

Company Overview

The world's leading carbon negative materials company

November 4, 2022

Forward looking statements and disclaimers

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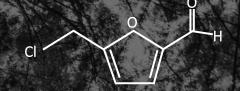
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Origin Materials - At a Glance

The world's leading carbon negative materials company



Disruptive Materials
Technology Company



Origin produces low and negative carbon materials

Decarbonizing Platform Technology



Enables customers' netzero commitments **Enormous TAM**

~\$1+ Trillion

\$390Bn near-term focus in polyesters; \$750Bn across broad range of materials Cost advantaged



Timber feedstocks are competitive with oil and ~10x cheaper than bio alternatives

Global Fortune 500 Customers & Investors¹







Strong Customer Demand²

\$9.0Bn³ and growing

from a diverse mix of industries

Protected & Validated Technology

23 Patent Families³

Core technology protected in key countries

Cash on hand⁴

\$362 Mn

Origin expected to be fully financed until EBITDA positive with anticipated financing and grants

^{1.} Denotes ownership by PepsiCo, Danone and Nestle prior to business combination with Artius Acquisition, Inc.

^{2.} Figures assume maximum offtake amounts and exercise of full capacity reservations. Refer to slide 31 for additional detail.

^{3.} As previously reported in the Q3 2022 Earnings Presentation of Origin Materials, Inc. dated November 3, 2022.

^{4.} As of September 30, 2022. Represents cash, cash equivalents, restricted cash, and marketable securities. Refer to slide 62 for additional detail. As previously reported on Origin's Form 8-K filed on August 12, 2021, except where otherwise noted.

Leading institutions are committing to a net zero future

The global industrial complex is committed to decarbonization

2030

patagonia

Patagonia

Carbon neutral by 2025



Proctor & Gamble

Net zero between 2020 – 2030



Siemens

Net zero by 2030



LG

Carbon neutral by 2030



IKEA

Carbon negative by 2030



Microsoft

Carbon negative by 2030



Jnilever

Carbon neutral before 2030

2030-2040



AT&T

Net zero by 2035



Walmart

Net zero by 2040



PepsiCo

Net zero by 2040



Amazon

Net zero by 2040



Mercedes Benz

Net zero by 2040



Best Buy

Net zero by 2040



General Motors

Carbon neutral by 2040

2040 - 2050



Michelin

Net zero by 2050



BF

Net zero by 2050



Danone

Net zero by 2050



Ford

Net zero by 2050



Nestlé

Net zero by 2050



Nike

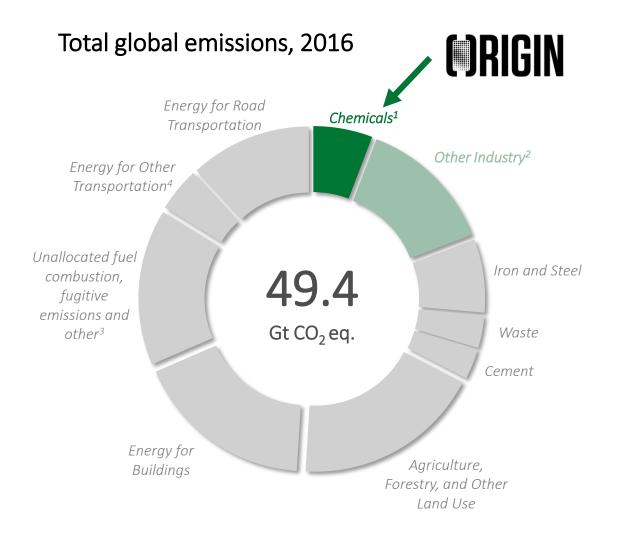
Net zero by 2050



Shell

Net zero by 2050

Nearly half of all global emissions come from making products



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



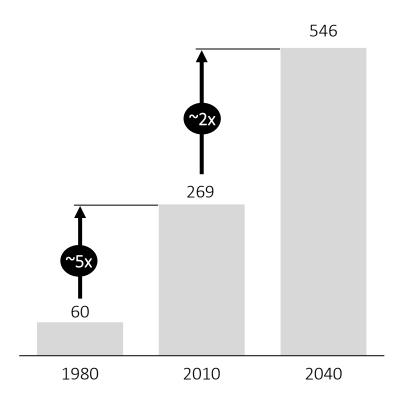
Ubiquitous plastics are a prime target to begin reducing carbon emissions

Plastics enable modern life...



