



MACROCYCLE

CIRCULAR PLASTICS, ZERO CARBON

Seed Stage Slide Deck

By MacroCycle Leadership Team

Confidential with our partners

THE *PLASTIC CRISIS* AFFECTS US ALL...



85%

of all plastic globally ends
up in landfills, oceans,
or burned



6%

of global CO₂
from plastic
production & incineration

...AND IS GETTING *WORSE*.



\$700B

global plastics
market size
in 2024



\$1T

global plastics
market size
in 2031



MECHANICAL RECYCLING CANNOT UPCYCLE OR REMOVE CONTAMINANTS



CUSTOMER FOCUS

QUALITY



Non-Virgin Quality



PRICE

Discounted

FINANCIAL FOCUS

CONTRIBUTION MARGINS



20-30%



CAPEX

\$3,000/Ton

PET Plastic Quality



= High



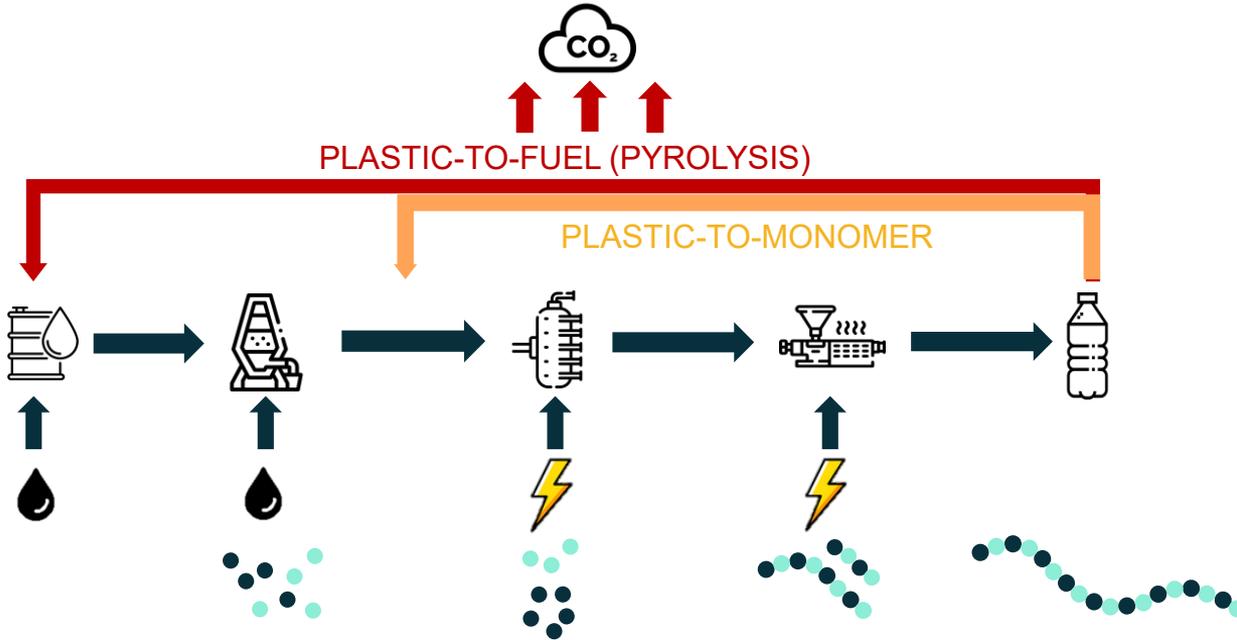
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= Low



