



**Accessing what Africa wants through Chemistry
Durban, South Africa**

What You Will See and Hear Today

- **Who we are**
- **Our advantaged portfolio** that can be leveraged to deliver the Africa we want (Climate, Food, Energy, Water)
- **Advancing our ambition** with transparency and accountability
- **Our relationship with NEXUS** with training and recruiting students
- **Next steps** Supporting the establishment of an infrastructure that advances the nexus science center of excellence





DOW OVERVIEW – RICH IN LEGACY, BUILDING IN PURPOSE

How can we work together to solve today's complex challenges?

At Dow, we're guided by our purpose – to use our materials science expertise in collaboration with our partners to help deliver a sustainable future. Our ambition to be the most innovative, customer-centric, inclusive and sustainable materials science company in the world drives best-in-class performance and a culture where new ideas thrive.

Who We Are

A GLOBAL MATERIALS SCIENCE COMPANY

104 manufacturing sites across 31 countries and 12 Innovation Centers in 10 countries on four continents	~37,800 employees	\$56.9B in net sales	\$6.6B in operating EBIT ¹	\$7.5B in cash flow from operations	Sales in ~170 countries
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\$33.6MM Corporate + Foundation + In-kind Invested
851 Grants Delivered Worldwide
623 Partner Organizations
13,801 Dow employees volunteered

Priority Areas	
Advancing Sustainable Solutions	Using Dow products, technology and expertise for social good
Building Inclusive Communities	Partnering to address systemic challenges and barriers
Creating Tomorrow's Innovators	Equipping a future STEM pipeline for the jobs of tomorrow

- **Employees volunteers** help build resilient communities
- **Dow Community Advisory Panels** help guide programs and resources to address greatest community needs

Engaging for Impact

AMBITION To be the most innovative, customer-centric, inclusive and sustainable materials science company in the world	PURPOSE To deliver a sustainable future for the world through our materials science expertise and collaboration with our partners	
GOAL Value growth and best-in-class performance		
OUR VALUES		
Integrity	Respect for People	Protecting Our Planet

GLOBAL SCALE, LOCAL REACH AND COLLABORATIVE INNOVATION



Dow's Path2Zero Project Drives Profitable Growth and Decarbonization

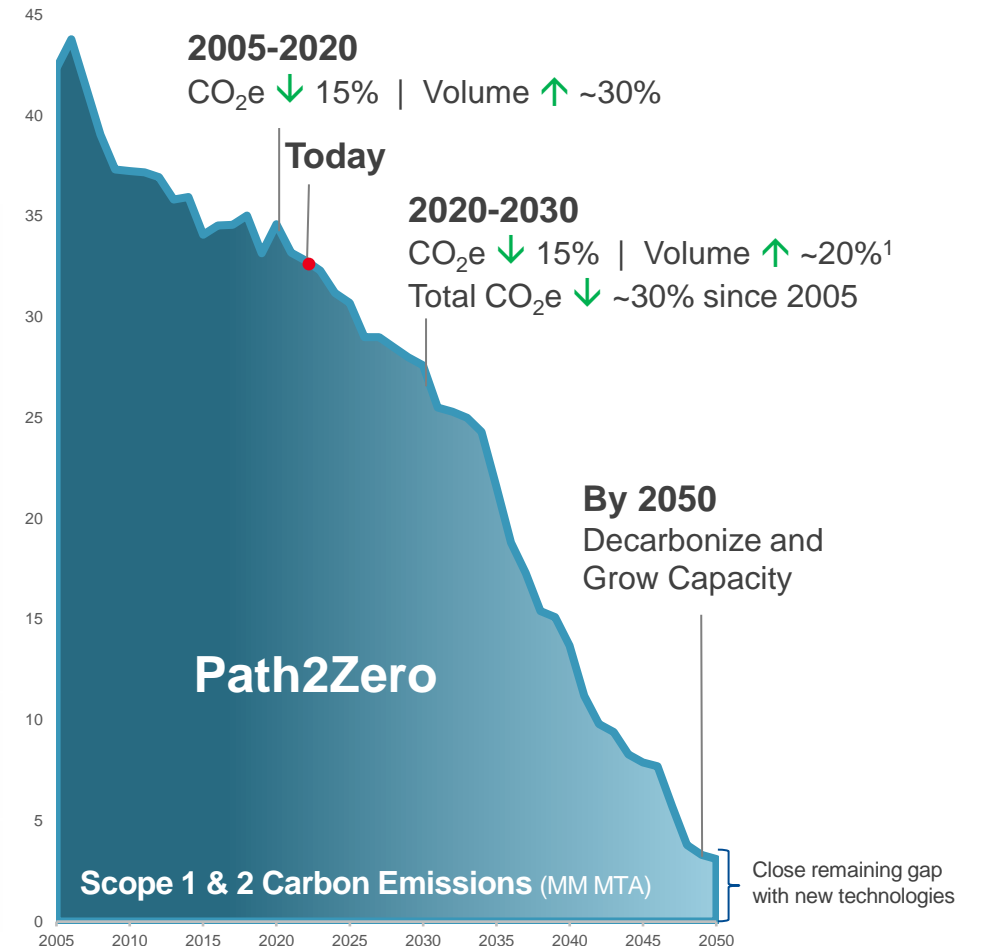
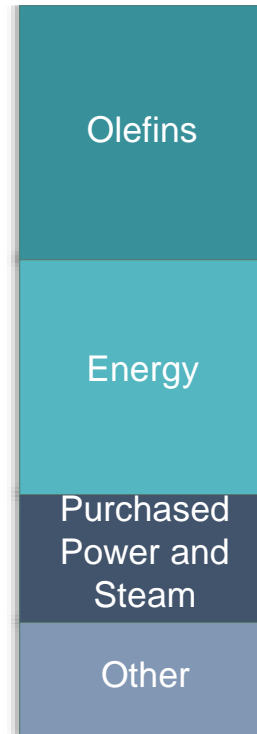
Organic Growth Investments Aligned with Decarbonization Roadmap

