



IPER Fast Pitch | Origin Overview

The world's leading carbon negative materials company

Jan 2024

Forward looking statements and disclaimers

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FINANCIAL INFORMATION; NON-GAAP FINANCIAL MEASURES

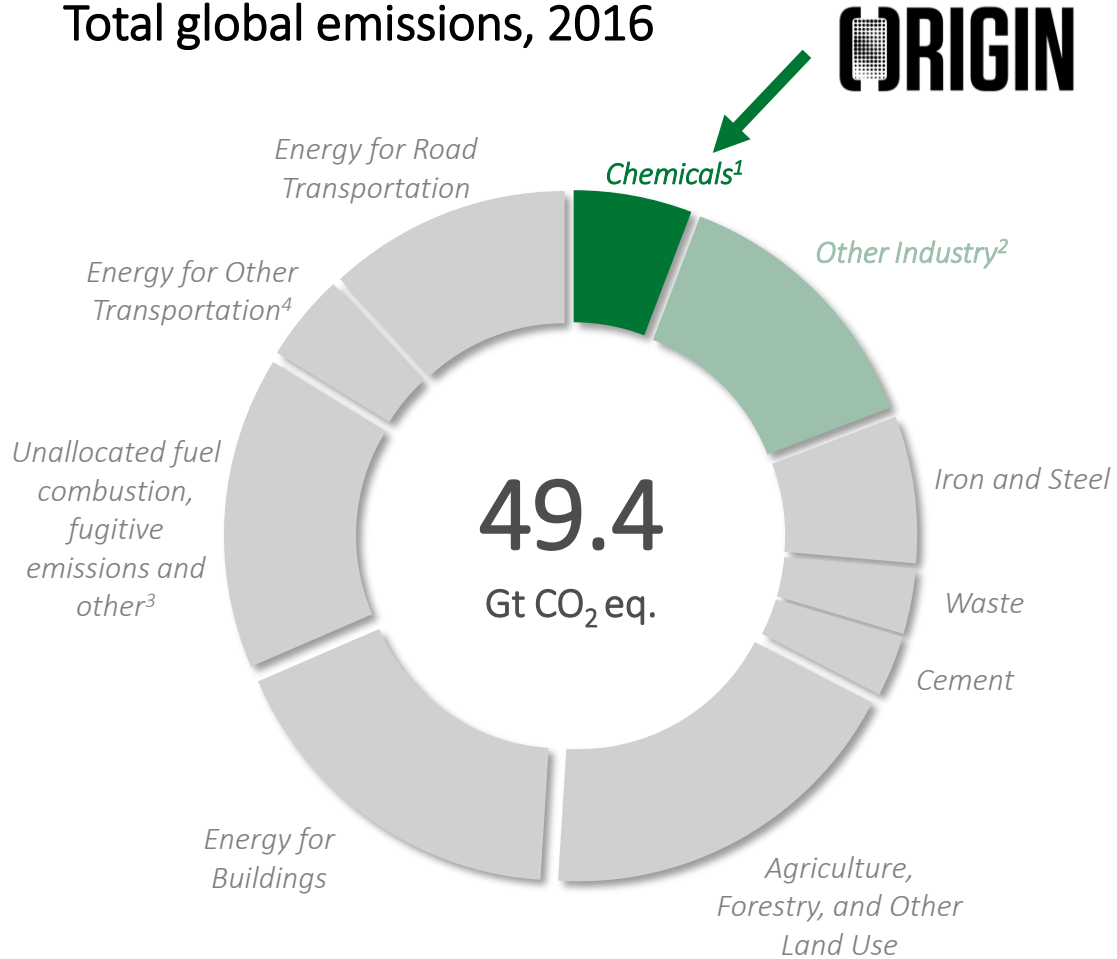
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Nearly half of all global emissions come from making products