ADVANCED RECYCLING IS COMPLEX AND EXPENSIVE



CUSTOMER FOCUS

✓ **QUALITY**
Virgin Quality

✗ **PRICE**
Green premium

FINANCIAL FOCUS

✗ **CONTRIBUTION MARGINS**
20-30%

✗ **CAPEX**
\$10,000/Ton

PET Plastic Quality

 = High

 = Medium

 = Low

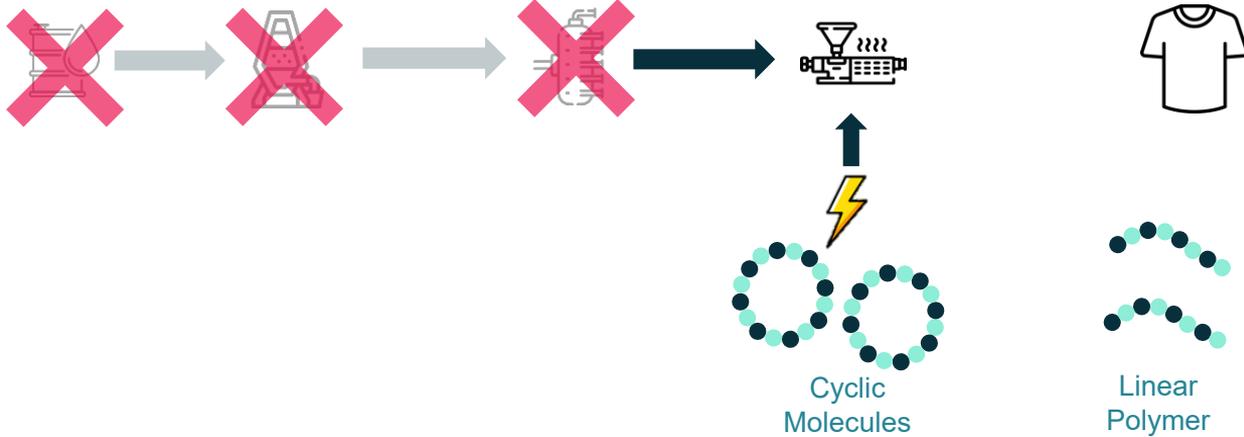
OUR SOLVOGENESIS™ PROCESS RESOLVES INDUSTRY PAIN POINTS

EVERYONE'S BREAKING BONDS.
We're making bonds.

CUSTOMER FOCUS



FINANCIAL FOCUS



PET Plastic Quality



= High



= Medium



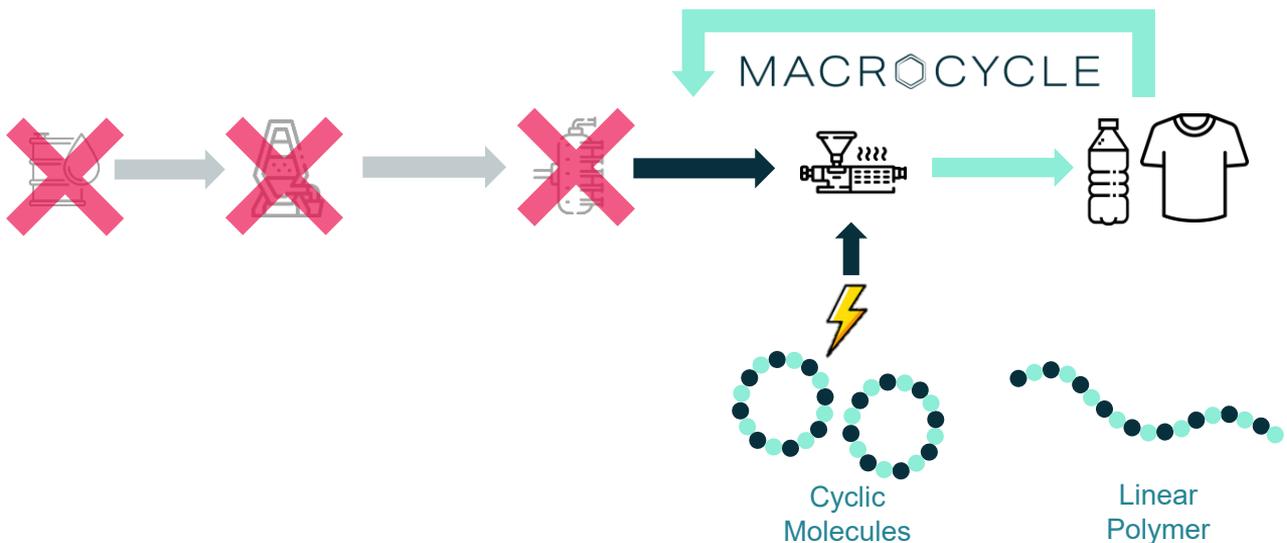
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OUR PATENTED SOLVOGENESIS™ PROCESS RESOLVES INDUSTRY PAIN POINTS

EVERYONE'S BREAKING BONDS.

We're making bonds.



