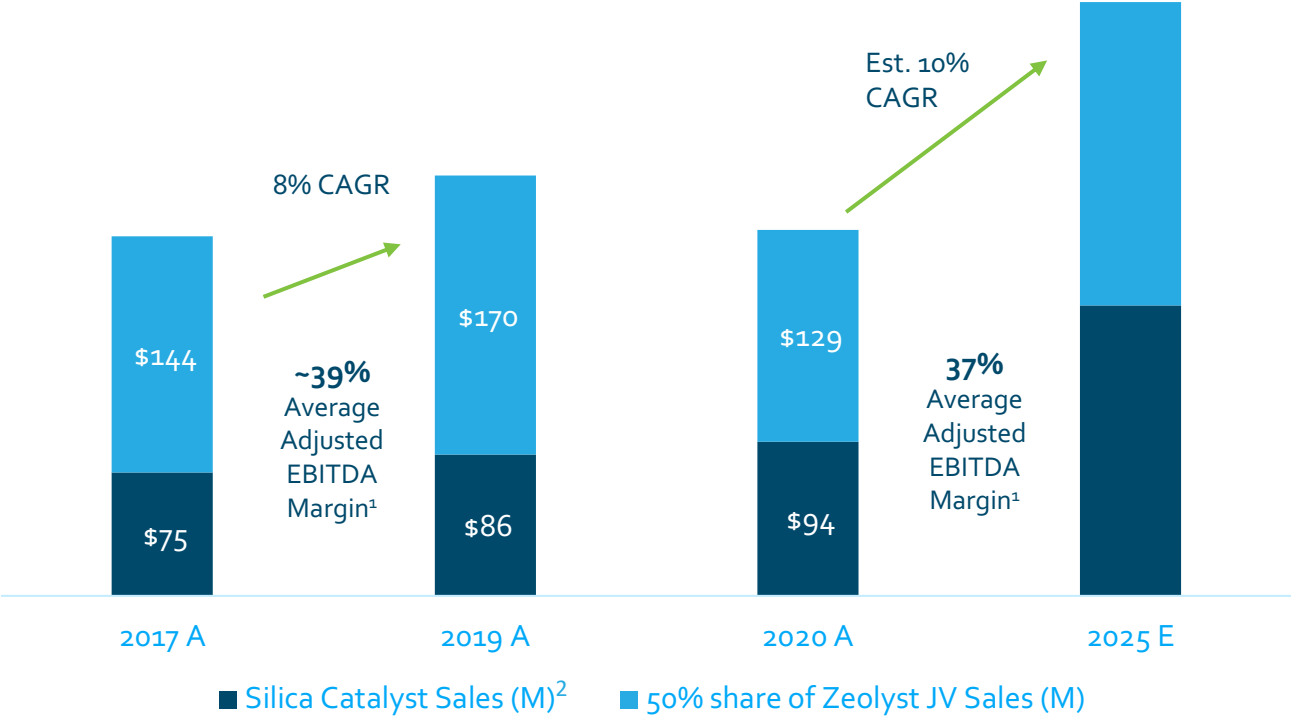
- 1 We enable our customers to develop and produce sustainable products
- 2 We provide technical support to customers from R&D through production
- 3 We are an operating and supply partner for our customers

Organic Growth Outlook

Growth Drivers

- 1 Preferred technology and increasing product offerings projected to drive >8% sales CAGR in each of our three segments through 2025
- 2 Restored manufacturing network efficiencies following 2020/2021 disruption expected to result in projected 15% Adjusted EBITDA CAGR through 2025
- 3 Upside potential from innovation pipeline and potential M&A

Organic Sales Growth Outlook



1 Adjusted EBITDA margin calculation includes proportionate 50% share of Zeolyst Joint Venture
2 Historically the Catalysts segment

Key Takeaways

We provide innovative technologies in growing markets

We selectively invest where we can grow faster than the market

Customers rely on our customized offerings resulting in predictable growth and strong margins



Innovation Overview

Dr. Ray Kolberg
Vice President, Technology & Business Development

Key Takeaways

We collaborate with customers to develop and produce sustainable products

We innovate and support customers from lab to production scale

We take a structured approach to innovation with a rich and relevant pipeline


Innovation Ecosystem



- 1 Depth in product development and science competency
- 2 Significant expertise in silica, zeolites, and catalyst technologies
- 3 Expertise to tailor and scale specialty grades to meet changing demands
- 4 Disciplined innovation process to reduce time to market
- 5 Rich and relevant product development pipeline to drive new growth


Extensive Capabilities Driving Growth

Conshohocken, PA
R&D Center & Pilot Plant



Novel Catalysts Development for
Finished Catalysts & Supports

Houston, TX
Shell R&D Center



Refining Catalysts Development for the Zeolyst JV with Shell


Strengths
of ecovyst
R&D

Amsterdam, NL
Shell R&D Center



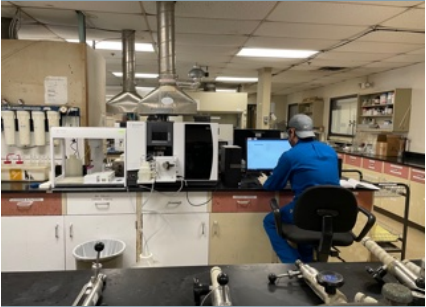
Refining Catalysts Development for the Zeolyst JV with Shell

Warrington, UK
R&D Center



Novel Catalysts Development for
Finished Catalysts & Supports

Houston, TX
Ecoservices Houston Site



Analytical and
Development Center



Strong customer
technical service
support



Global collaboration
between R&D
centers

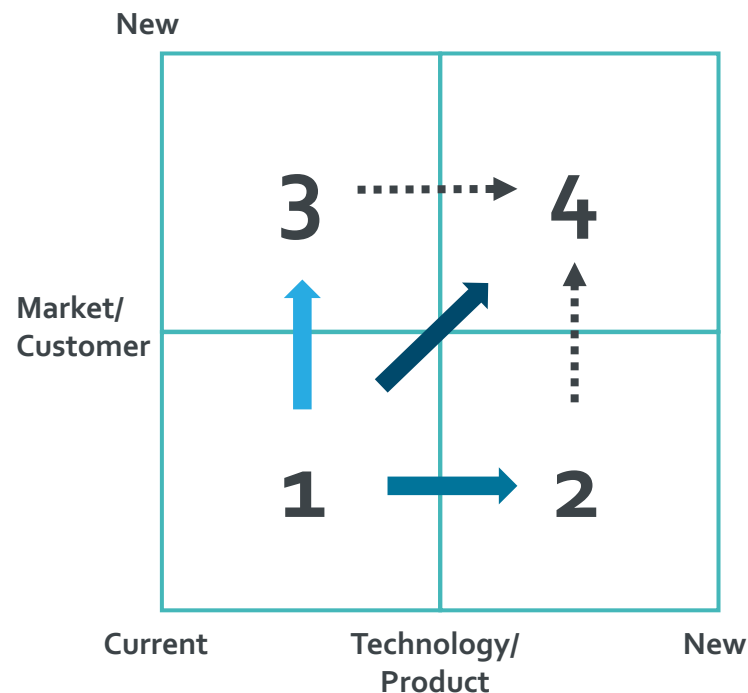


Fit for purpose product
development with close
collaboration with
customers



Pilot plant set up to
speed time to
market

Balanced Development Portfolio Approach



Market Focus

1 → 3

- Silica-based product for particulate matter reduction
- Zeolite-based diesel emission control catalysts for new applications
- Sulfuric acid for electronics industry