Total global emissions, 2016



Origin's mission is to enable the world's transition to sustainable materials

Fossil-based



10.6Mn

Daily barrels of oil consumed by the chemicals market

Sustainable-based



<1%

Of annually available 900Mn tons of forest residue and wood waste

Emitting



2.78kg

Carbon emissions per kg of fossil-based PET produced

Avoiding



>100%

Carbon reduction for Origin's PET vs. fossil-based PET

The Origin platform can replace oil as the foundational feedstock for the materials economy

1. Includes energy-related emissions from the manufacturing of chemicals as well as direct industrial process. 2. Includes energy-related emissions in mining and quarrying, construction, textiles, machinery, food and tobacco, paper & pulp and other industries. 3. Includes energy-related emissions from the use of machinery in agriculture and fishing. 4. Includes energy-related emissions in aviation, shipping, rail and pipeline transportation.

Source: Origin Materials estimates, Climate Watch, the World Resources Institute (2020), ourworldindata.org.

As previously reported on a Rule 425 filing of Artius Acquisition, Inc. dated April 19, 2021.

Origin 1 platform development

Origin's first plant will play a key application development role including exploring additional high-value products

Strategic asset



Intermediate streams

“CMF”
5-Chloro-methyl-furfural

“HTC”
Hydrothermal carbon

“Oils & Extractives”

Products being explored or qualified (JDAs, sample production)