- Deliver higher-return, lower-risk, faster-payback growth projects across our portfolio
- Invest prudently in downcycle to leverage lower cost inputs and be ready to capture up-cycle growth
- Derisk our investments through value-add projects that complement Dow's capabilities

Phased Approach to Decarbonize & Grow

- Increased use of clean energy with >1 GW of renewable power
- Phased emissions reduction plans for top 25 manufacturing sites
- Pilot and develop next generation technology, including FCDh, EDH, e-cracking and nuclear energy

Dow Current Emissions



Navigating the Climate and Energy Transition

Uniquely Positioned to Win with Differentiated, Low-GHG-Emissions Portfolio

- Enables a **high-value portfolio of low-emissions products** at differentiated pricing
- **Deepens partnerships** with customers to support their decarbonization journey
- Protects and extends our **feedstock advantage**
- **Maintains optionality** to accelerate where we can capture additional value

Disciplined Organic Growth Investments

- Driving **higher-return, lower-risk, faster-payback** growth projects
- **Investing prudently in downcycle**, to lock in lower cost inputs and be ready to capture up-cycle growth
- **Investing in value-add trends** that complement Dow's capabilities to derisk projects

Our Approach to Decarbonize & Grow



Optimizing our manufacturing facilities and processes for sustainability



Increasing use of clean energy and steam



Investing in next-gen manufacturing technology



Developing low-GHG-emission products and services



Building a value-generating Scope 3 decarbonization pathway

PATH₂ZERO

DECARBONIZE: World's First Net-Zero Scope 1 & 2 Emissions Complex

TRANSFORM THE WASTE: 3MM MTA of Circular and Renewable Solutions

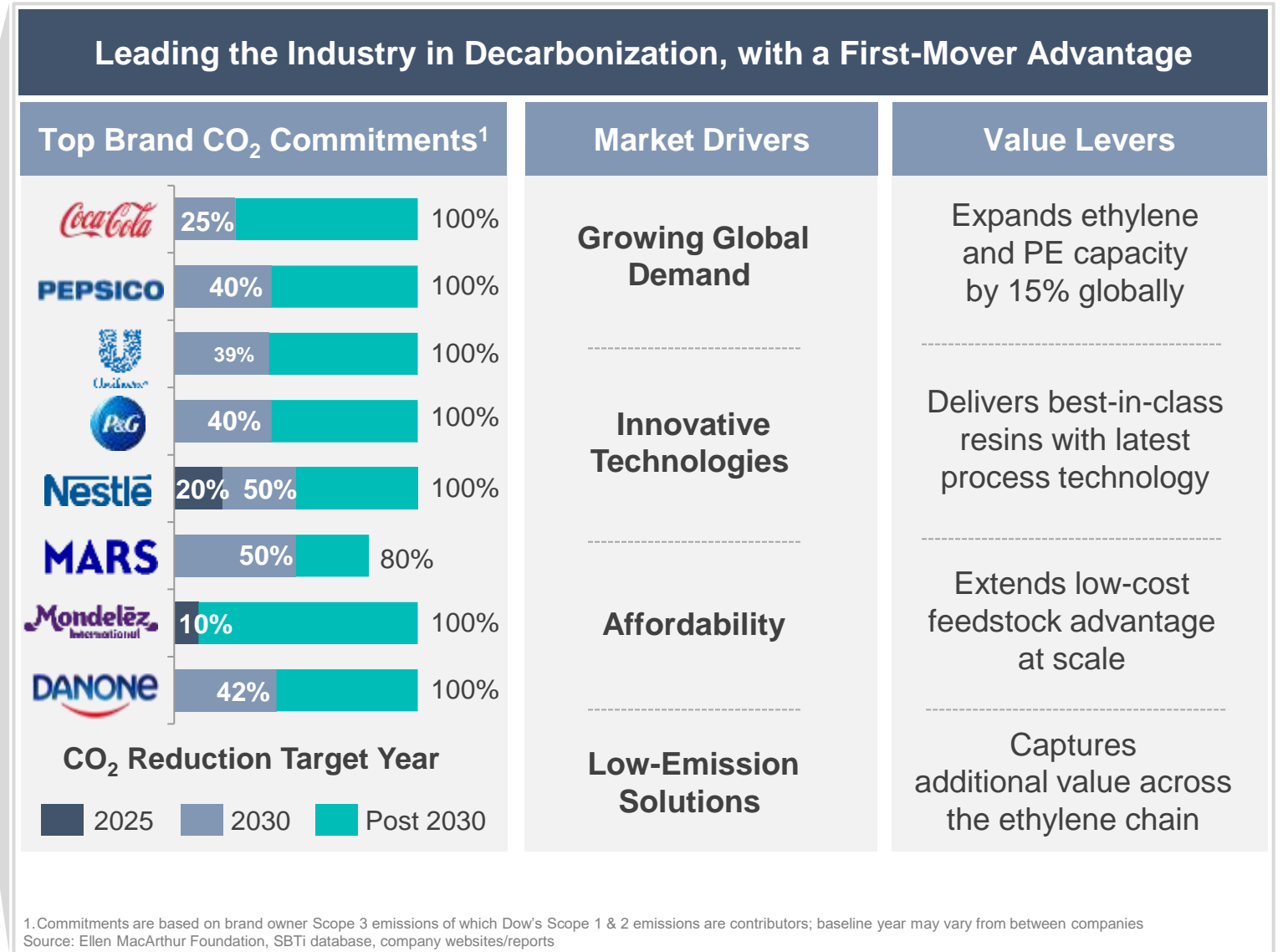
Invest to Grow

Decarbonize

- **Fort Saskatchewan Path2Zero (P2Z)** fully operational by 2030
- **Expands capacity** and extends **low-cost** advantage
- **Capture value upside** by monetizing low-emission solutions, decarbonizing 20% of our global ethylene footprint

Transform the Waste

Deliver Breakthrough Innovation



Energy Transition, Sustainability and Digitalization Drive Earnings Growth

Emerging trends in end-markets growing faster than GDP

Data Center Cooling



~\$15B market by 2027 driven by AI, 5G and cloud
>20% CAGR for Liquid Cooling

DOWFROST™ Fluids

- Reduces power usage by ~30%
- 5-10x benefit from power density increase

EV Batteries



~\$1B addressable market driven by localizing EV battery supply
>15% CAGR

MOBILITYSCIENCE™

Utilizes CO₂ in final product providing an alternative to CO₂ sequestration

Carbon Capture



~\$3B carbon capture solvents market by 2030
>10% CAGR

UCARSOL™ Amines and Related Technology

Early leader in emerging CO₂ capture enabling Blue H₂ and other forms of precombustion