Technology Focus

1 → 2

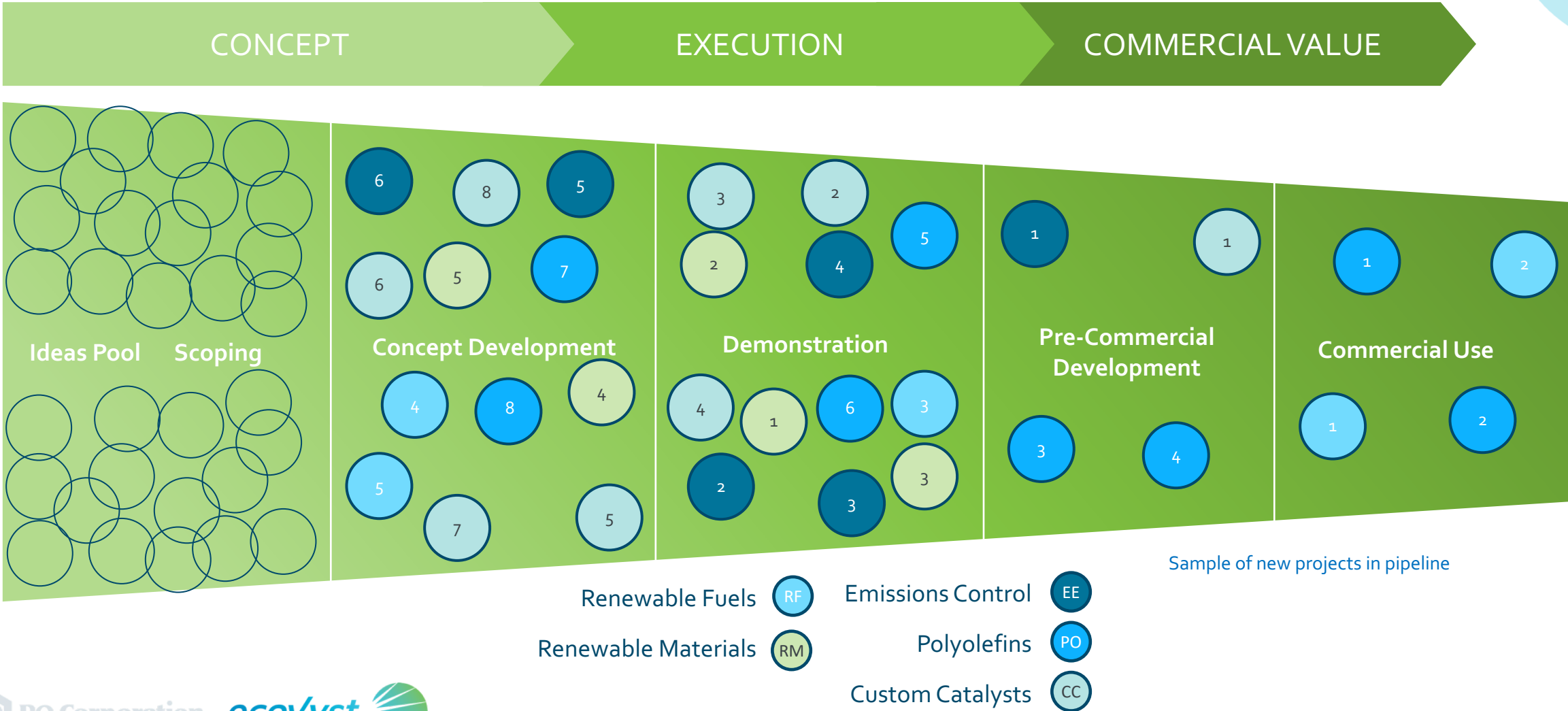
- Next generation custom chemical catalysts
- Next generation zeolite based dewaxing catalysts
- Process development for improved efficiencies and reduced waste

Step-Out Business Focus

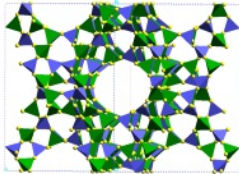
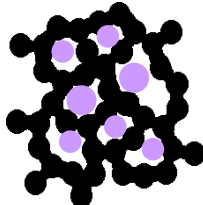
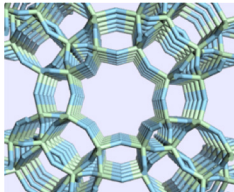
1 → 4

- Advanced ion exchange for metals removal & recovery
- Customized zeolite-based catalysts for large refinery customers
- Enhanced refinery offerings utilizing sulfur competency

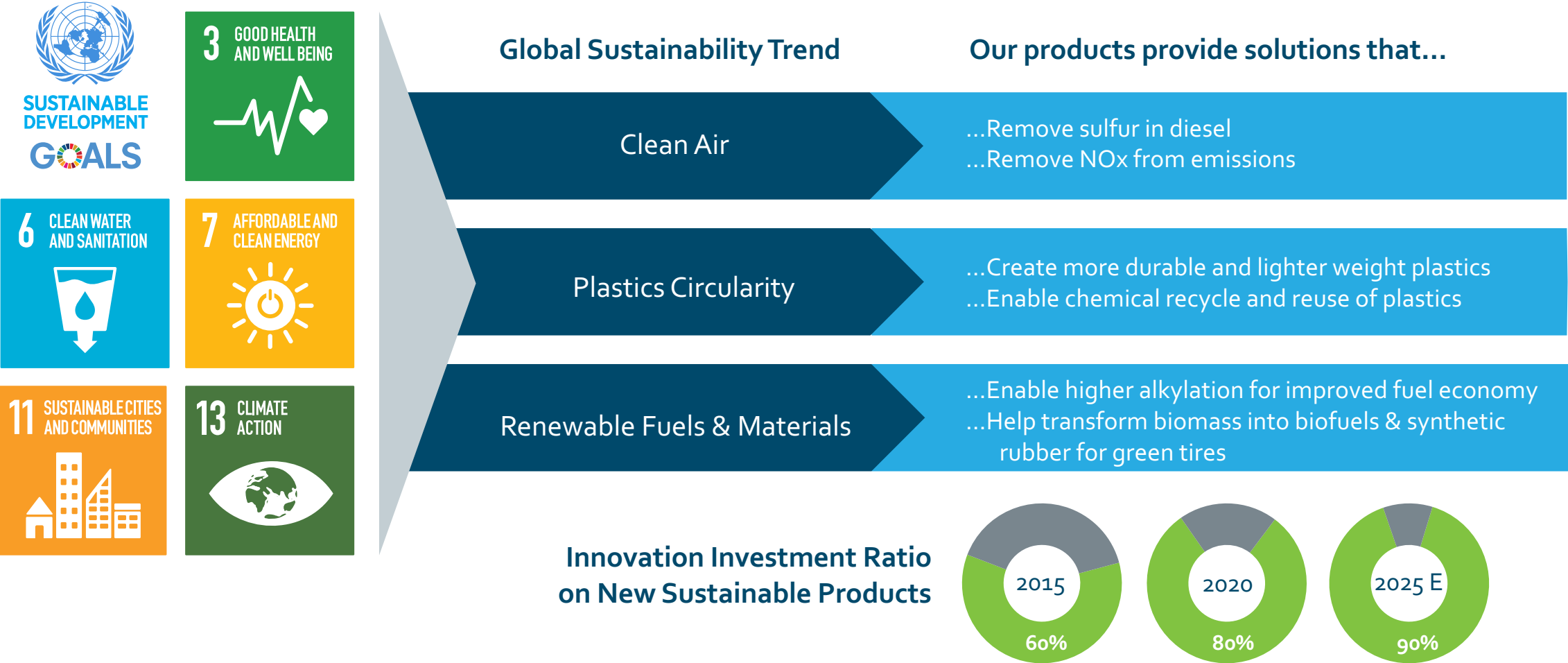
Rich and Relevant Pipeline



A Peek Into Some Active Innovation Projects

Project	Approach	Catalyst Base	Description
Custom Catalysts for Plastics Chemical Recycling (Demonstration)	Developing novel catalysts that enable chemical recycling of mixed plastics waste through pyrolysis	 Zeolite	Zeolite-based catalysts are used in the pyrolysis process for the chemical recycling of plastics waste. The catalyst allows for conversion to higher value hydrocarbons of shorter length while reducing temperature and allowing for lower energy consumption in the process.
Renewable Fuels (Pre-Commercial)	Collaborating with a customer to develop a novel catalyst for converting biomass into aviation fuel	 Silica Catalysts	This customized finished Silica Catalyst enables processes like Fischer Tropsch that are essential in the production of sustainable aviation fuel (SAF) allowing the aviation industry to reduce its carbon footprint.
Emission Control (Pre-Commercial)	Launching a new SCR zeolite formulation that meets the new emissions regulations for China VI with improved processability	 Zeolite	This Zeolite catalyst is used in Selective Catalytic Reduction (SCR) for the conversion of NOx to Nitrogen from diesel emissions. Zeolite performs over a wider operating temperature range of the engine exhaust system to meet stricter regulations.