Para-xylene
and Bio-PET

FDCA

Epoxies and
Resins

Surfactants

Sustainable
Carbon Black

Bio-asphalt

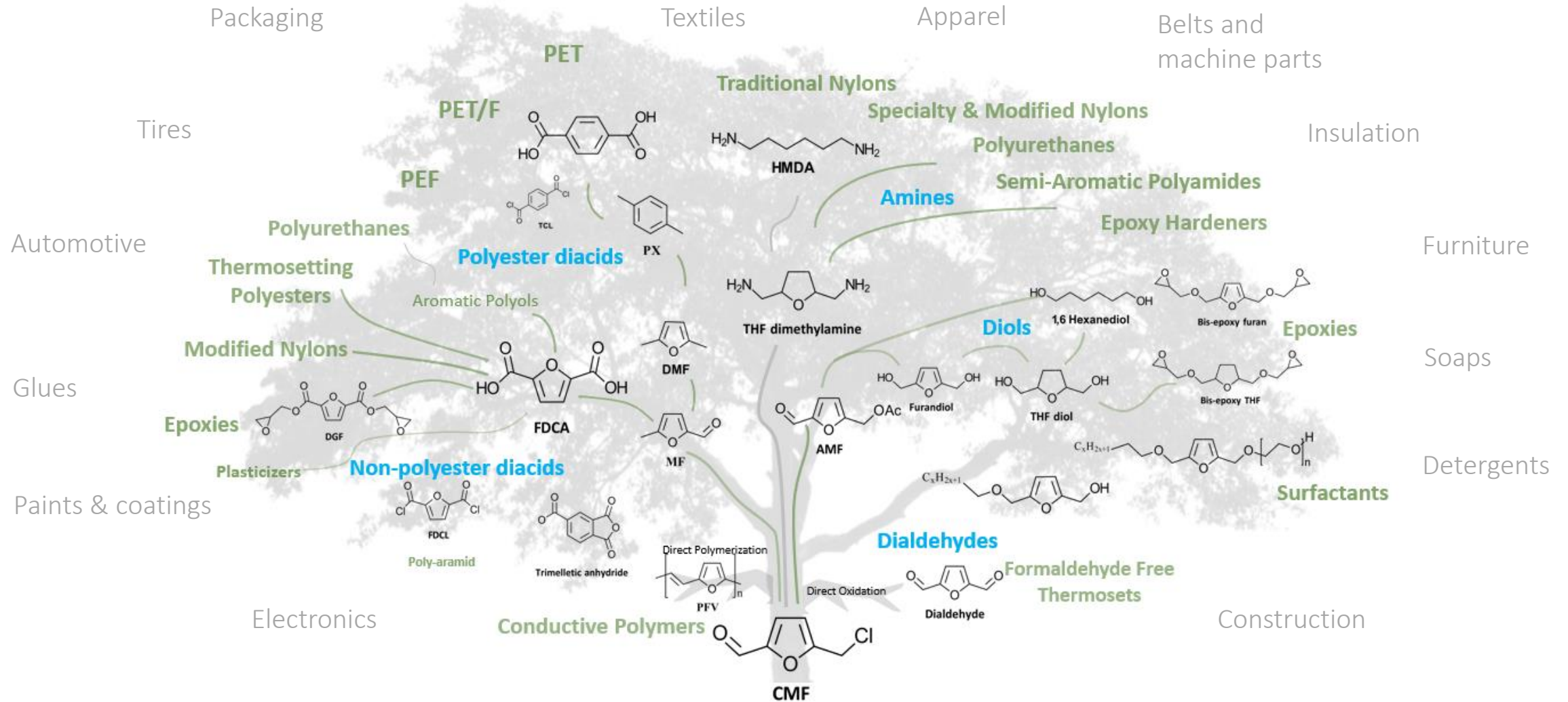
Fuel Pellets

Biofuel

Bio-Solvents

The Origin Platform – CMF application breadth is expansive

Competitive production cost, versatility, and differentiated performance unlock new pathways for making products



1. Markets, shown in gray type, are included to represent indicative applications and are not exhaustive. As previously reported in the Q2 2023 Earnings Presentation of Origin Materials, Inc. dated August 9, 2023.

The superior performance of Origin's carbon black derives from HTC and the proprietary core chemical process by which Origin creates it (1 of 2)

HTC is derived from wood residues reacted in Origin's core process

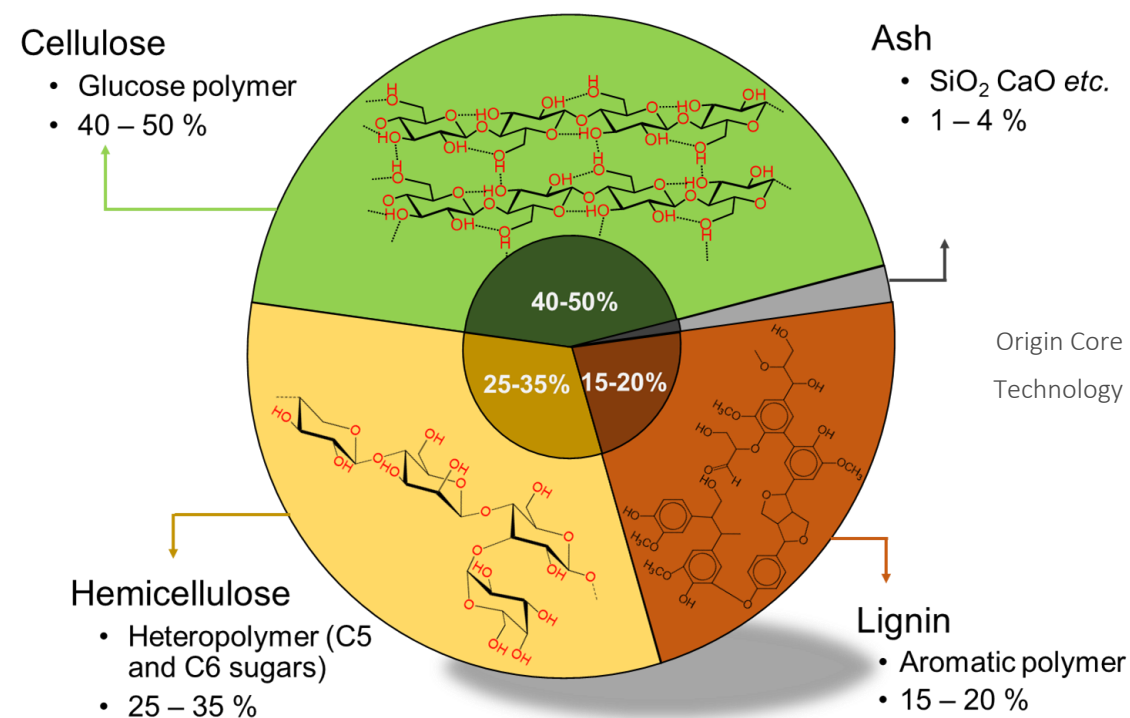
During conversion of biomass to HTC:

