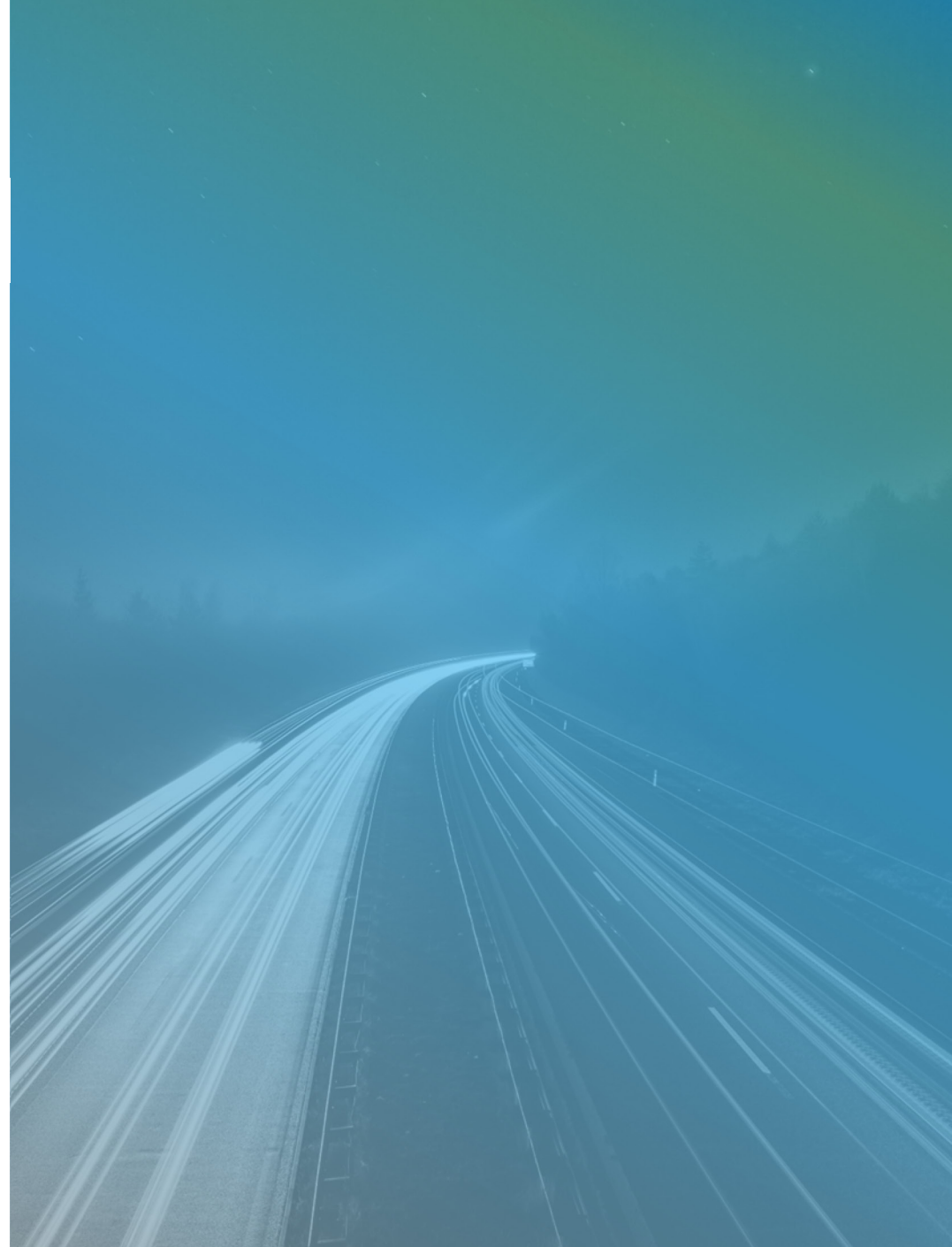




Opening Remarks & Strategy Overview

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

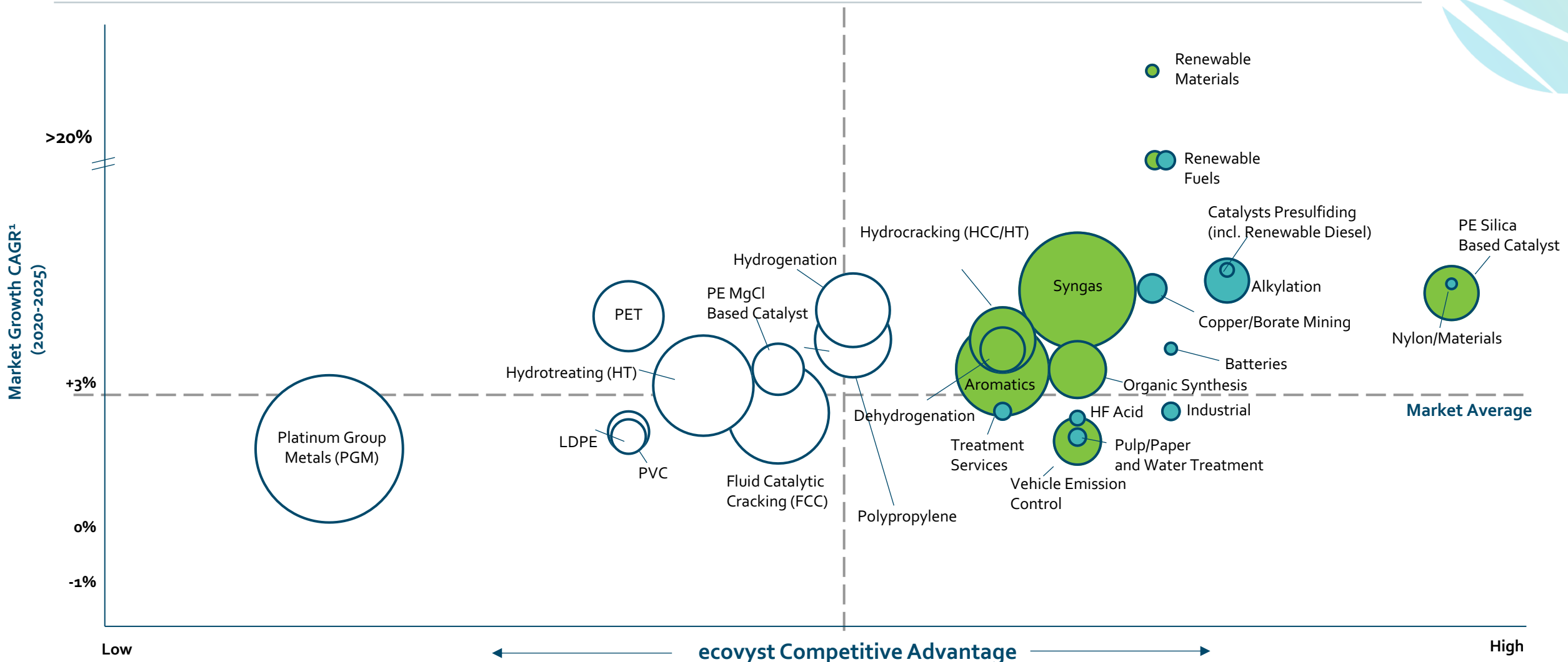


Growing need for environmentally friendly polymers