Impact on New Sustainable Solutions



Key Takeaways

We collaborate with customers to develop and produce sustainable products

We innovate and support customers from lab to production scale

We take a structured approach to innovation with a rich and relevant pipeline



Financial Performance & Goals Overview

Mike Crews

Executive Vice President and Chief Financial Officer

Key Takeaways

Proven topline
growth

Strong and
sustainable
margins

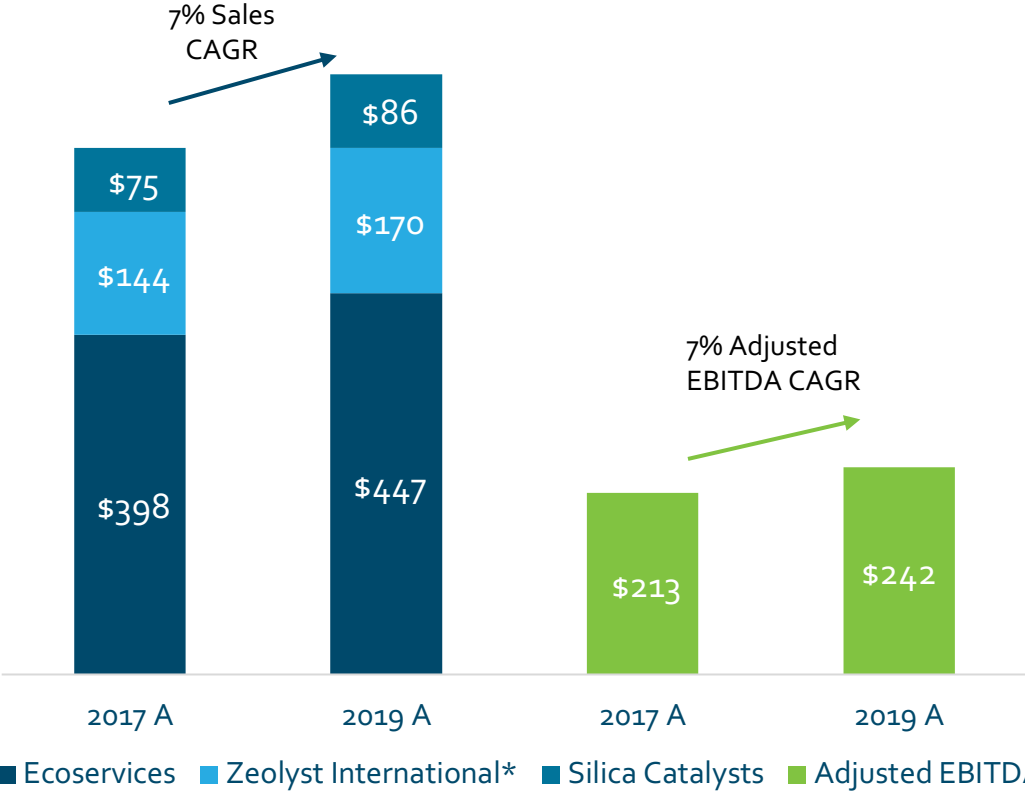
Secure high free
cash conversion

Superior metrics
warrant expanded
multiple



Solid Financial Performance and Sustainable Adjusted EBITDA Margins Exceeding Peers

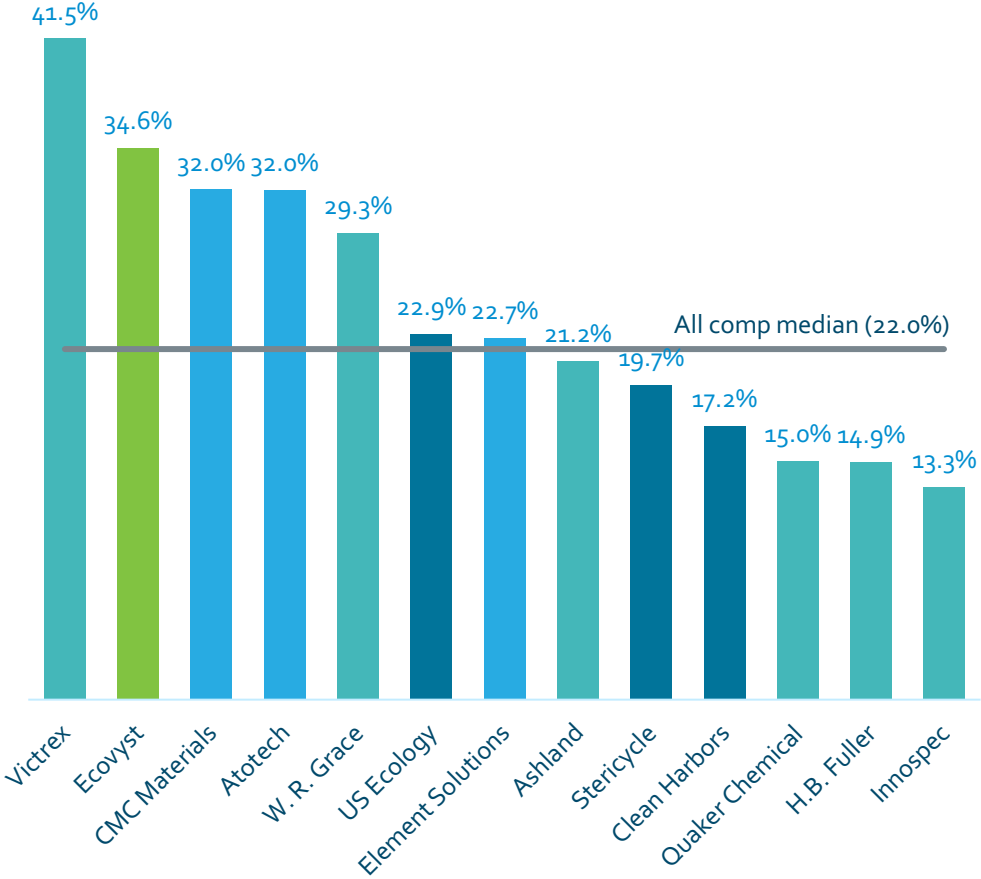
Historical Sales and Adjusted EBITDA Growth (in millions)¹



*Represents 50% share of Zeolyst Joint Venture sales

1 Sales represent Total ecovyst Sales plus the 50% share of Zeolyst Joint Venture sales; Adjusted EBITDA represents Total ecovyst Adjusted EBITDA

2019 Adjusted EBITDA Margin² vs. Peers³



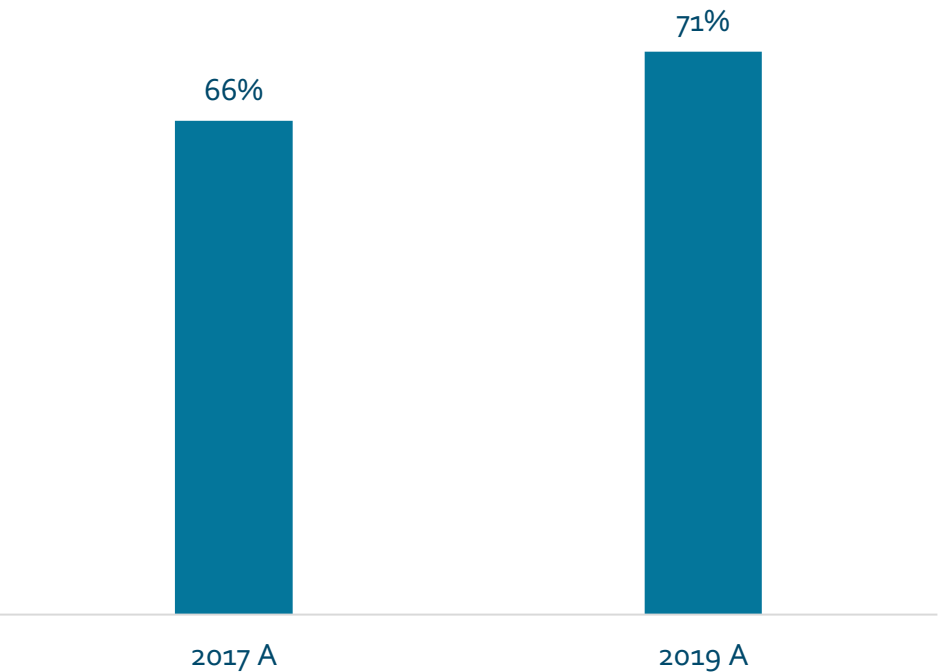
2 Adjusted EBITDA margin calculation includes 50% share of Zeolyst Joint Venture

3 PQ for historical data and select company filings, FactSet, for forecasted data. Market data as of 3/26/2021

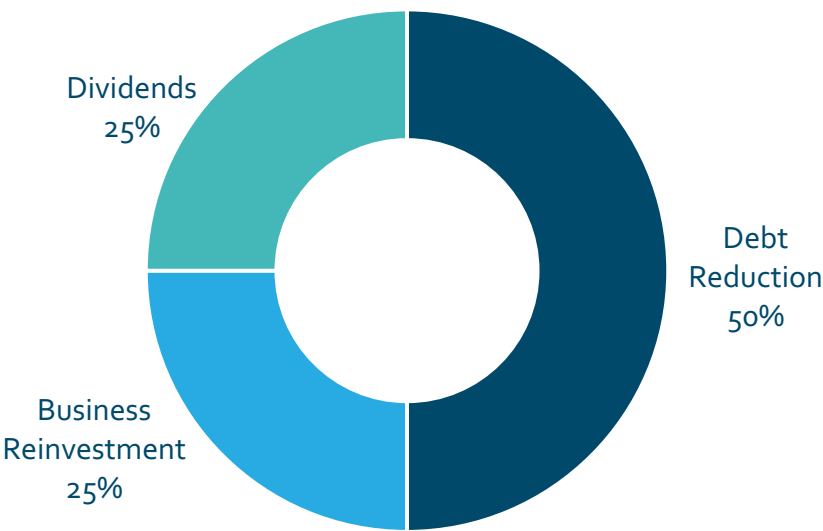
Robust Cash Conversion and Portfolio Actions Enabled Optimal Capital Allocation