CUSTOMER FOCUS

✓ **QUALITY**
Virgin Quality

✓ **PRICE**
Market Rate

FINANCIAL FOCUS

✓ **CONTRIBUTION MARGINS**
65-75%

✓ **CAPEX**
\$2,000/Ton

PET Plastic Quality



= High

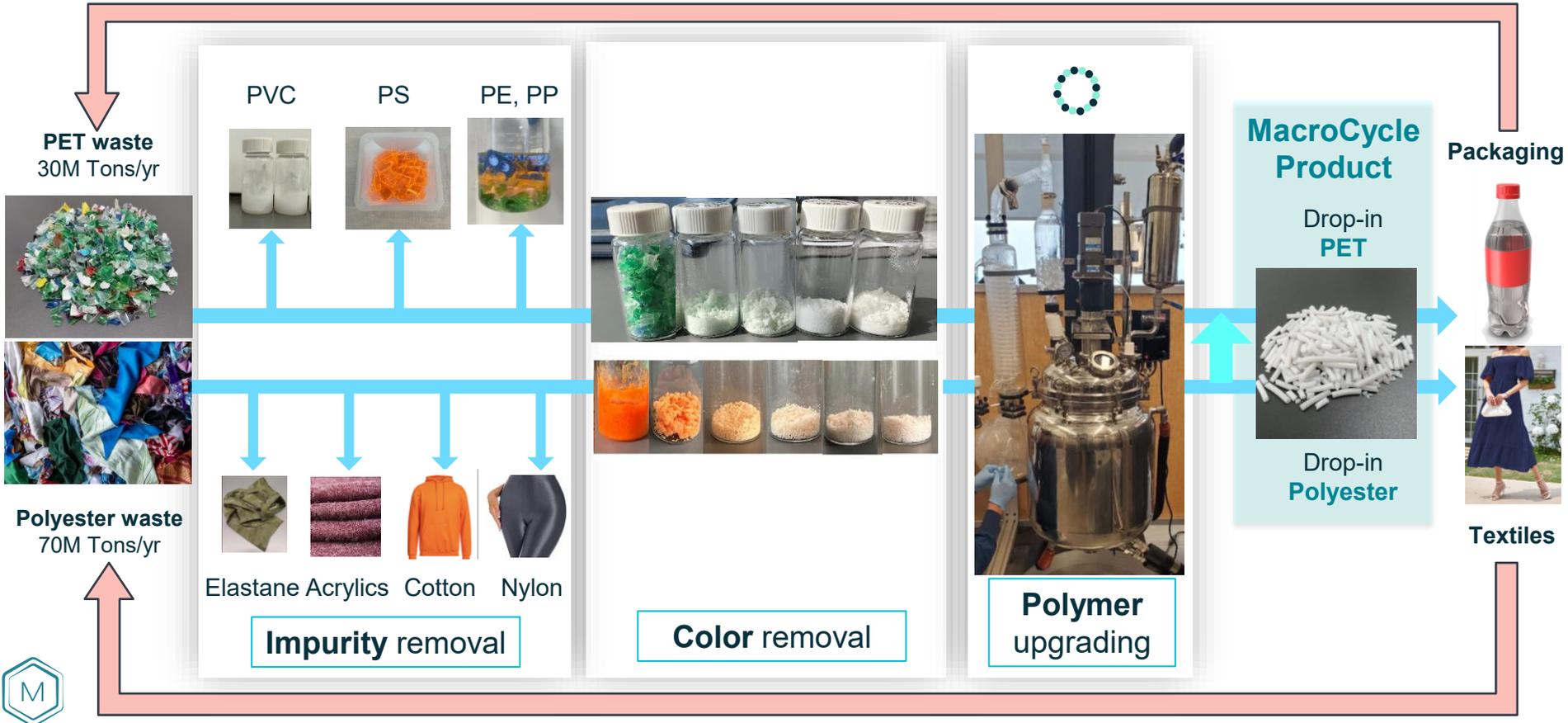


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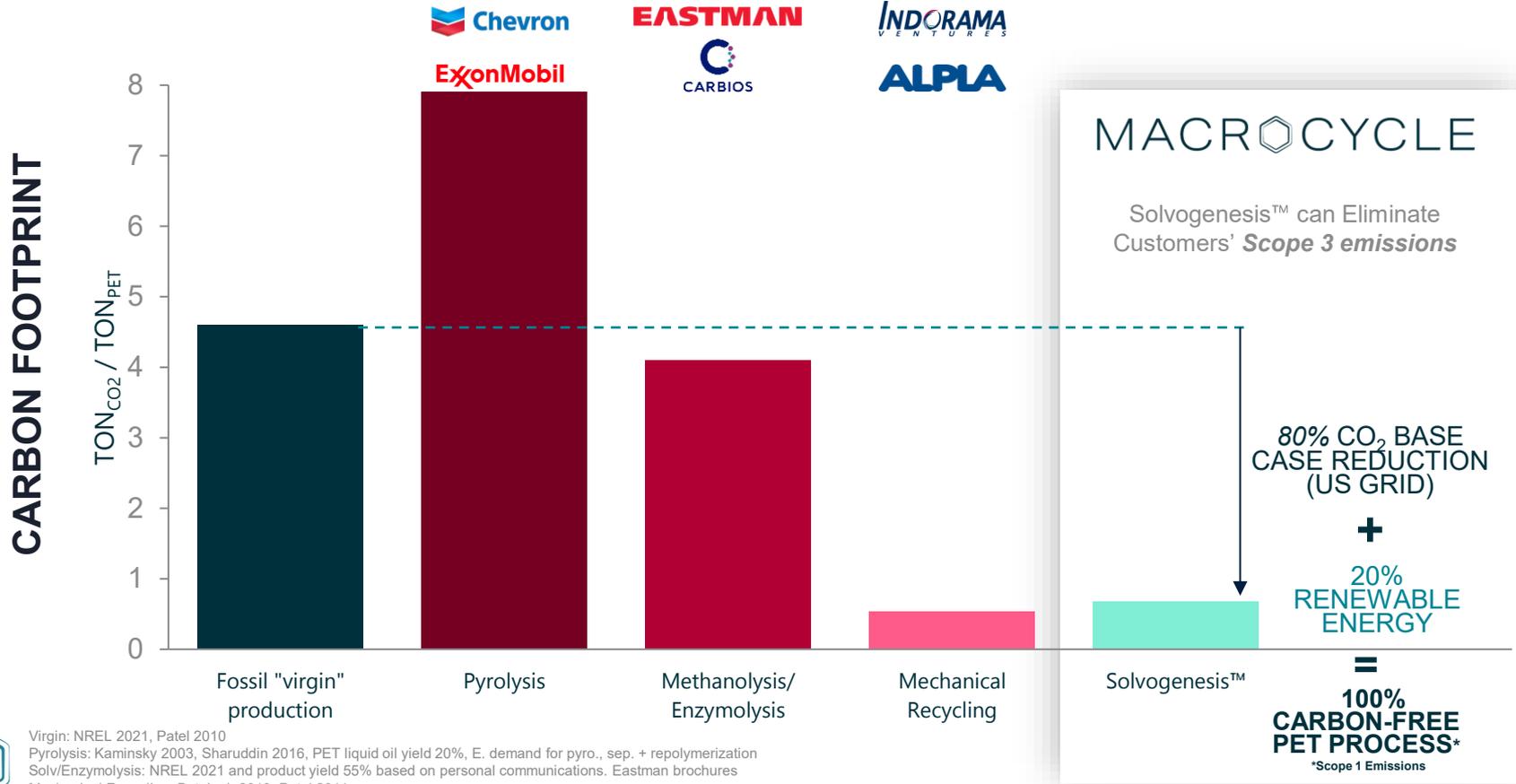


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SOLVOGENESIS™ UPCYCLES WASTE TO VALUE



MACROCYCLE WILL ELIMINATE PET'S CARBON FOOTPRINT & REDUCE ENERGY REQUIREMENTS



ExxonMobil

EASTMAN



INDORAMA
VENTURES

ALPLA

Virgin: NREL 2021, Patel 2010

Pyrolysis: Kaminsky 2003, Sharuddin 2016, PET liquid oil yield 20%, E. demand for pyro., sep. + repolymerization

Solv/Enzymolysis: NREL 2021 and product yield 55% based on personal communications. Eastman brochures