and light-weighting of products

- 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



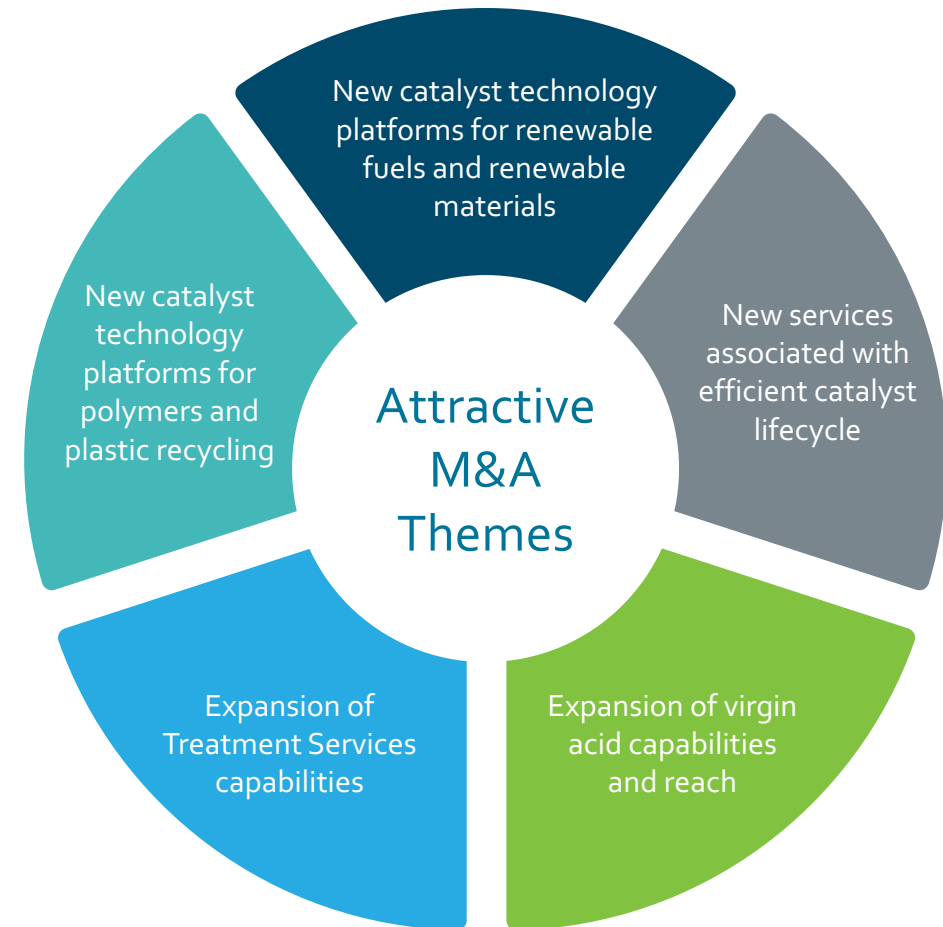
Growth through
balanced innovation



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