Cash Conversion

$$\text{Cash Conversion} = (\text{Adjusted EBITDA}^1 - \text{CapEx}^2) / \text{Adjusted EBITDA}^1$$

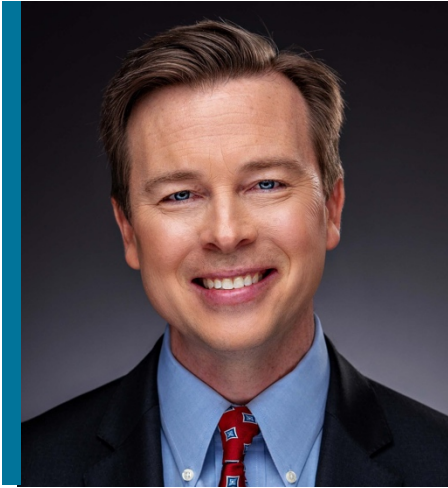


Use of Robust Adjusted Free Cash Flows and Net Sale Proceeds, Since IPO³



3. Adjusted for Chem32 acquisition and anticipated use of proceeds from sale of Performance Chemicals

2017 Cash conversion includes \$72 million of ecovyst capital spending, including 50% share of Zeolyst Joint Venture
2019 Cash conversion includes \$70 million of ecovyst capital spending, including 50% share of Zeolyst Joint Venture
1. Adjusted EBITDA represents Total ecovyst Adjusted EBITDA
2. CapEx represents ecovyst capital spending and excludes capital spending from Performance Materials and Performance Chemicals



Financial Performance & Goals Overview

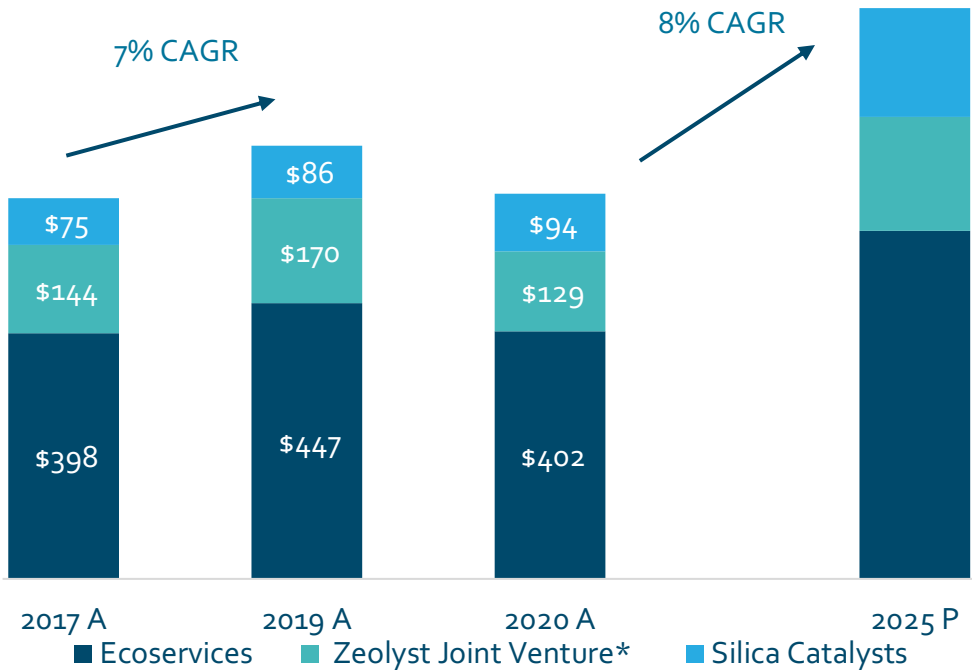
Mike Feehan

Vice President of Finance and Treasurer

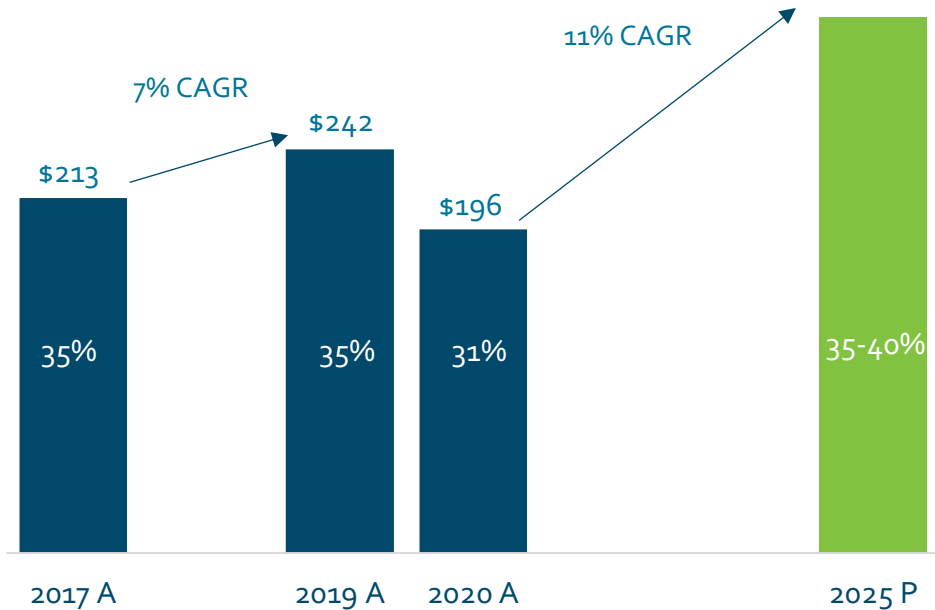
Top-Line Organic Growth and Operational Improvements Drive Higher Adjusted EBITDA and Margins



Total Sales (in millions)¹



Adjusted EBITDA¹ (in millions) and Margins²

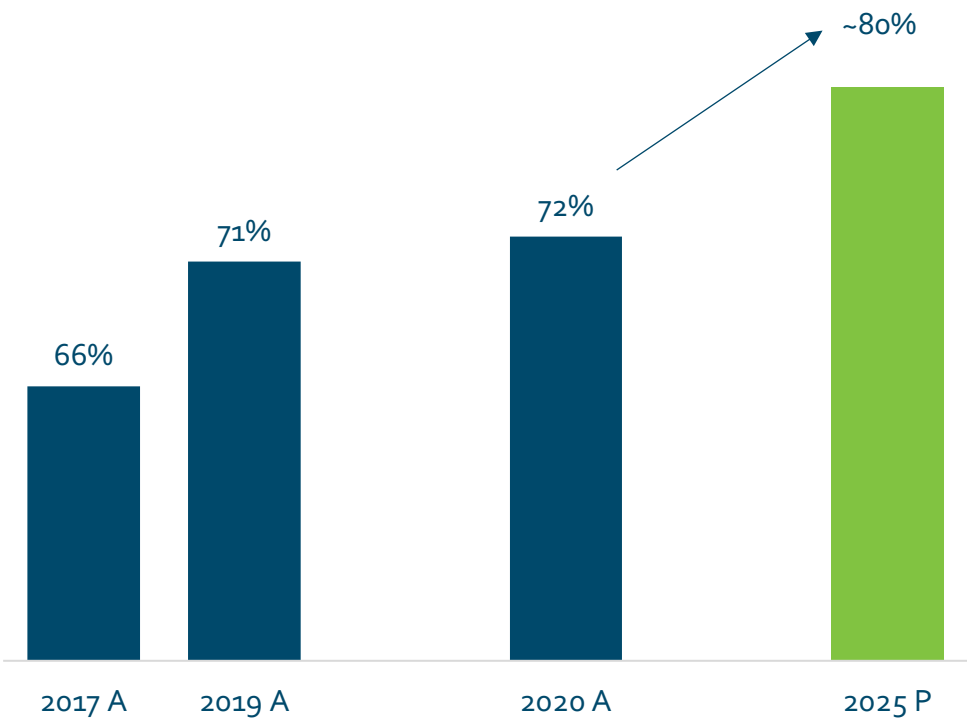


*Represents 50% share of Zeolyst Joint Venture sales
1 Sales represent Total ecovyst Sales plus the 50% share of Zeolyst Joint Venture sales; Adjusted EBITDA represents Total ecovyst Adjusted EBITDA