... but we need better, scalable solutions

Million tons





Drop-in ready – change only happens at scale

Transforming the materials economy won't happen in niche markets. Plastics permeate every sector and Origin's products are supply-chain ready alternatives for fossil-based feedstocks



Negative-to-low carbon

Sustainably harvested, renewable feedstocks (e.g., forest waste / residues) can convert naturally captured carbon into useable end products



Sustainable, end of life solutions (recycle first)

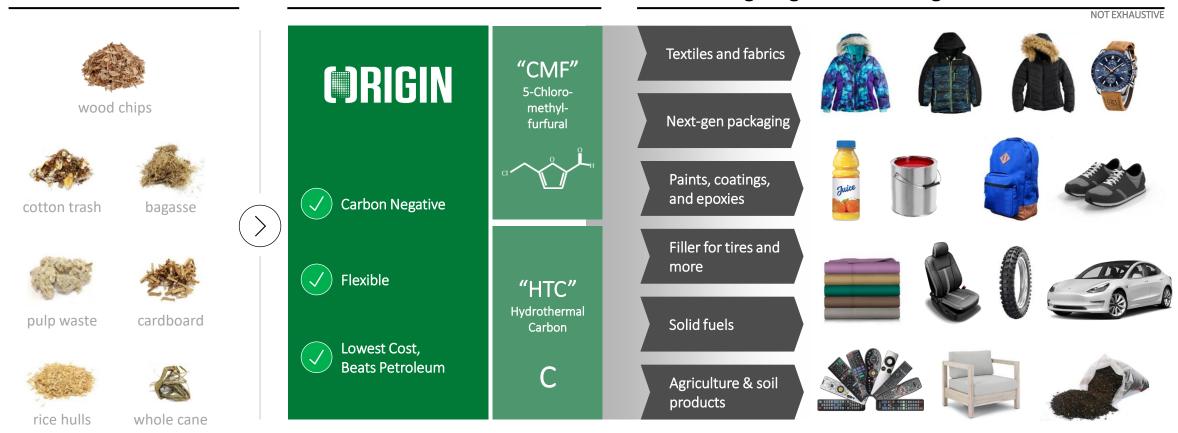
Responsible plastics use goes from 'cradle to grave'. Enabling the circular economy through high rates of recycling is a must for any solution

The Origin platform: 'Once in a planet' shift from fossil to decarbonized materials

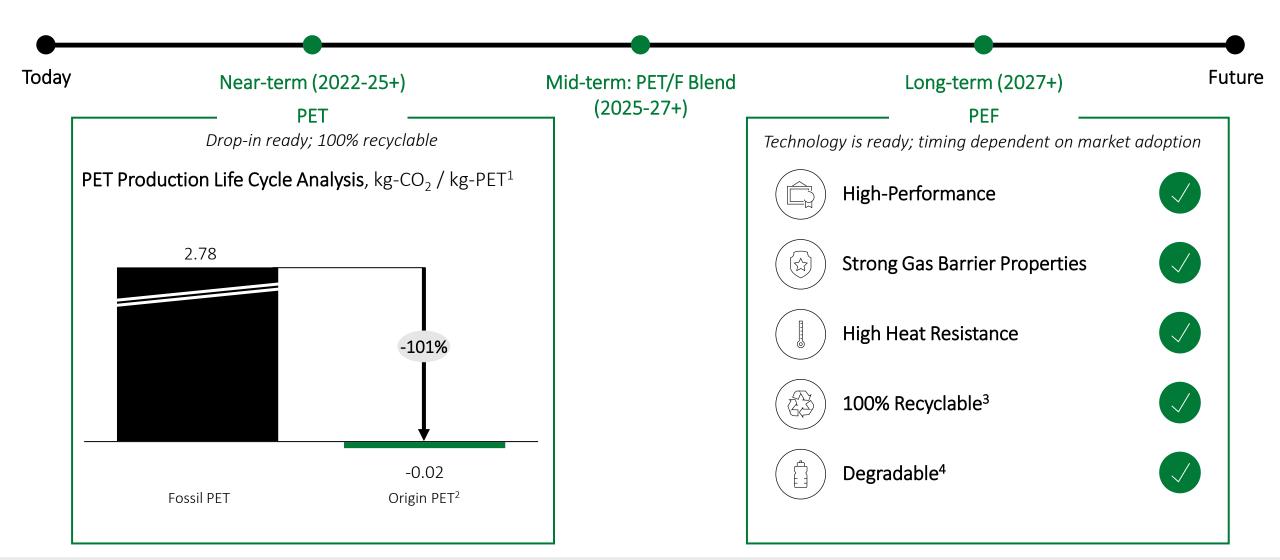
Abundant, low-cost, bio-feedstocks

Origin Core Technology

Countless products can be manufactured using Origin's carbon negative materials...



