



Transforming Plastic for
a Cleaner World



WHAT SETS US APART



PLASTIC CONVERSION TO PRODUCT

- Certified Through ISCC Audit
- 50% improvement in LCA when compared with virgin plastic production



GLOBAL SCALABILITY

- Projected 4,500 KTA by 2030
- Lummus designed, modular & scalable plants

WORLD'S #1 TECHNOLOGY PARTNER



- Exclusive **10-YEAR** Lummus/New Hope JV
- **110+** Years of Experience
- **3,400** Patents (multiple with New Hope)
- **2,400** Licensed operating units
- **43** Technologies brought to commercial-scale in past 17 years
- **130** Technologies licensed
- Lummus named global Hydrocarbon Technology Licensor of the year in 2022

LUMMUS NAMED LICENSOR OF THE YEAR

“October 14, 2022 – Lummus Technology, a global provider of process technologies and value-driven energy solutions, announced that it has won the HP Award from Hydrocarbon Processing for Licensor of the Year.”

PATH TO NEW HOPE

LUMMUS CONDUCTED A GLOBAL SEARCH FOR THE WORLD'S LEADING PYROLYSIS TECHNOLOGY

25+ COMPANIES

Lummus performed world-wide search of pyrolysis companies

TOP 10 → FINAL 4

In-depth research on top10 site visits and management interviews with final 4

10-YEAR EXCLUSIVE JV



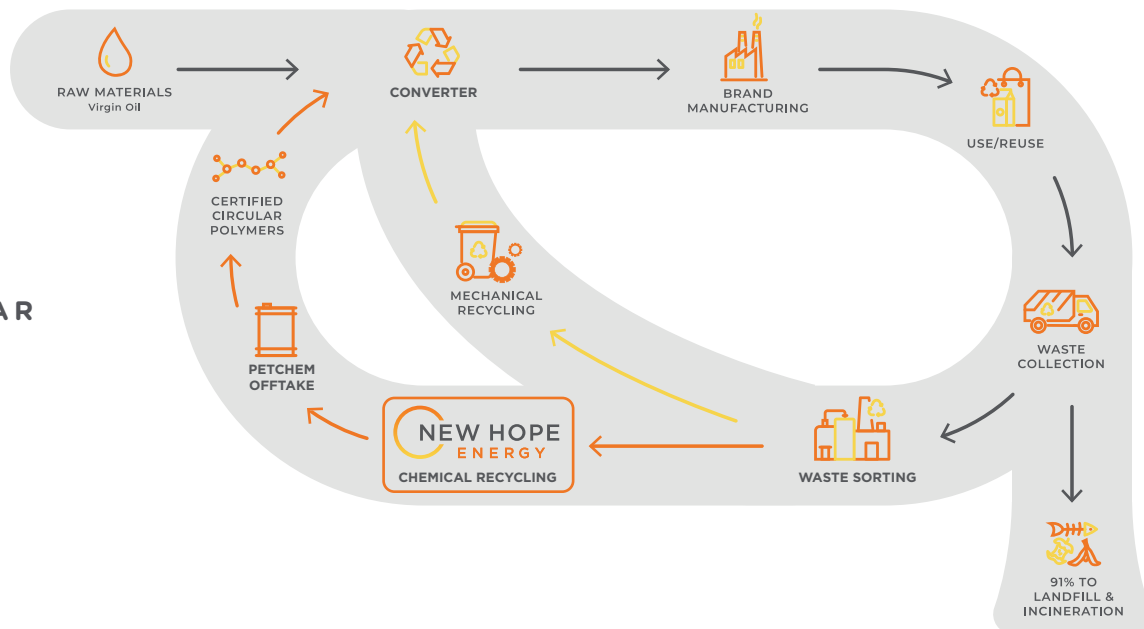
RESEARCH CRITERIA

Patent holder?
Commercialized?
Continuous or batch?
Technology scalable?
Current plant size?