2 Adjusted EBITDA margin calculation includes 50% share of Zeolyst Joint Venture

Strong Cash Conversion to Fund Future Growth and Pay Down Debt

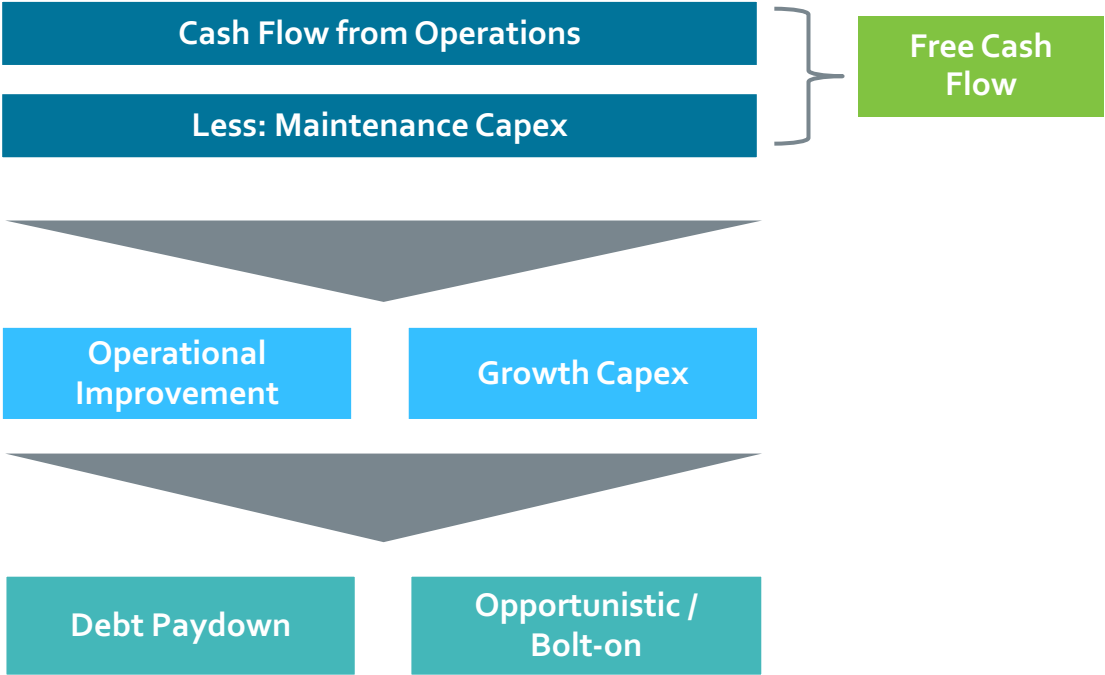
Cash Conversion



2017 Cash conversion includes \$72 million of capital spending, including 50% of Zeolyst Joint Venture
2019 Cash conversion includes \$70 million of capital spending, including 50% of Zeolyst Joint Venture
2020 Cash conversion includes \$55 million of capital spending, including 50% of Zeolyst Joint Venture

Capital spending represents ecovyst capital spending and excludes capital spending from Performance Materials and Performance Chemicals

Capital Allocation Strategy



ecovyst Delivers Best in Class Metrics but Remains Undervalued vs. Peers

Public Comparables & The Rationale

Specialty Chemicals & Materials



- High growth, high margin specialty chemicals
- Strong FCF conversion vs specialty chemical peers
- Similar end use exposure

Electronic Chemicals



- Growth rates aligned with ecovyst
- 20+% EBITDA margins
- Similar FCF conversion

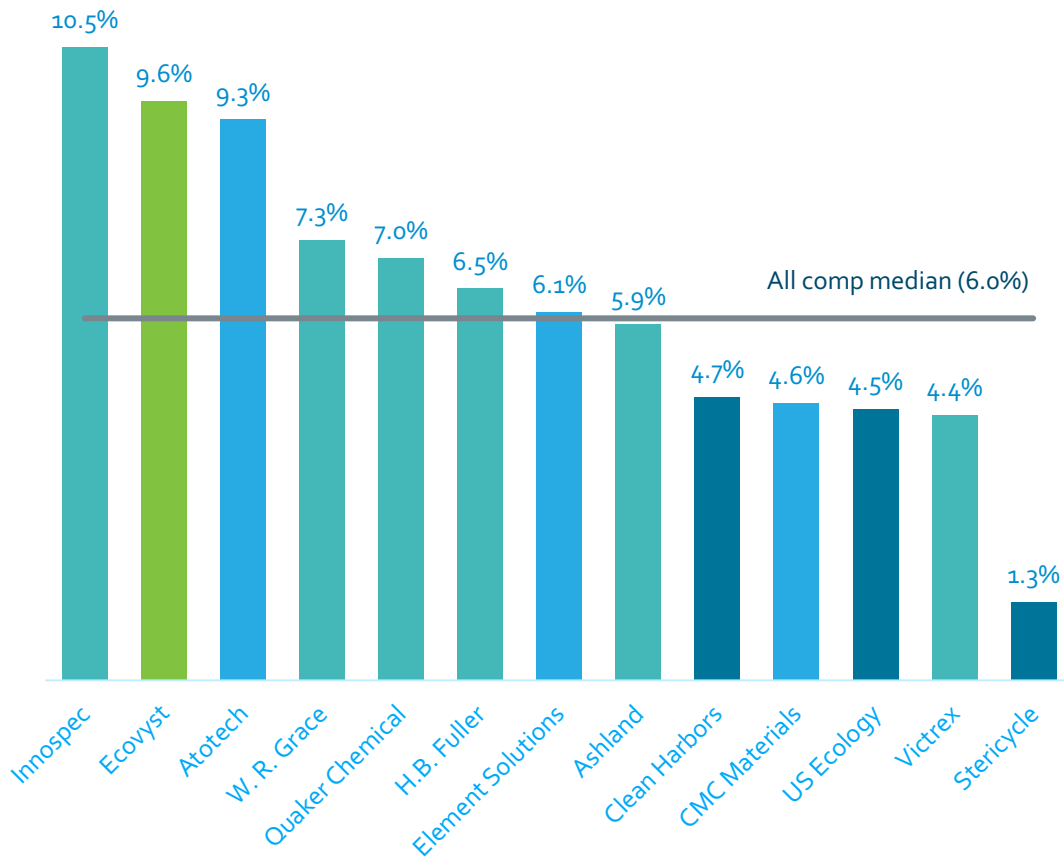
Recycling/Environmental Services



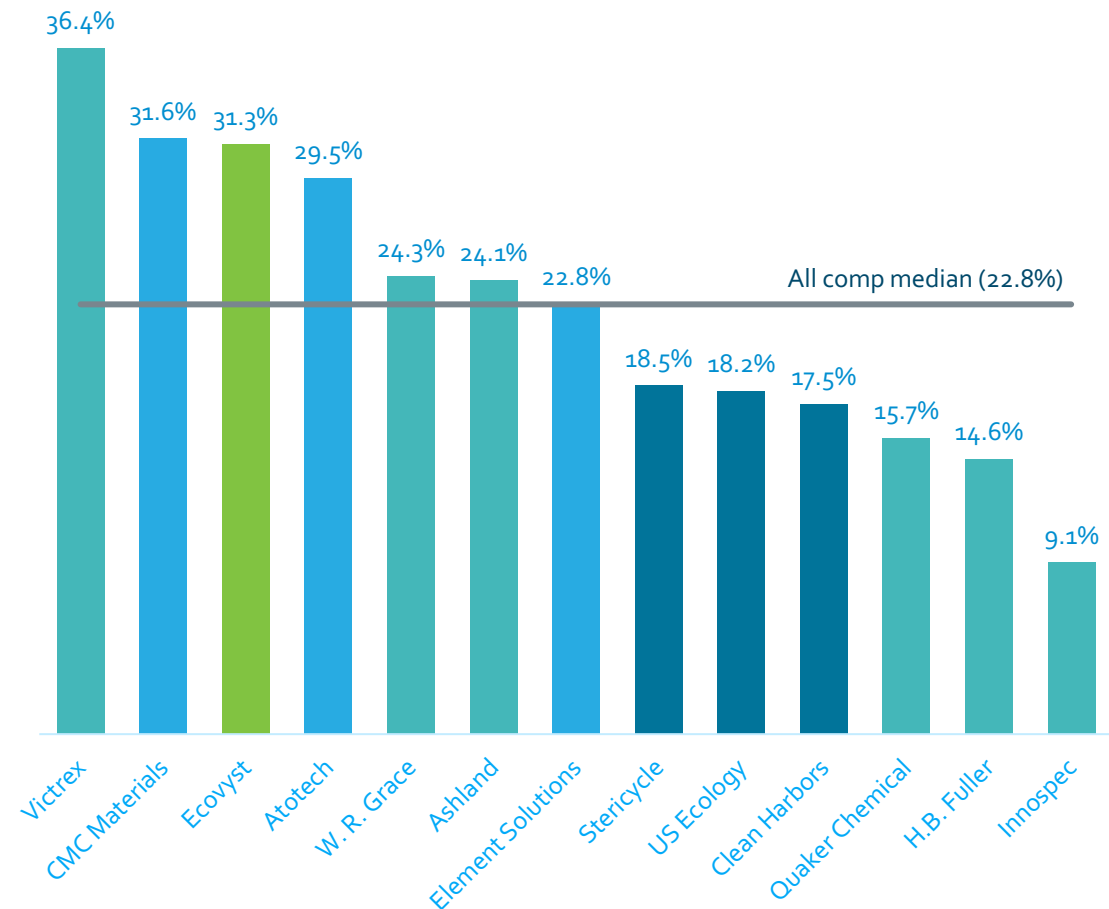
- Critical support for US manufacturing
- Driven by recycling and reusing industrial waste
- Strategic operating footprints a key advantage
- Long term contracts