Pharmaceuticals and Consumer Health



~\$3B market by 2027 driven by aging population
>6% CAGR

CARBOWAX™ SENTRY™

Polyethylene glycols are proven osmotic laxative backed by leading consumer brands

Specialty and Sustainable Cleaning



~\$5B addressable market by 2026
>4% CAGR

TERGITOL™ Surfactants

- Safer materials
- Readily biodegradable
- High-performance standards

Enhanced Oil Production



~\$3B enhanced oil recovery additive market
>8% CAGR

ELEVATE™ Additives

- ~20% lower CO₂
- ~30% more oil production efficiency
- ~50% less water usage

Enabled by award-winning innovation and AI/digital solutions



Water & Nature

An aerial photograph showing a two-lane asphalt road with a double yellow line, bordered by a dense green forest on the left and a body of water on the right. A red car is visible on the road. The water is dark blue-green with ripples.

Water: an incredibly precious resource that supports the vitality of our planet.

Water is our **most impactful dependency** on nature.

Only **3%** of the world's water is freshwater and two-thirds is frozen in glaciers or otherwise inaccessible

By the end of this decade, freshwater demand could outstrip supply by **40%**, with severe shortages in water-constrained regions

(Mazzucato, Okonjo-Iweala, Rockström, & Shanmugaratnam, 2023)

Water is fundamental to a sustainable future for all



From human life to wildlife to agriculture and even our climate, virtually every ecosystem on Earth depends on water. It touches every aspect of our lives and links with nearly every United Nations Sustainable Development Goals (UNSDG).



The global economy has a dependency on water and nature. A recent WEF report estimated that more than half of the world's economic output is highly or moderately dependent on nature.