Origin's CMF is a carbon negative solution for recyclability and degradability



^{1.} Process step carbon impacts are derived from Deloitte ISO compliant LCA report. Deviations from supply chain described in LCA report may affect carbon impacts. 2. Southern Pine based bio-PET. 3. PEF can be recycled by the same mechanical methods used for PET. Currently there are no independent PEF recycling stream or U.S. guidelines for blending PEF and PET streams. 4. PEF degradation time in industrial composting conditions (58 °C) range from 7 to 13 months to 90% degradation, depending on conditions, according to "First Results Accelerated Tests Biodegradation of PEF," Organic Waste Systems (OWS), Gent, Belgium.

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



Origin's HTC is a diverse, high-potential carbon negative platform material

Near-term (2022-25+) Today Fuel pellets/Activated Carbon (~\$20Bn) A drop-in ready, energy dense, A carbon negative carbon black replacement for fuel alternative tires, foams, and dyes Net o No Detectable Carcinogens¹ Carbon footprint Annual growth rate of Carbon Black Production Life Cycle Analysis, fuel pellet market kg-CO₂ / kg-Carbon Black A carbon negative solution for food and water treatment ~500 m²/g – Ultra high surface area 3,000

Mid-term (2025-27+) Carbon Black (~\$20Bn)

Fossil Carbon Black

-1.67

Origin HTC²

Long-term (2027+) Agriculture (~\$40Bn) **Future**



A next-generation agriculture additive to improve farming efficiency

Key Properties

Porous, High Surface Area



Available Water Capacity



High Cation Exchange

Applications

Biochar, slow-release fertilizer, microbials / biologics, soil amendment



Annual growth rate of

activated carbon market

^{1.} Origin carbon black does not contain any PAH, or polyaromatic hydrocarbons, which are carcinogens found in fossil carbon black.

^{2.} Derived from Deloitte ISO compliant LCA report. Deviations from supply chain described in LCA report may affect carbon impacts. Source: Origin Materials, PBL Netherlands Environmental Assessment Agency.

Origin's platform technology decarbonization impact

By 2030, Origin's operating plants are expected to annually avoid ~8.3MMT¹CO₂ equivalent to approximately...







Estimated total addressable market for Origin products is more than \$1Trn

Origin addresses a growing market with broad applications HTC market CMF market **Market Size** Markets Cumulative TAM = >\$1Trn Near term focus pre-2030 **PET Fiber** | ~\$175Bn >\$390Bn market Apparel Carpet **PET Resin** | ~\$145Bn Food and beverage packaging Carbon ~\$70Bn \$390Bn Tires Activated Carbon \$750B Near-term focus TAM is expected to grow by ~\$15Bn annually

Estimated total addressable market for Origin products is more than \$1Trn

Origin addresses a growing market with broad applications HTC market CMF market Select Markets Market Size Cumulative TAM = >\$1Trn Long term focus post-2030 Paints & Coatings | ~\$30Bn >\$750Bn market Colorants Soil Additives | ~\$40Bn Soil Nutrients PEF | ~\$225Bn Apparel Apparel PET Applications Packaging **Epoxies** | ~\$15Bn Adhesives

Coatings Coatings

Plasticizers

PVC Piping

| ~\$18Bn

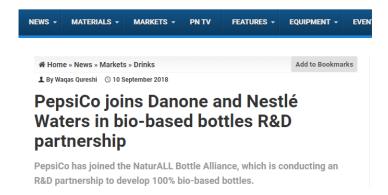


\$390Bn

\$750B

Origin is supported by Global Fortune 500 companies

Packaging News







We believe total estimated plastics demand from these three customers represents...