ecovyst Delivers Best in Class Metrics but Remains Undervalued vs. Peers

Sales CAGR 2020-2022 E

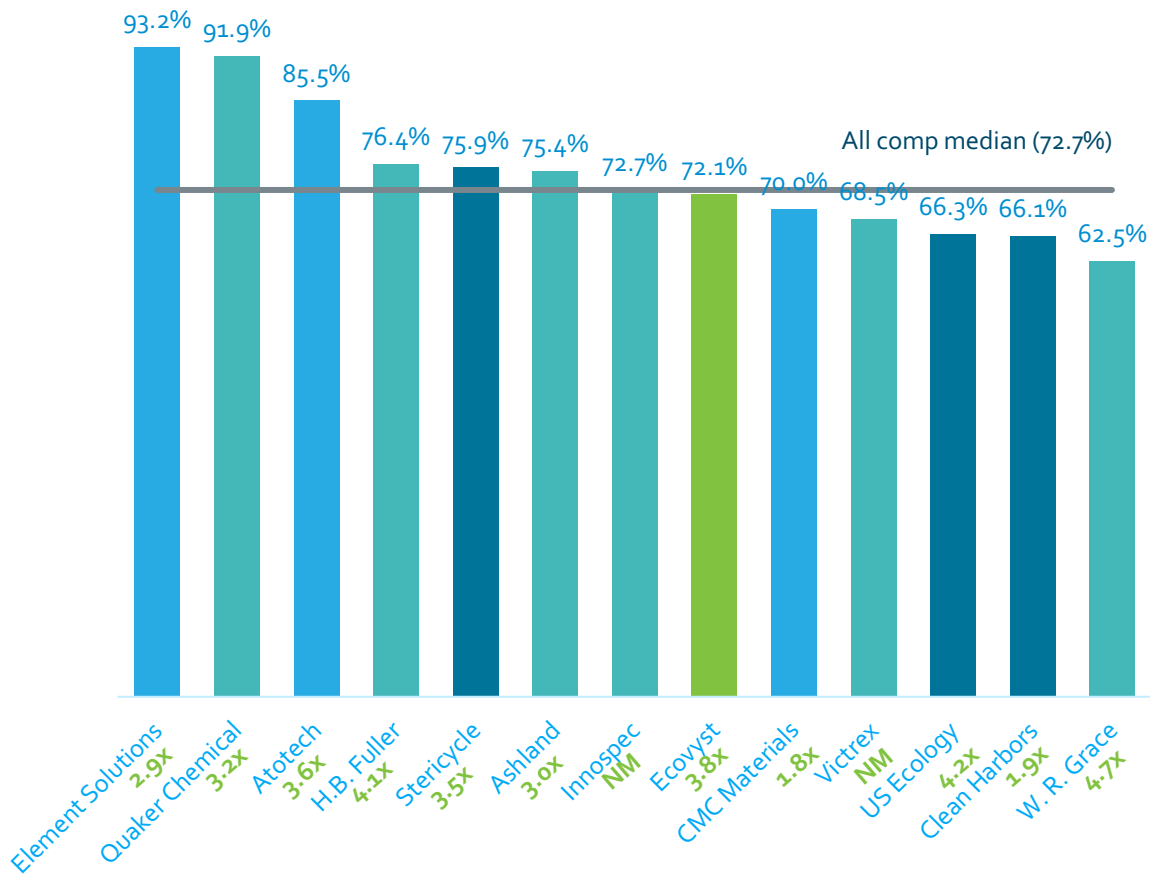


2020 Adjusted EBITDA Margin

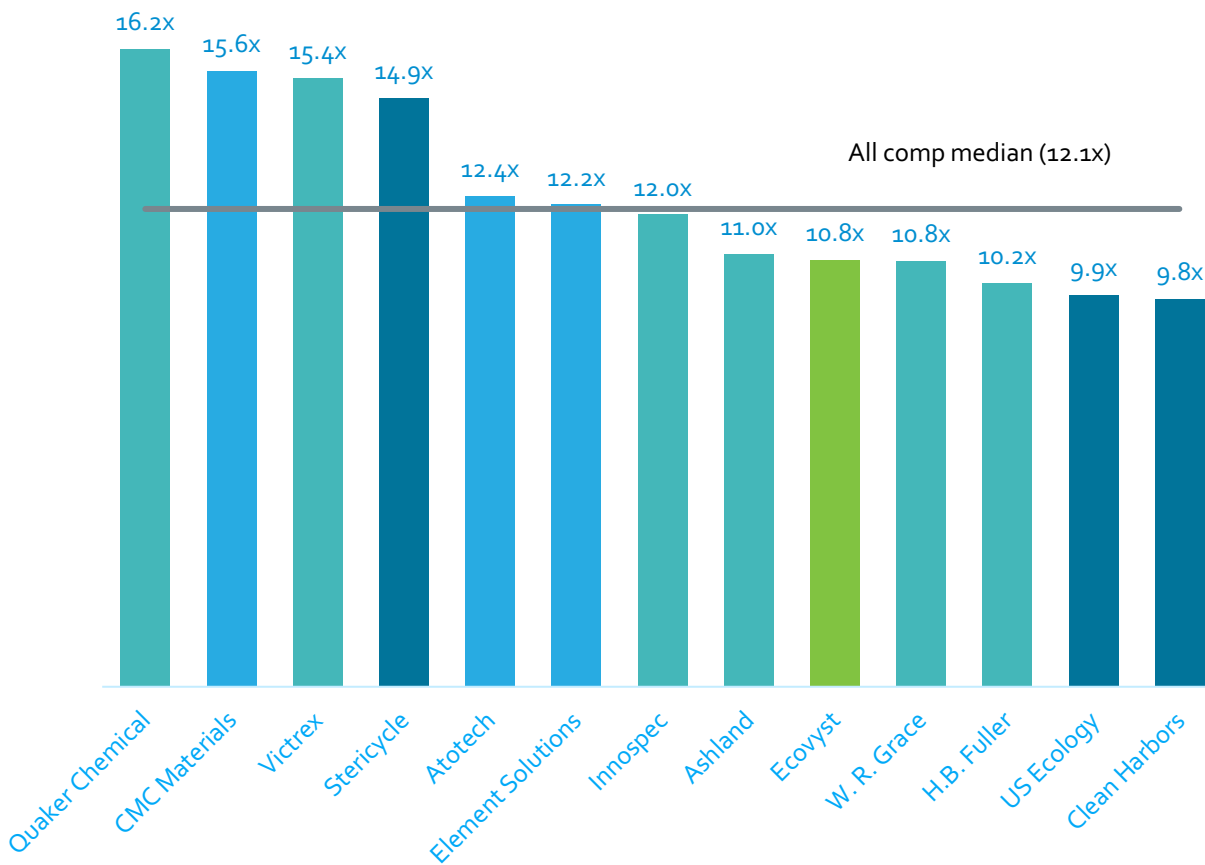


ecovyst Delivers Best in Class Metrics but Remains Undervalued vs. Peers

2020 Cash Conversion & Current Net Debt/Adjusted EBITDA

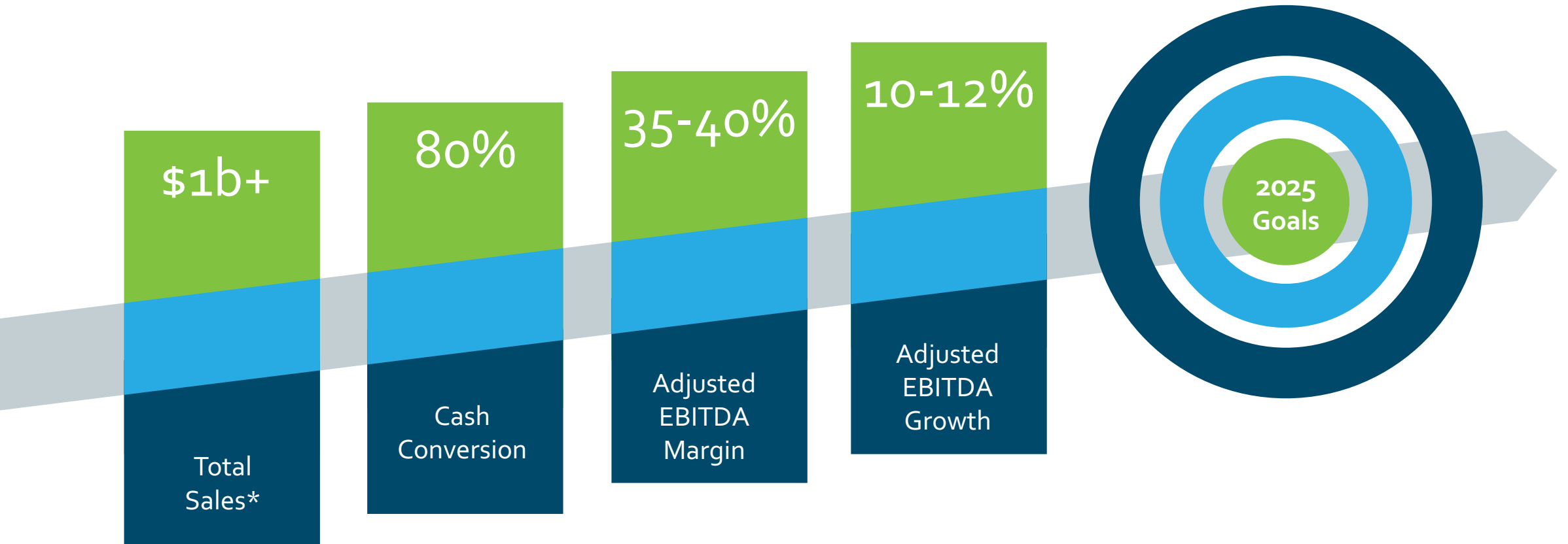


2022 E EV/Adjusted EBITDA



Source: PQ for historical data and select company filings, FactSet, for forecasted data. Market data as of 3/26/2021

2025 Goals – Targeting Across the Board Improvements Moving Forward



*Total sales represents ecovyst, 50% share of Zeolyst Joint Venture, and 10% projected inorganic growth



Closing Remarks

Belgacem Chariag
Chairman, President, and Chief Executive Officer

ecovyst Business Proposition...

1

Proven operational and commercial execution.



Well-defined growth strategy supported by solid execution foundation

2

High single-digit top-line growth plus additional inorganic growth opportunities with strong and sustainable margins rivaling best-in-class companies.



Operating in growing industries, and transition solutions are real expansion opportunities

3

Strong cash flows and high revenue visibility from customer collaborations, specified products and long-term contracts.



2025 goal to reach >\$1B in total sales with strong margins and cash conversion

4

Focused on developing catalysts, solutions and services for improving environmental sustainability and enabling transition.



> 80% of innovation pipeline focused on sustainability products and solutions

5

Innovative and proprietary technologies and processes driving disruption in the catalyst business.



Collaborating and innovating with customers to further their sustainability initiatives

APPENDIX



Management Bios



Belgacem Chariag

Chairman, President and Chief Executive Officer

Mr. Chariag joined PQ Corporation in August 2018. Prior to joining PQ, he served as Chief Global Operations Officer at Baker Hughes, a GE Company, where he headed the operations of the global entity after Baker Hughes' merger with GE Oil & Gas, until January 2018. Prior to that, Mr. Chariag served as President, Global Operations as well as President, Global Products and Services for Baker Hughes. He also previously served as President of Baker Hughes Eastern Hemisphere Operations.

Prior to joining Baker Hughes in 2009, and for 20 years, Mr. Chariag held a variety of leadership and management roles for Schlumberger, including serving as President of Well Services Business Unit and Vice President of Global Health, Safety, Environment and Security. He earned a Bachelor of Science degree in Petroleum Engineering from the University of Texas and a Master of Business Administration degree in Global Energy from the University of Calgary Haskayne School of Business.



Mike Crews

**Executive Vice President and
Chief Financial Officer**

Mr. Crews joined PQ Corporation in August 2015. Prior to joining PQ, he was Executive Vice President and Chief Financial Officer at Peabody Energy Corporation from 2008 to 2015. From 1998 to 2008, Mr. Crews held various executive and management positions at Peabody Energy Corporation in Operations Planning, Treasury and Financial Planning and Analysis. Mr. Crews began his career in KPMG's audit function. He earned a Bachelor of Science degree in Accounting from the University of Missouri-Columbia and a Master of Business Administration degree from Washington University in St. Louis.

Management Bios



Mike Feehan

Vice President of Finance and Treasurer

Mr. Feehan first joined PQ Corporation in December 2006 and has served as Vice President of Finance and Treasurer since May 2016. From 2008 to 2016 he served as Corporate Controller. Prior to joining PQ, Mr. Feehan served as Director of Finance and Corporate Controller for Radnor Holdings Corporation, and began his career in public accounting with Arthur Andersen and KPMG.

He holds a Bachelor of Business Administration degree in Accounting and Computer Applications from the University of Notre Dame and a Master of Business Administration degree from Villanova University.