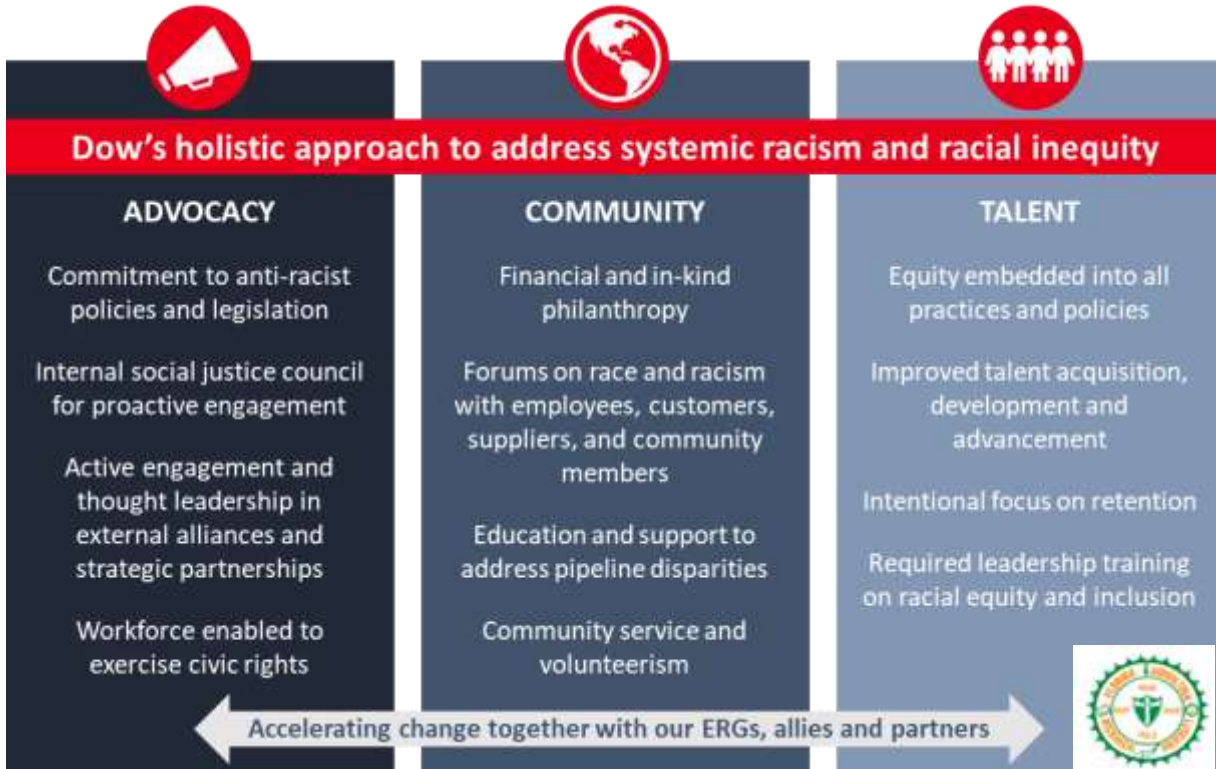


Healthy ecosystems can help sustain or improve the climate. When deprived, these ecosystems go from being highly effective at storing carbon, to contributing to greenhouse gas (GHG) emissions.





Dow ACTs – IMPACT THROUGH ADVOCACY, COMMUNITY, TALENT



TAKING ACTION TO ADVANCE RACIAL EQUITY AND JUSTICE THROUGH DOW ACTS

Launched in 2020, Dow ACTs is our strategic framework designed to address systemic racism and inequality, backed by a \$13 million pledge over five years to help accelerate change. ACT is an acronym for three areas of focus: Advocacy, Community engagement and our own Talent pipeline.

2022 PROGRESS AND ACTIONS

Dow ACTs progress highlights for 2022 include:

Dow's holistic approach to address systemic racism and racial inequity		
ADVOCACY	COMMUNITY	TALENT
<ul style="list-style-type: none"> Commitment to anti-racist policies and legislation Internal social justice council for proactive engagement Active engagement and thought leadership in external alliances and strategic partnerships Workforce enabled to exercise civic rights 	<ul style="list-style-type: none"> Financial and in-kind philanthropy Forums on race and racism with employees, customers, suppliers and community members Education and support to address pipeline disparities Community service and volunteerism 	<ul style="list-style-type: none"> Equity embedded into all practices and policies Improved talent acquisition, development and advancement Intentional focus on retention Required leadership training on racial equity and inclusion
Accelerating change together with our ERGs, allies and partners		
ADVOCACY	COMMUNITY	TALENT
<ul style="list-style-type: none"> Continued partnership with the Congressional Black Caucus Foundation's National Racial Equity Initiative Launched the cross-functional Social Justice Council to monitor inequality matters and advise Dow on our response 	<ul style="list-style-type: none"> Supported the Dow Leadership Academy on the