



World Chemical Forum (WCF)
Circular Plastics Session

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September 2023

Overview (2022 data)

NUMBER OF EMPLOYEES

2,500

Worldwide

ANNUAL SALES

USD 4.4 Billion

PRODUCTS

- Ethylene & Polyethylene
- rPE and ready-to-recycle resins
- Plastomer Sealant Resins
- Chemical Co-Products

COMMUNITY GIVING

USD 1.6 Million

2,500 hours



Our Purpose

We are Reshaping Plastics for a
Better, More Sustainable World



By delivering innovative solutions to make everyday life healthier and safer



By being a catalyst for a low-carbon, zero-plastic-waste future



By unlocking the full potential of our people and partnerships

Our world continues to

Move Forward

Circularity

Industry and consumers are placing higher value on the circular economy, seeking out products that can be recycled, reused, and reimaged.

Decarbonization

Reducing and eliminating emissions is at the forefront of sustainability leadership and ensuring future generations can thrive.

Partnership

More than ever, collaboration between industry, government, and across the value chain will be critical for innovation and achieving our sustainability goals.



We aspire to be the
**Leading
Sustainable
Polyethylene
Producer**
in North America

TOP 30
Canadian company by value

USD \$2-4B investment to grow NOVA's business to become a Top 30 company in Canada by value to continue innovating and delivering on the needs of our customers.

30%
recycled content* as share
of total polyethylene sales

An industry leading ambition of 30% recycled content as a share of NOVA's polyethylene sales to grow the plastics circular economy and solidify the market for recycled polyethylene.

30%
CO₂ emissions reduction**

Be at the forefront of industry decarbonization and the pathway to net-zero*** by 2050 by ambitiously reducing our emissions.

* On a volume basis.

** Scope 1 and 2 emissions, under operational control¹, by 2030, 2020 baseline.

*** Scope 1 and 2 emissions.

¹ Facilities operated by NOVA Chemicals regardless of financial ownership, including operated ethylene and polyethylene assets and associated site-based infrastructure, and owned pipelines and office buildings.

Rebalance our portfolio to incorporate

30% Recycled Materials by 2030



A new portfolio of recycled polyethylene focused on lower-emission, recycled solutions that will help reshape a better, more sustainable world

Mechanical Recycling

- High performing mechanically recycled polyethylene
- Leader in product and applications development to create circularity for customers, brands, and retailers using recycled resins
- Strategic plan implemented to deliver 30% of our sales through rPE in this decade
- Collaborative and strategic customer partnerships

Advanced Recycling

- Converting used, non-recyclable and non-compostable plastics to feedstocks for virgin-grade plastics through chemical recycling pilot with Enerkem
- Exploring other proven technologies

Designing for Better Recyclability

- Growing portfolio of recyclable resins designed to be used in a variety of demanding applications
- Packaging designs that move multi-material structures to mono-material structures that incorporate rPE
- Broad and significant relationships throughout the value chain to facilitate closed loop packaging solutions

NOVA Chemicals' Circular Solutions announces First Mechanical Recycling Facility

The high-quality polyethylene from this facility will help customers achieve recycled content goals by enabling them to create fully recyclable products and packaging.



Located in Connersville, Indiana, the facility is **strategically located near five metropolitan areas** — Indianapolis, IN; Cincinnati and Columbus, OH; Louisville, KY; and Chicago, IL — that will provide an abundance of post-consumer plastics to be used as recycling feedstock. The location also offers rail access, enabling distribution of NOVA rPE to customers.

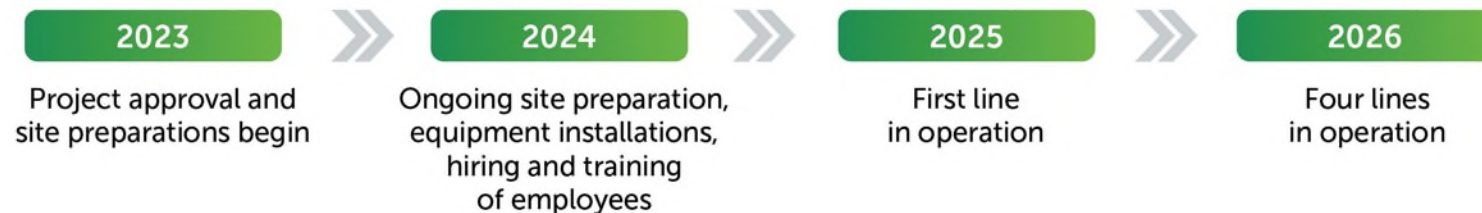
Plastic films collected from retail, distribution centers and consumer drop-off locations will be processed into pellets and sold as NOVA Chemicals' SYNDIGO™ rPE (rLLDPE).

Estimated production of 113M lbs. by 2026.

SYNDIGO™
recycled polyethylene BY NOVA CHEMICALS

NOVA Circular Solutions will collaborate with Novolex® to have the facility **operational by 2025**. Novolex is a leading developer of packaging products with 15 years' experience in operating plastic film recycling facilities.

Timeline:



Shape and sustain a

Low-Carbon, Zero-Plastic-Waste Future

Together with leading the transition to the circular economy, NOVA is committed to:

Efficiency Improvements — build on strong progress to date through improving asset efficiencies, equipment electrification, and renewable power technologies

Exploring Clean Technologies — renewable power, clean hydrogen as a low carbon fuel source and Carbon Capture, Utilization, and Storage (CCUS)

New Technologies— innovate and seek new solutions to reduce and eliminate production-based emissions through owned-technology like our proprietary Low Emissions Ethylene Process (LEEP™) technology

Disciplined Value Creation

Financial Discipline and Operational Excellence

- Disciplined capital allocation across existing assets and new strategies, allocating capital to create the most value
- First quartile safety performance
- First quartile reliability, enabled by our people and by building sophisticated digital capabilities to enhance on-stream time

Creating Value Through Sustainability Leadership

- Strong champion of Responsible Care® ethics and principles
- A new portfolio of rPE for use in premium applications and a focus on lower-emissions to help reshape a better, more sustainable world
- Significant and long-term relationships with sophisticated producers to supply 2,300M lbs. of rPE
- Expand product lines for new and fast-growing sustainability-focused end markets

Innovation

- Continue to leverage our proprietary Advanced SCLAIRTECH™ technology platform to deliver high performance resins for our customers' needs
- Achieve leadership in our target markets and be the first-to-market with several new applications
- Develop new sustainability solutions, including through our Low Emissions Ethylene Process (LEEP™) technology

This document contains forward-looking statements. By their nature, forward-looking statements require NOVA Chemicals to make assumptions and are subject to inherent risks and uncertainties. NOVA Chemicals' forward-looking statements are expressly qualified in their entirety by this cautionary statement. In addition, the forward-looking statements are made only as of the date of this document, and except as required by applicable law, NOVA Chemicals undertakes no obligation to update the forward-looking statements to reflect new information, subsequent events or otherwise.

Statements in this document as to future aspirations, ambitions or goals, including any projections or plans to reduce emissions or emissions intensity, and projections or plans to increased recycled polyethylene or in respect of circularity, to increase the size, value or ranking of NOVA Chemicals, or in regards to any investments or investment amounts, are forward-looking statements. In addition, any roadmaps related to the foregoing represent forward-looking statements as well. Any actual future results could vary depending on NOVA Chemicals' ability to execute on a timely and successful basis, on policy and consumer support, changes in laws and regulations, unforeseen difficulties, and the outcome of research efforts or technology developments.

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