- Cellulose and components of hemicellulose convert to CMF
- Lignin and some degraded CMF form HTC

HTC is a unique material

- Resulting from the interaction of CMF and lignin in Origin's core process

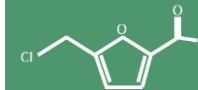
Wood residue biopolymers¹



Intermediates

"CMF"

5-Chloro-methyl-furfural



"HTC"

Hydrothermal Carbon

C

"Oils & Extractives"

Origin Core Technology



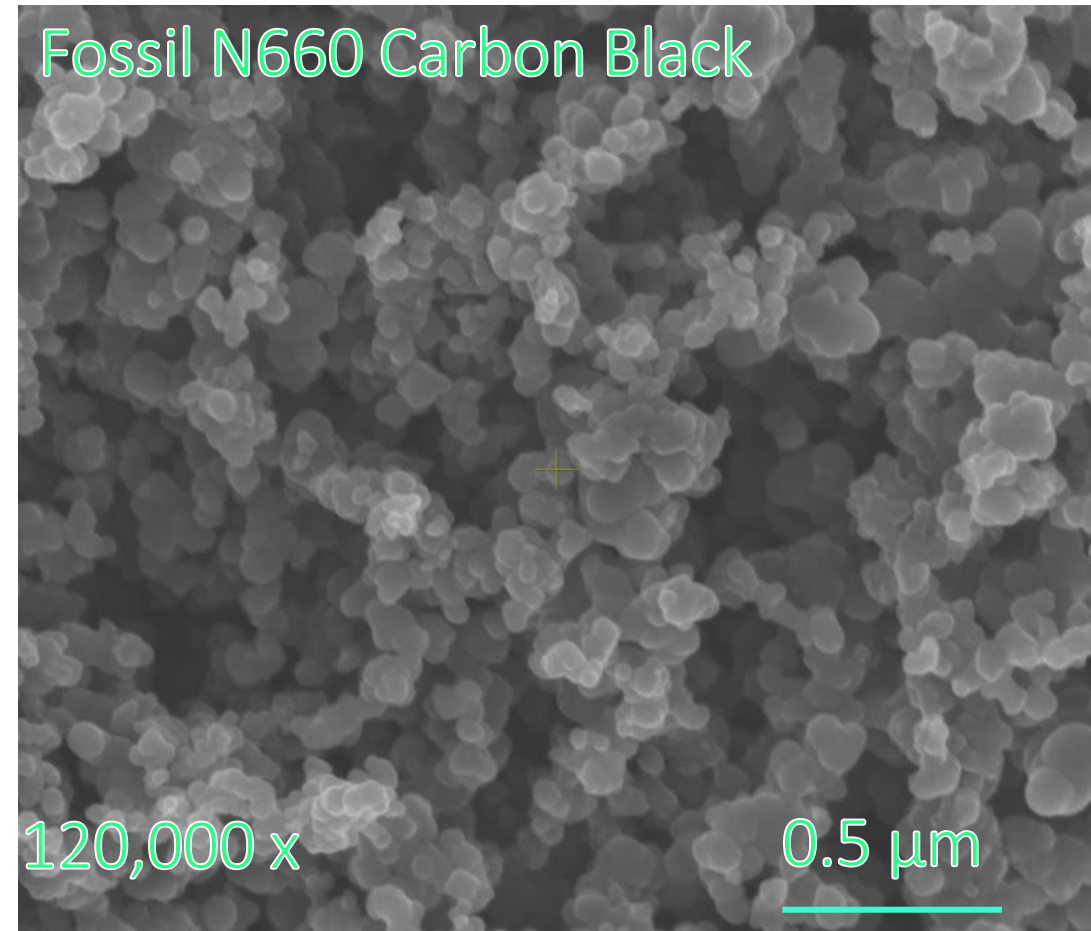
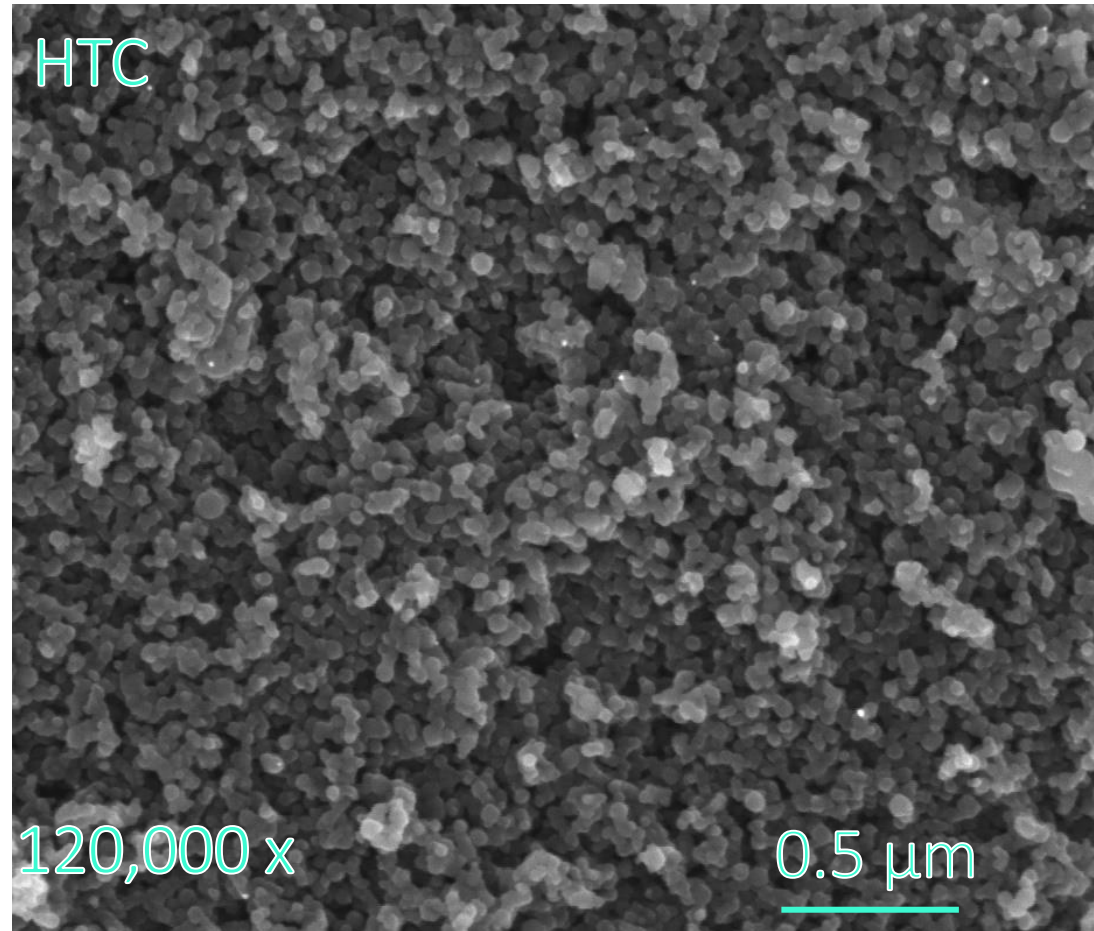
1. Percentages given on mass basis.

Source: Origin Materials

As previously reported in the Q1 2023 Earnings Presentation of Origin Materials, Inc. dated May 10, 2023.