Tom Schneberger

President of the Catalysts Group

Mr. Schneberger was named President, Catalyst Technologies in March 2021. He joined PQ Corporation in December 2019 to lead strategy and business development efforts. He played a key role in transforming PQ into a high-growth catalyst and related services company. Prior to PQ, Mr. Schneberger served as the Chief Operating Officer for FMC, Lithium, which publicly listed as Livent, and the Global Business Director for FMC, Alkali Chemicals. During his tenure at FMC, he also led the creation and implementation of FMC's award-winning sustainability program.

Prior to joining FMC, he held various leadership and management roles at Rhône Poulenc, Rhodia, Safety Compliance Management and General Chemical. He earned a Master of Business Administration from the University of California at Berkeley, a Bachelor of Science in Chemical Engineering from Lehigh University and currently sits on the Board for Habitat for Humanity Philadelphia.

Management Bios



Dr. Ray Kolberg
Vice President, Technology
& Business Development

Dr. Kolberg joined PQ Corporation in 2016 and is responsible for leading PQ's innovation and business development efforts. He had previously held the position of Group President of the Catalysts business, which includes the Zeolyst International joint venture with Shell Catalysts and Technologies. Prior to joining PQ, Dr. Kolberg held leadership positions at GE and Momentive Performance Materials Inc. Dr. Kolberg is a graduate of Baldwin Wallace College in Berea, Ohio, where he earned a Bachelor of Arts in Business Administration. He also holds a Bachelor of Science in Mechanical Engineering from Case Western Reserve University in Cleveland; a Master of Science degree in Mechanical Engineering from Rensselaer Polytechnic Institute in Troy, New York; and a Ph.D. in Mechanical Engineering from the University of Michigan in Ann Arbor.



Kurt Bitting
President, Refining Services

Mr. Bitting joined Eco Services in 2006, serving as Vice President, Business Director, and Sulfur Products Manager. Prior to joining PQ, Mr. Bitting held management positions at Kinder Morgan, Inc. and Sprint Corporation. As a Captain in the U.S. Army, Mr. Bitting served as a Company Commander in the 10th Mountain Division. He was the recipient of an Army ROTC scholarship and graduated from Villanova University with a Bachelor of Science in Business Administration and holds a Master of Business Administration degree from Rider University.

Management Bios



Nahla A. Azmy

**Vice President, Investor Relations and
Financial Communications**

Ms. Azmy joined PQ Corporation in January 2018. She has nearly 20 years of experience as a senior investor relations officer and equity analyst. Prior to joining PQ, Ms. Azmy was Head of Investor Relations for Versum Materials, which was spun out of Air Products in October 2016. At Versum she developed and executed an investor relations program for the company. Her previous roles included leading investor relations programs for Alcoa, Rockwood Holdings, and NRG Energy. Before joining NRG, Ms. Azmy was an equity analyst for eight years with a top-ranked Utilities and Power Research team. Ms. Azmy holds a Bachelor of Arts from Colgate University, a Master of Business Administration degree from NYU Stern School of Finance and was awarded the NIRI IRC credential.



Chris Hall

Corporate Controller

Mr. Hall joined PQ Corporation as Corporate Controller in August 2016. Prior to joining PQ, Mr. Hall spent seven years at Airgas, Inc., a leading manufacturer and distributor of industrial, medical and specialty gases, most recently as the Director of Financial Reporting. Mr. Hall began his career in public accounting with PricewaterhouseCoopers, spending nine years in the audit practice working with companies in the utilities, energy and manufacturing sectors. He graduated with a Bachelor of Science in Accounting and International Business from Pennsylvania State University and earned a Master of Business Administration degree from Villanova University.