4.75Mn
Tons

Commercial facilities required to meet PET demand¹

Origin has earned prestigious awards and certifications for innovation









Origin Materials Wins EPA
Green Chemistry Challenge
Award for 2022 in
Partnership with University
of California, Davis

Origin Materials Earns
USDA Certified Biobased
Product Label for Carbon
Negative Materials, 2021
and 2022

Origin Materials
Recognized by Chemical
Week for Best Sustainable
Product by an Emerging
Company 2021

Origin Materials Named to Fast Company's Annual List of the World's Most Innovative Companies for 2022 in Manufacturing

AECI SANS Technical Fibers Partnership



"Origin Materials and AECI SANS Technical Fibers to Develop Carbon-Negative Materials for Apparel and Automotive Applications" – April 5, 2021

- AECI SANS Technical Fibers is a leader in engineered thread for high-performance apparel and automotive applications
- Expands existing joint development agreement in order to develop high-performance fibers for diverse thread applications serving the apparel, footwear and automotive industries
- AECI SANS Technical Fibers signed a capacity reservation agreement for carbon-negative PET and next-generation polymers produced using the Origin platform







AECI Much Asphalt Partnership



"Origin Materials and AECI Much Asphalt to Develop Low-Carbon Asphalt" – April 6, 2021

- AECI Much Asphalt is the largest commercial asphalt producer in southern Africa
- Region's leading manufacturer and supplier
 of hot and cold mix asphalt products, and a
 manufacturer, supplier and applicator of
 bituminous road binders, emulsions, primes,
 pre-coats and modified binders
- The collaboration is expected to create substantial value in the developing African market, where AECI Much Asphalt is currently active





Packaging Matters Partnership



"Origin Materials and Packaging Matters Launch Partnership to Develop Advanced Carbon-Negative Packaging Solutions, Building on Existing 10-Year Supply Agreement" – April 12, 2021

- Packaging Matters is a leader in packaging innovation with several Fortune 100 food companies as customers
- Development work to produce advanced packaging materials, including PEF
- Packaging Matters will transition its virgin petroleumbased PET purchases to sustainable carbon-negative PET from Origin Materials.
- As the companies make progress on developing PEF applications, some or potentially all of the supply is expected to transition to PEF
- 40+ years PET experience
- 3 manufacturing facilities in the United States









PrimaLoft Partnership



"Origin Materials and PrimaLoft Form Strategic Alliance to Develop Carbon-Negative Insulating Fiber for Outdoor Gear, Bedding, and Apparel" – April 19, 2021

- PrimaLoft is advanced material technology company and a world leader in the development of high-performance insulations and fabrics
- Launched strategic alliance to develop high-performance, carbon-negative insulating fibers for diverse apparel applications, including for leading outdoor, fashion, and lifestyle brands, plus home goods applications such as hypoallergenic insulated bedding
- Signed capacity reservation agreement for carbon-negative
 PET produced using the Origin Materials technology platform
- Fibers to address demand for sustainable, high-performance materials from over 900 global brand partners
- PrimaLoft iconic brand partners include Patagonia, Stone Island, L.L. Bean, Lululemon, adidas and Nike







Solvay Partnership



Solvay and Origin Materials to Develop Advanced Carbon-Negative Materials for Automotive Industry – April 19, 2021

- Solvay, founded 1863, is a global leader in chemicals and materials with more than 23,000 employees in 64 countries, and net sales of €9 billion in 2020
- Collaboration to develop advanced materials for the automotive industry, including a drop-in ready specialty polyamide, a polymer for internal combustion engine technology as well as e-mobility systems like e-motors and power electronics that can provide resistance to heat, toughness, corrosion, and operate at high voltages
- The companies believe these materials will be critical to decarbonize supply chains in the automotive industry and achieve the zero-carbon car
- "The cooperation with Origin Materials is a new important element in our continuous commitment to sustainability which, together with our customers, is at the heart of our operations and growth strategy," said Mike Finelli, President of Solvay Specialty Polymers. "Today carbon negative-materials can be added to the evolution of our sustainability roadmap, which already includes different actions from the integrated use of renewables to generate electricity in our plants to pursuing more sustainable products with biosourced monomers or recycled content."





Ford Partnership



"Origin Materials Launches Net Zero Automotive Program With Ford Motor Company" – June 10, 2021

- Launched Net Zero Automotive Program, a sustainable automotive supply chain initiative focused on industrializing new materials to drive decarbonization in the automotive industry
- Partnership will pursue drop-in applications for carbon negative PET plastic (polyethylene terephthalate) produced from sustainable wood residues with Origin technology
- Ford and Origin will also work together to develop sustainable pigments and fillers for automotive applications throughout the interior and exterior of the vehicle, including bumpers, paint pigment, door panels, tire filler, underbonnet foam sheet, black plastic, head rests, seat cushions, and arm rests





Kolon Industries Partnership



"Origin Materials and Kolon Form Strategic Partnership to Industrialize Advanced Carbon-Negative Chemicals and Materials" – November 8, 2021

- Kolon Industries, a global leader in chemicals and materials, signed a multi-year capacity reservation agreement to purchase sustainable carbon-negative materials from Origin Materials
- Materials include novel polymers and drop-in solutions for select applications, with an initial focus on automotive applications
- The partnership includes development work aimed at commercializing polyethylene furanoate ("PEF"), a polymer with an attractive combination of performance characteristics for packaging and other applications, including enhanced barrier properties when compared with polyethylene terephthalate ("PET"), degradability, and other qualities.
- Origin Materials' technology platform is expected to produce costcompetitive, sustainable carbon-negative furandicarboxylic acid ("FDCA"), the primary precursor to PEF. Kolon has deep expertise in novel FDCA-based polymers, including PEF.