The superior performance of Origin's carbon black derives from HTC and the proprietary core chemical process by which Origin creates it (2 of 2)

Carbon black derived from Origin's HTC is physically similar to fossil-based carbon black



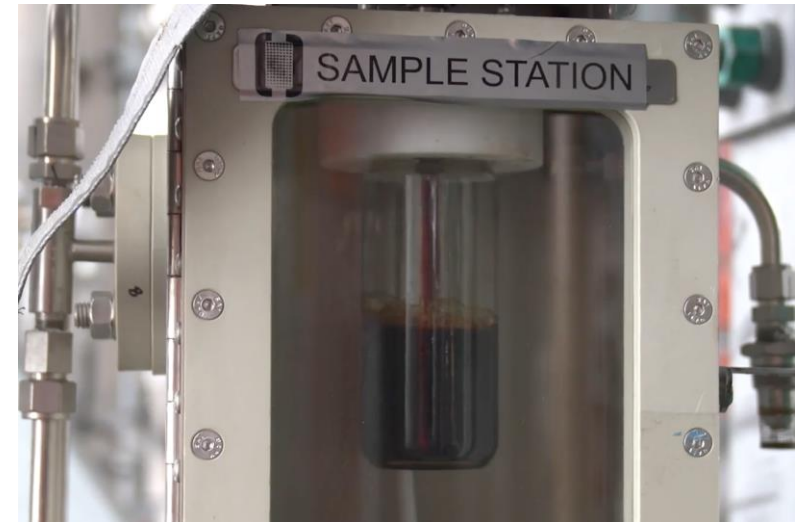
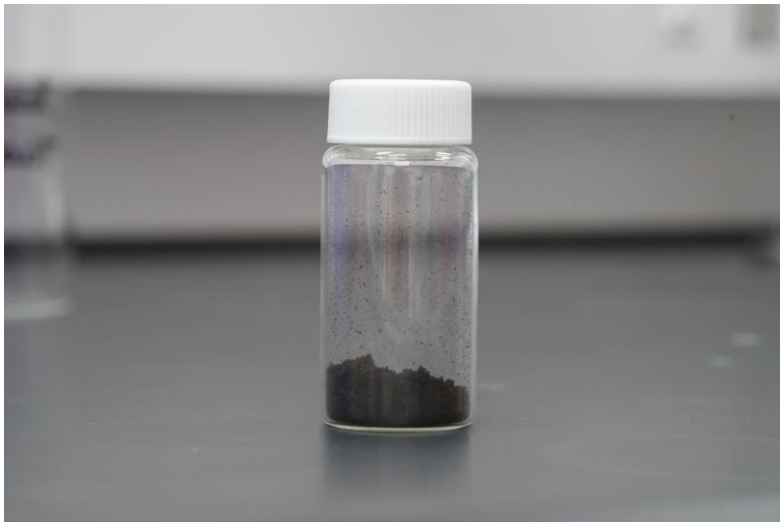
HTC primary particles (left) form as “grapelike” aggregates during the conversion of lignocellulosic biomass to platform intermediates including CMF. The structure of these aggregates is complex and similar to N660 carbon black derived from oil (right).



Origin 1 Commences Commercial Scale Production

Origin 1 proves technology scalability and enables commercial opportunities

Achievement is key milestone in advancing strategic partnerships and technology commercialization



Top left: CMF sample produced at Origin 1, photographed in Origin 1 analytics lab. Bottom left: HTC produced at Origin 1, photographed in Origin 1 analytics lab. Center: the team after analytics confirmed successful production of CMF on the first day of commercial-scale production. Top right: product storage vats. Bottom right: CMF sample station.



ORIGIN

The world's leading carbon negative materials company

Origin Technology Overview: <https://vimeo.com/617156035>

Origin Sarnia Start Up Phase: <https://vimeo.com/852792016>

Origin Sarnia Operation Phase: <https://vimeo.com/882723402>