NEW HOPE'S 4 KEY DIFFERENTIATORS

Superior Py Oil Quality
Commercial Scale plant
Technology: Pitch vs. Char
Innovative culture

OUR ROLE IN THE CIRCULAR ECONOMY



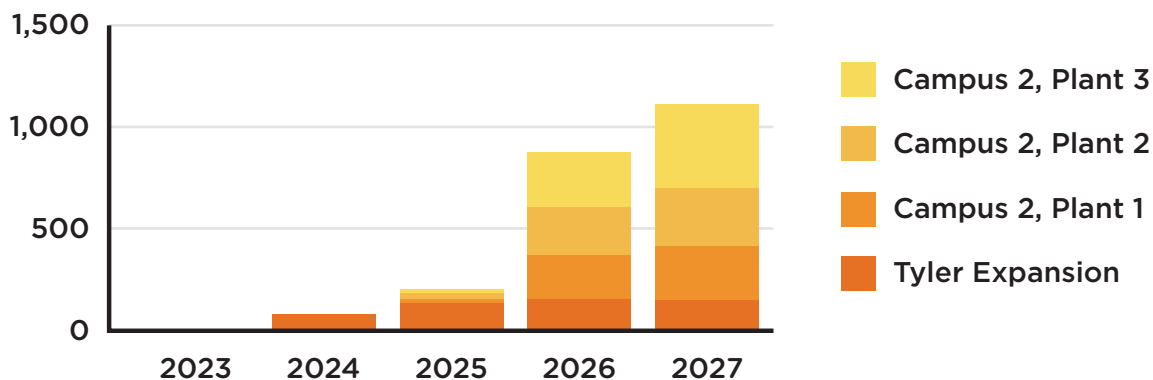
MECHANICAL RECYCLING

- Narrow range of acceptable plastics
- Very restrictive pre-sorting for color (50-100 PPM) and contaminants
- Very difficult to achieve food-grade
- Properties degrade after 2-3 recycling processes
- Projected annual (CAGR) of 50.2% through 2030

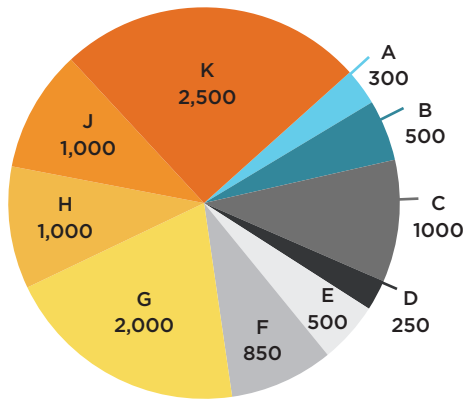
CHEMICAL RECYCLING

- 51% of Plastic Waste stream is acceptable
 - Laminated films
 - Flexible packaging, shopping bags
 - Rigid piping
 - Injection molding: sprues, runners, gates
- Wide range of colors and contaminants (5,000 - 10,000 PPM) are acceptable
- Food-grade achievable by returning to molecular level
- Unlimited life-cycles (returning to molecular level)
- Projected annual (CAGR) of 182% through 2030

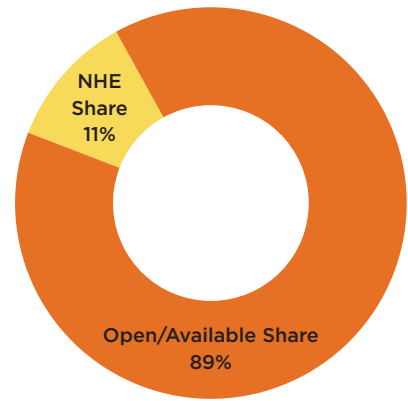
NHE BUILD-PLAN (TYLER + CAMPUS 2) OUTPUT IN KTA



NHE OFF-TAKER SERVED MARKET SHARE



ANNOUNCED OFF-TAKER COMMITMENTS
(2030 = 9,900 KTA)



NHE BUILD PLAN



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OUR PARTNERS



PIPER | SANDLER

Questions?
Scan the QR code to connect.