Management Bios



Elaine T. Simpson

Vice President, Health, Safety, Environment & Sustainability

Ms. Simpson assumed the role of Vice President, Health, Safety, Environment & Sustainability in March 2021, having joined PQ Corporation in 2002. For the past few years, she has focused on improving PQ's environmental performance while also leading efforts to develop and implement a robust sustainability program. Ms. Simpson previously served as Vice President of Health, Safety and Environment (HSE) for 14 years. Prior to joining PQ, Ms. Simpson held numerous HSE leadership roles throughout her career, which began in BP Oil Company's downstream refining business and progressed to Tremco Inc. and The Mead Corporation. She holds a Bachelor of Science in Chemical Engineering from Washington University in St. Louis, and both a Master of Science and Master of Business Administration degree from Case Western Reserve University.



Joseph S. Koscinski

Vice President, Secretary and General Counsel

Mr. Koscinski became Vice President, Secretary and General Counsel in November 2015. From August 1995 to October 2015, Mr. Koscinski was an attorney in the Business Services Group of Babst, Calland, Clements and Zomnir, P.C., a law firm in Pittsburgh, Pennsylvania, where he was named a shareholder in 2003, and where his corporate practice included mergers and acquisitions, real estate matters and commercial contracts. While in private practice, Mr. Koscinski served as outside corporate counsel to PQ Corporation since 2005. He holds a Bachelor of Arts in Journalism and Communication from Point Park University in Pittsburgh and a Juris Doctor from Duquesne University School of Law.

GAAP Reconciliations 2017-2020

RECONCILIATION OF NET INCOME (LOSS) TO SEGMENT ADJUSTED EBITDA

(\$ in millions)	Continuing Operation		Legacy PQ	
	Year Ended	Year Ended	Year Ended	Year Ended
	December 31,	December 31,	December 31,	December 31,
	2020	2019	2018	2017
Reconciliation of net income (loss) attributable to PQ Group Holdings Inc. to Segment Adjusted EBITDA				
Net (loss) income attributable to PQ Group Holdings Inc.	(176.3)	65.1	58.3	57.6
Provision for (benefit from) income taxes	(48.1)	39.7	29.0	(119.2)
Interest expense	67.0	87.1	113.7	179.0
Depreciation and amortization	151.8	151.8	185.2	177.1
EBITDA	(5.6)	343.7	386.2	294.5
Joint venture depreciation, amortization and interest ^a	14.7	14.7	12.6	11.1
Amortization of investment in affiliate step-up ^b	6.6	7.5	6.6	8.6
Amortization of inventory step-up ^c	—	—	1.6	0.9
Impairment of fixed assets, intangibles and goodwill	260.0	—	—	—
Debt extinguishment costs	25.0	3.4	7.8	61.9
Net (gain) loss on asset disposals ^d	(0.1)	(13.2)	6.6	5.8
Foreign currency exchange (gain) loss ^e	(4.2)	2.4	13.8	25.8
LIFO expense ^f	(5.2)	9.7	8.4	3.7
Management advisory fees ^g	—	—	—	3.8
Transaction and other related costs ^h	8.6	0.4	0.9	7.4
Equity-based and other non-cash compensation	21.5	16.2	19.5	8.8
Restructuring, integration and business optimization expenses ⁱ	15.6	3.6	14.0	13.2
Defined benefit plan pension cost (benefit) ^j	—	3.0	(0.8)	2.9
Gain on contract termination ^k	—	—	(20.6)	—
Other ^l	1.1	2.5	7.4	4.9
Adjusted EBITDA	338.0	393.9	464.0	453.3
Unallocated corporate costs	36.1	41.0	37.0	30.5
Total Segment Adjusted EBITDA ¹	374.1	434.9	501.0	483.8

1. For additional information with respect to each adjustment, see "Descriptions for Reconciliation of Non-GAAP Financial Measures"

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

GAAP Reconciliations 2017-2020

SEGMENT SALES, ADJUSTED EBITDA AND MARGINS

	Continuing Operation		Legacy PQ	
	Year Ended	Year Ended	Year Ended	Year Ended
	December 31,	December 31,	December 31,	December 31,
(\$ in millions except %)	2020	2019	2018	2017
PQ Group Holdings Inc. Sales:				
Refining Services	401.9	447.1	455.6	398.4
Silica Catalysts	94.0	85.7	72.1	75.3
Performance Materials	—	—	378.3	324.2
Performance Chemicals	614.7	670.5	717.3	687.6
Eliminations	(3.2)	(3.4)	(15.1)	(13.4)
Total PQ Group Holdings Inc. sales	1,107.4	1,199.9	1,608.2	1,472.1
Zeolyst joint venture sales	128.6	170.3	156.7	143.8
ecovyst Sales:				
Refining Services	401.9	447.1	455.6	398.4
Silica Catalysts	94.0	85.7	72.1	75.3
Total ecovyst sales	495.9	532.8	527.7	473.7
Zeolyst joint venture sales	128.6	170.3	156.7	143.8
PQ Group Holdings Inc. Adjusted EBITDA:				
Refining Services	157.2	175.6	176.5	154.2
Catalysts	74.5	107.8	81.1	89.4
Performance Materials	—	—	72.5	69.7
Performance Chemicals	142.4	151.5	170.9	170.5
Total PQ Group Holdings Inc. Segment Adjusted EBITDA	374.1	434.9	501.0	483.8
Corporate	(36.1)	(41.0)	(37.0)	(30.5)
Total PQ Group Holdings Inc. Adjusted EBITDA	338.0	393.9	464.0	453.3
ecovyst Adjusted EBITDA:				
Refining Services	157.2	175.6	176.5	154.2
Catalysts	74.5	107.8	81.1	89.4
Total ecovyst Segment Adjusted EBITDA	231.7	283.4	257.6	243.6
Corporate	(36.1)	(41.0)	(37.0)	(30.5)
Total ecovyst Adjusted EBITDA	195.6	242.4	220.6	213.1
ecovyst Adjusted EBITDA Margin:				
Refining Services	39.1%	39.3%	38.7%	38.7%
Catalysts ¹	33.5%	42.1%	35.4%	40.8%
Total ecovyst Adjusted EBITDA Margin¹	31.3%	34.5%	32.2%	34.5%

GAAP Reconciliations 2017-2020

DESCRIPTIONS FOR RECONCILIATION OF NON-GAAP FINANCIAL MEASURES

- a) We use Adjusted EBITDA as a performance measure to evaluate our financial results. Because our Catalysts 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 ("Eco") in May 2016 (the "Business Combination"). 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 fixed assets and intangible assets, including customer relationships and technical know-how.
- c) As a result of the Sovitec acquisition and the Business Combination, there was a step up in the fair value of inventory, which is amortized through cost of goods sold in the statement of income
- d) 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. During the year ended December 31, 2019, the net gain on asset disposals includes the gains related to the sale of a non-core product line and sale of property.
- e) Reflects the exclusion of the foreign currency transaction gains and losses in the statements of income primarily related to the non-permanent intercompany debt denominated in local currency translated to U.S. dollars.
- f) Represents non-cash adjustments to the Company's LIFO reserves for certain inventories in the U.S. that are valued using the LIFO method, which we believe provides a means of comparison to other companies that may not use the same basis of accounting for inventories.
- g) Reflects consulting fees paid to CCMP and affiliates of INEOS for consulting services that include certain financial advisory and management services. These consulting agreements were terminated upon completion of our IPO on October 3, 2017
- h) Represents the costs related to several transactions that are completed, pending or abandoned and that we believe are not representative of our ongoing business operations.
- i) Includes the impact of restructuring, integration and business optimization expenses which are incremental costs that are not representative of our ongoing business operations.
- j) Represents adjustments for defined benefit pension plan costs in our statement of income. More than two-thirds of our defined benefit pension plan obligations are under defined benefit pension plans that are frozen, and the remaining obligations primarily relate to plans operated in certain of our non-U.S. locations that, pursuant to jurisdictional requirements, cannot be frozen. As such, we do not view such expenses as core to our ongoing business operations.
- k) Represents a non-cash gain on the write-off of the remaining liability under a contractual supply arrangement. As part of the acquisition by Eco Services Operations LLC of substantially all of the assets of Solvay USA Inc.'s sulfuric acid refining 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 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 the 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.
- l) Other costs consist of certain expenses that are not core to our ongoing business operations, including environmental remediation-related costs associated with the legacy operations of our business prior to the Business Combination, capital and franchise taxes, and non-cash asset retirement obligation accretion. Included in this line-item are rounding discrepancies that may arise from rounding from dollars (in thousands) to dollars (in millions).



YOUR CATALYST FOR **POSITIVE CHANGE**