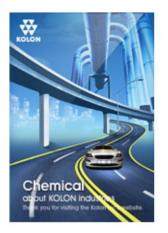
Industrial Materials



Film/EM



Chemicals



Kolon Industries areas of business1

Fashion



Mitsui Partnership



"Origin Materials and Mitsui Form Strategic Partnership to Industrialize Advanced Carbon-Negative Chemicals and Materials"

- January 10, 2022
- Mitsui & Co., Ltd., a global leader in energy, machinery, chemicals, food, textile, logistics, finance, and more, signed a multi-year capacity reservation agreement to purchase sustainable carbon-negative materials from Origin Materials
- This strategic partnership aims to rapidly develop and industrialize new sustainable carbon-negative products for the automotive, chemicals, electronics, packaging, textiles, construction, and personal care industries based on Origin Materials' patented technology platform
- The partnership will leverage Mitsui's global supply chain strength, access to Japanese and international markets, and leadership in business innovation
- Mitsui is a global trading and investment company with a diversified business portfolio that spans approximately 63 countries in Asia, Europe, North, Central & South America, the Middle East, Africa and Oceania













Mitsui & Co., Ltd areas of business include mineral & metal resources, energy, machinery & infrastructure, chemicals, iron and steel products, lifestyle, and innovation & corporate development.¹



Minafin Partnership



- Belgium headquartered Minafin Group is a leading developer and manufacturer of fine chemicals with three main areas of expertise: health chemistry, green chemistry, and challenging chemistry
- Origin + Green Chemistry Division of the Minafin Group collaboration aims to bring cost-competitive biobased products to the market, with applications in the pharmaceutical, agricultural, cosmetics and personal care, and automotive industries
- This partnership demonstrates Origin's expanded product offerings apart from CMF- and HTC-derived materials, for applications in specialty and fine chemicals
- Minafin affiliate Pennakem aims to develop new technologies with Origin to further expand the market for Pennakem's biobased products
- Minafin business unit EcoXtract® is in discussions with Origin to commercialize its revolutionary biobased extraction process using sustainable carbon-negative materials produced by Origin. The EcoXtract® process efficiently extracts useful plant oils for food, cosmetics, and other applications









LVMH Moët Hennessy Louis Vuitton Partnership (1 of 2)

LVMH

"Origin Materials and LVMH Moët Hennessy Louis Vuitton Form Strategic Partnership to Bring Carbon Negative Materials to Perfumes and Cosmetics Industry"

- April 19, 2022

- Strategic partnership with LVMH Beauty, a division of LVMH, the global leader in luxury products
- LVMH has signed a multi-year capacity reservation agreement to purchase sustainable, carbon-negative polyethylene terephthalate ("PET") for use in packaging for perfumes and cosmetics
- New category expansion and Origin's first partnership with luxury brand
- Family of renowned LVMH Beauty brands includes Parfums Christian Dior, Parfums Givenchy, Guerlain, and others









LVMH Beauty brands shown: Parfums Christian Dior, Parfums Givenchy, Guerlain

LVMH Moët Hennessy Louis Vuitton Partnership (2 of 2)

LVMH

"At LVMH, with our Life 360 program, we made the decision that our packaging will contain zero plastic from virgin fossil resources in a near future. Origin's bioplastic technologies are playing a crucial role in helping LVMH achieve our sustainability targets without any compromise on quality. LVMH Beauty is happy to collaborate with Origin, supporting innovative technologies."