U.S. Gulf Coast and the Dow Treasure Academy in Michigan to provide science, technology, engineering and math (STEM) and leadership training for underrepresented youth Through Dow Promise, 13 nonprofits supporting Black communities received grants totaling \$100,000 Martin Luther King Jr. Day of Service engaged more than 400 employees, family and friends across 30 employee-led service projects 	<ul style="list-style-type: none"> Continued investment in Historically Black Colleges and Universities (HBCUs) to attract, retain and develop Black students and build the STEM talent pipeline Provided scholarships to 20 students attending HBCUs through the Future of STEM Scholars Initiative Implemented Advanced Inclusion Training for all people leaders and HR partners

To accelerate change aligned to this strategic framework, Dow has pledged over **\$10MM** over through 2025

Key Point: Dow ACTs is the originator of our HBCU strategy. As Dow ACTs transitions the HBCU strategy will remain active and part of the Dow talent investment strategy going



OUR RELATIONSHIP WITH FAMU

- Strategic engagement re-established in 2018 as a gold recruiting partner.
- Have recruited over 45 interns and hired 18 graduates.
- Dow has gifted over \$600k to the university in grants, scholarships, classroom projects, and were original supporters of the Nexus.
- Dow has gifted over \$100k in research and application equipment to labs and groups.
- Sponsored FAMU's new astro turf field in 2018.
- We collaborate with FAMU on government grant applications, research papers, and explore opportunities to support funded research.
- We sit on the FAMU Industry Cluster and various college advisory boards.

NEXT STEPS SUPPORTING THE ESTABLISHMENT OF AN
INFRASTRUCTURE THAT ADVANCES THE NEXUS SCIENCE
CENTER OF EXCELLENCE

- Dow Innovation Internship Program (DIIP) - <https://corporate.dow.com/en-us/careers/internships.html>
- Dow HBCU Strategy
- NEXUS Center of Excellence for other part of Africa





Seek

Together™