ReSource

Chemicals from CO_2. Sustainably.

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Plastics Production Responsible for 4% GHG Emission

2015

- Over 400 Mt production
- 8% of global oil and gas
- 300 Mt waste generation

2050

- 4x production
- 4x $GtCO_2e$ emission
- 12 Gt in cumulative waste

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Sci. Adv. 3(7), *1-5* (2017)
Nat. Clim. Chang. 9, 374–378 (2019)

It's Possible to Have Sustainability, Circularity AND Performance

PEF: The Sleeping Giant

Biobased Material

Attractive End-of-Life Options

Outperforms Incumbent Fossil Plastics

The properties of PEF have been established over decades of research in industry and academia

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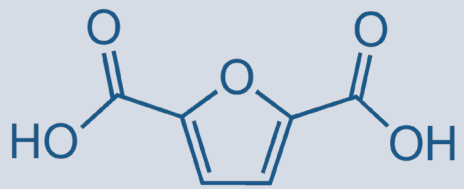
The Barrier to Commercializing PEF is Making FDCA

PEF components

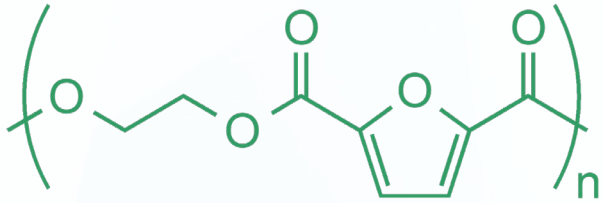


FDCA

+

Ethylene Glycol
(already available)

PEF



ReSource has proprietary chemical technology to make ***FDCA at low cost*** using a radically simplified process

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Total Market Opportunity for FDCA Goes Well Beyond PEF

$100B market for PEF
in packaging and textiles

A variety of uses for FDCA in other **polymers and materials**

- Cosmetics
- Paints, coatings, and adhesives
- Non-toxic plasticizers
- Biodegradable polymers
- Polyamides
- Polyurethanes

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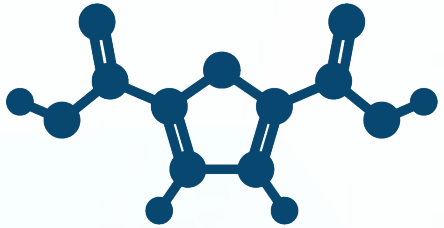
Avantium IPO Prospectus (2017)

Our Technology Dramatically Reduces Process Complexity

Competitors' Processes

Food



FDCA

PEF

- Many steps, low yields
- Side products & Challenging purification
- **Can't meet necessary price point**

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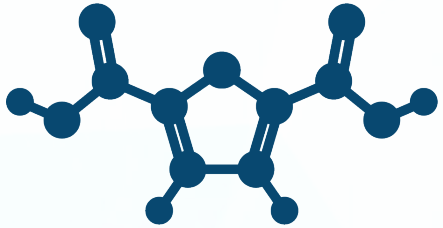

FDCA

PEF

ReSource Process

CO_2

Inedible Biomass

- ✓ Reduces step count by 70%
- ✓ High yields
- ✓ Lowers FDCA Cost by >80%
- ✓ Opportunity to save >250 Mt CO_2e/yr

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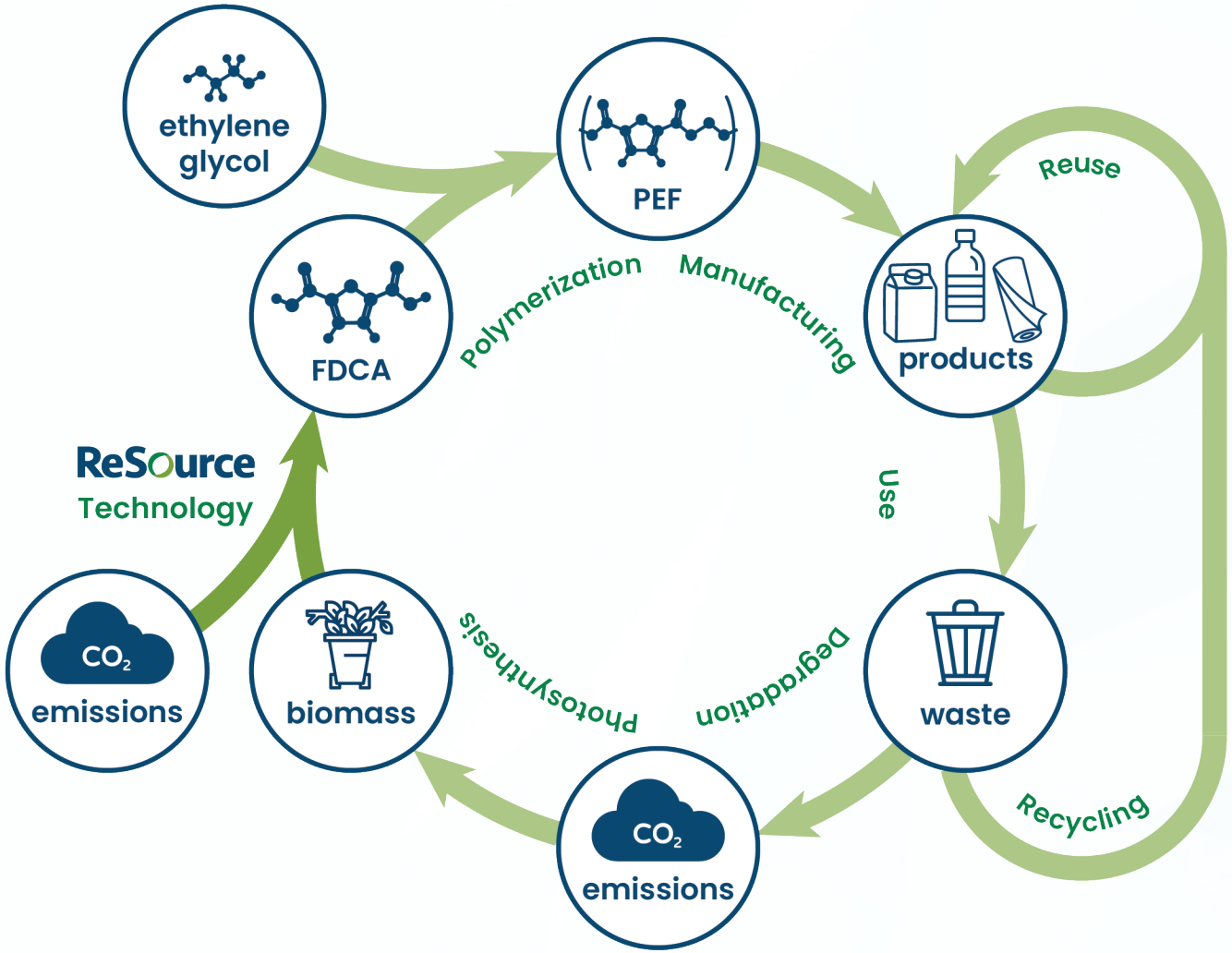
We are Building the New Circular, Robust & Low-Carbon Plastics Economy



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