- Claude Martinez, Executive President & Managing Director LVMH Beauty









LVMH Beauty brands shown: Parfums Christian Dior, Parfums Givenchy, Guerlain

Mitsubishi Chemical Group Partnership



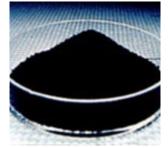
"Origin Materials and Mitsubishi Chemical Group Partner to Develop Advanced Carbon-Negative Materials for Tires"

- April 28, 2022

- Strategic partnership with Mitsubishi Chemical Group ("MCG"), Japan's leading diversified chemicals and advanced materials producer
- MCG will convert HTC produced by Origin into highperformance analogs of specialty carbon black materials
- Represents Origin's first announced carbon black partnership
- Carbon black applications include paint, printing inks, colored resin, toner, tires, and rubber products







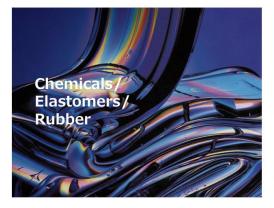
Kuraray Partnership

kuraray

"Origin Materials and Kuraray Announce Carbon Negative Materials Partnership"

- June 16, 2022

- Kuraray, a global Japanese specialty chemicals company and one of the largest suppliers of industrial polymers and synthetic microfibers, signed a multi-year capacity reservation agreement to purchase sustainable carbon negative materials from Origin
- Strategic partnership to commercialize advanced carbon negative materials for diverse polymer applications
- The sustainable, carbon negative intermediate chemicals produced by Origin can be used in the largescale synthesis of many polymers, including purified terephthalic acid ("PTA"), PET, and polyamide











Revion Initiative

"Origin Materials and Revlon Announce Initiative to Develop Next-Generation Sustainable Packaging for Cosmetics"

– July 20, 2022

- Revlon, a leading global authority and beauty trendsetter in the world of color cosmetics and hair care, signed a memorandum of understanding to reserve commercial volumes of Origin PET
- Joint initiative to develop advanced carbon negative materials for next generation cosmetics packaging



Revlon is among the leading global beauty companies, with some of the world's most iconic and desired brands and product offerings in color cosmetics, skin care, hair color, hair care and fragrances under brands such as Revlon, Revlon Professional, Elizabeth Arden, Almay, Mitchum, CND, American Crew, Creme of Nature, Cutex, Juicy Couture, Elizabeth Taylor, Britney Spears, Curve, John Varvatos, Christina Aguilera and AllSaints. Source: Revlon.com

Intertex Partnership



"Origin Materials and Intertex Announce Partnership to Produce 100% Bio-Content Carbon Black for Rubber Compounding"

– July 25, 2022

- Intertex World Resources, a leading value-added distributor of synthetic rubber, signed an offtake agreement to purchase sustainable carbon negative carbon black from Origin
- Origin carbon black, made from Origin's hydrothermal carbon ("HTC"), is a versatile 100% bio-content filler and pigment
- Carbon black can be used in a wide range of applications including belts and hoses, mechanical rubber goods, tires, plastic masterbatch, and toners
- Partnership aims to produce carbon black for tires including N660, N550, and N762 specifications, as well as for belts, hoses, rubber seals, plastic extrusion, and other mechanical rubber goods markets









ATC Plastics Partnership



"Origin Materials and ATC Plastics Announce Partnership to Bring 100% Bio-Content Carbon Black to the Plastics Industry" – July 27, 2022

- ATC Plastics, a leading global manufacturer of black color concentrates, agreed to purchase sustainable carbon-negative carbon black from Origin Materials
- The global market for carbon black is projected to reach \$26
 billion by 2025, expanding at 6% CAGR. Plastics is anticipated to be
 the fastest-growing application for carbon black from 2019 to
 2025 resulting from its use in the production of high-performance
 products
- Application targets include plastic masterbatch for corrugated pipe and plastic manufacturing processes such as blow molding, injection molding, pipe extrusion, compounding, plastic film and sheet, and rotational molding







Source: atcplastics.com



Origin customer demand has increased more than ninefold to \$9.0Bn since February 2021 announcement to go public