Mechanical Recycling: Bataineh 2019, Patel 2011,

MACROCYCLE CONTINUES TO SCALE RAPIDLY



Lab Scale 0.5 L
2023
TRL4



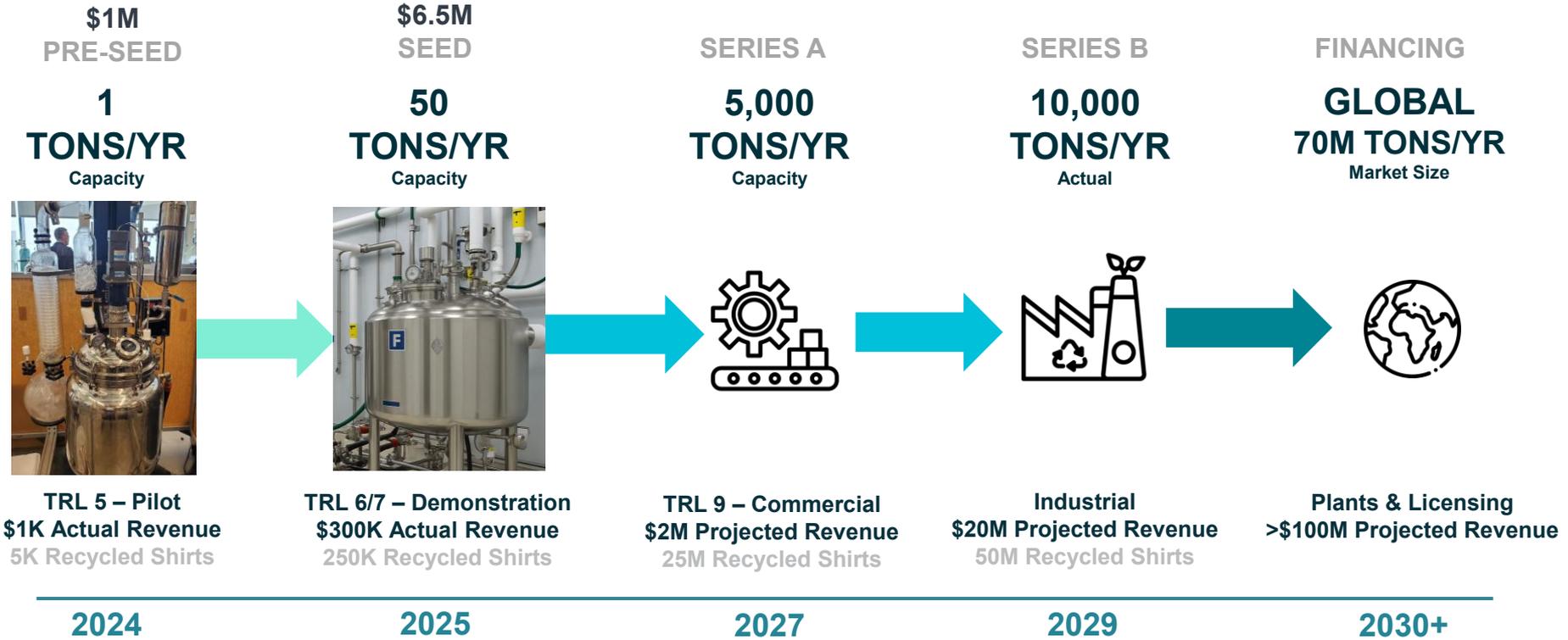
Pilot Reactor 50 L
2024
TRL5



Demo Reactor 1,000 L
2025
TRL6-7



RAPID LOW-CAPEX SCALING TO MEET MASSIVE MARKET DEMAND



STRONG FOUNDING, TECHNICAL & BUSINESS TEAMS SCALING UP MACROCYCLE

FOUNDING TEAM



Stewart Pena Feliz
Co-Founder & CEO



BUSINESS



Bronte McGarrah
Head of Partnerships



Sharon Bort
Operations Manager



ENGINEERING



Kyle Sherry
Principal Process Engineer



R&D TEAM



Dr. Jan Rosenboom
Co-Founder & CTO



Dr. Edoardo Terreni
Textile
Engineer



Dr. Eam Feinberg
Packaging
Engineer



Dr. Andrés Focil
Senior Pilot
Engineer



Dr. Ali Nebipasagil
Senior Polymer
Chemist



Get in touch

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*Thank you to
Our Partners*



Breakthrough Energy
Fellows



PLUGANDPLAY



CLEAN ENERGY
VENTURES



Cleantech
Group



KdT Ventures

MACROCYCLE CHEMISTRY