Total demand is \$9.0Bn in either offtake agreements or capacity reservations¹

Customer Demand, \$Bn cumulative²

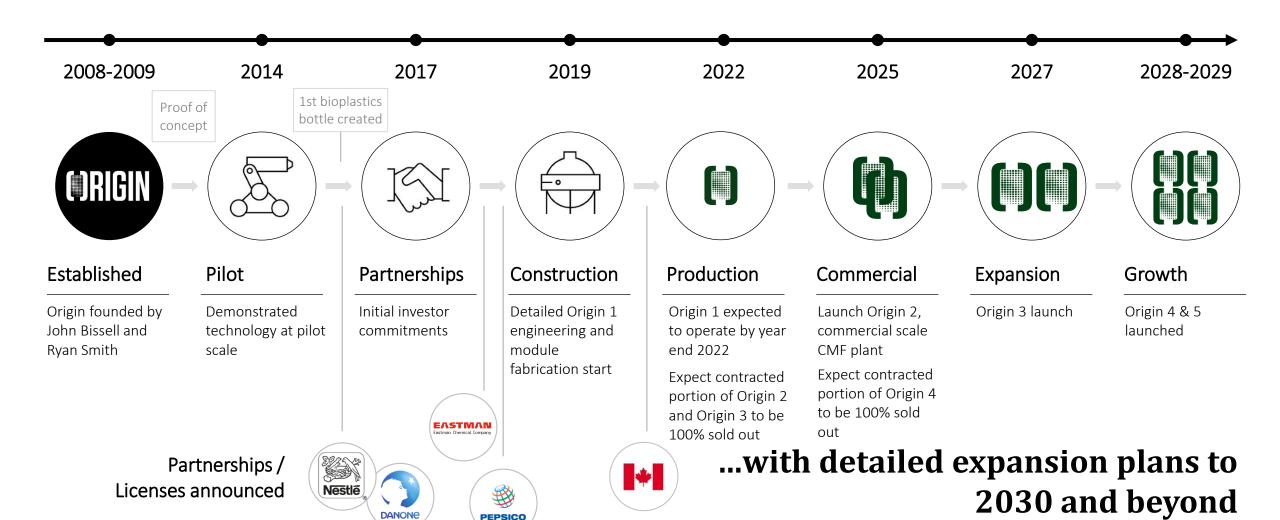
PEPSICO ~\$9.0 Bn Nestle ~\$8.1Bn **DANONE** CAECI ~\$7.4Bn MITSUBISHI GAS CHEMICAL packagina Stepan 5 MATTERS SOLVAY ~\$5.6Bn MITSUI&CO. LVMH **WKOLON INDUSTRIES** ~\$4.2Bn ~\$3.5Bn MIN_FIN **kuraray** ~\$1.9Bn INTERTEX ATC PLASTICS REVLON ~\$1Bn Transaction Q2 Q3 Q2 Q3 Q4 Q1 Analyst Day Announced Aug 2021 Apr 2021 Nov 2021 Feb 2022 May 2022 Aug 2022 Nov 2022 Feb 2021

Select Origin Customers & Partners

^{1.} Figures assume maximum offtake amounts and exercise of full capacity reservations.

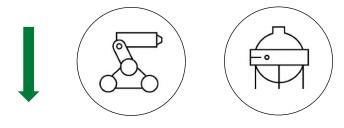
^{2.} In the chart, green color denotes the incremental increase in customer demand for a given quarter. Source: Origin Materials.

Origin is building on a strong foundation toward rapid growth...

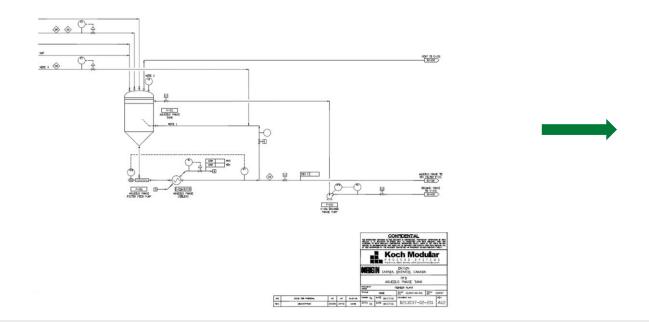


Construction - Origin 1 (1 of 15)

>10 years bench/pilot scale chemistry & engineering



Origin 1 design



Origin 1 core technology module fabrication



Construction - Origin 1 (2 of 15)



Foundations





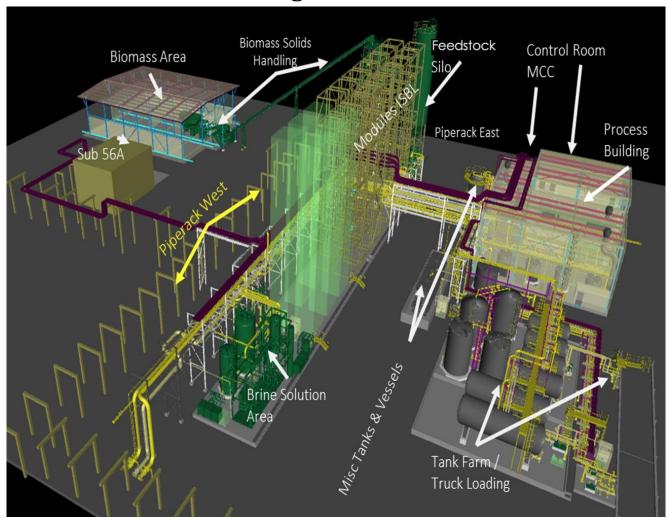
Tanks & other equipment







Origin 1 Plant



Construction - Origin 1 (3 of 15)

Module installation milestone achieved ahead of schedule in October 2021

All 17 core process modules installed successfully, 6 months ahead of schedule announced in April 2021.

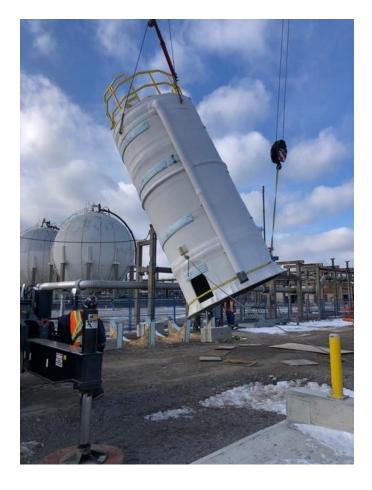


Construction - Origin 1 (4 of 15)

The ENCON evaporator module system was placed and bolted three months ahead of the schedule announced in April 2021

ENCON tanks being offloaded and placed







Construction – Origin 1 (5 of 15)

Piping and steel fabrication, started nearly 6 months ahead of the schedule announced in April 2021, is on track







Pipe fabrication prior to painting

Construction - Origin 1 (6 of 15)

Fabricated pipes are painted before assembly into steel pipe racks







Painted pipe, including 80-foot pieces. Next, the pipes are assembled into pipe rack modules and shipped to the Origin 1 site for installation in the field



Construction – Origin 1 (7 of 15)

Steel pipe racks interconnecting the plant's key production modules being assembled and installed in the field



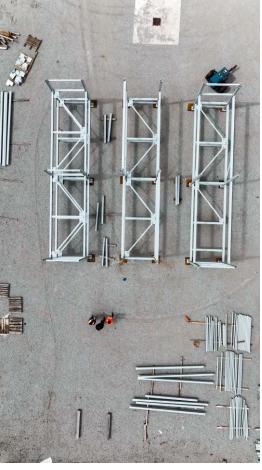
Blast cleaning steel verticals



Finished steel verticals



Pipe rack module verticals in fabrication



Steel pipe rack module assembly





Key production module showing process equipment. The newly fabricated pipe rack modules are designed to interconnect the plant's key production modules

Construction – Origin 1 (8 of 15)

HTC building construction started and HTC separation filter press delivered and placed



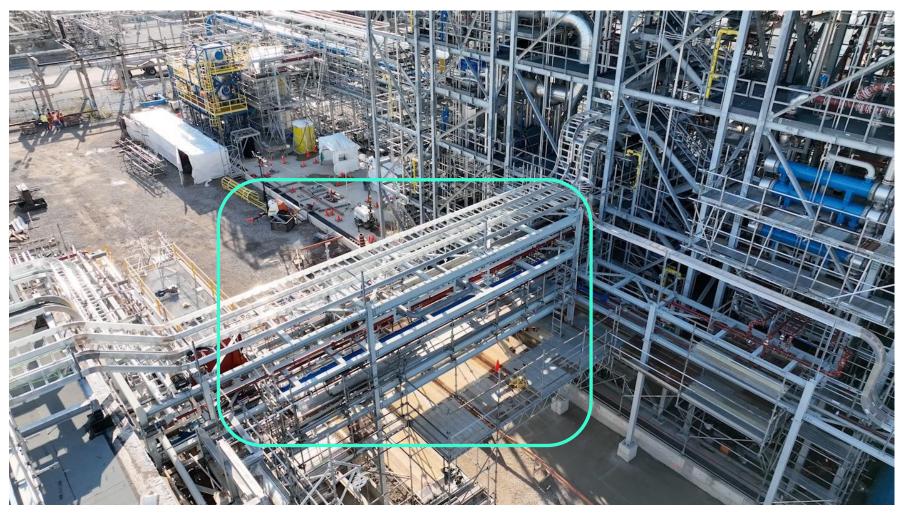




HTC is one of Origin's platform products with a wide range of applications including carbon black. Carbon black is used in belts and hoses, mechanical rubber goods, tires, plastic masterbatch and more. The filter press utilizes the same HTC separation technique employed at Origin's pilot plant in California but is about 100 times the size

Construction - Origin 1 (9 of 15)

Assembly of pipeline and electrical systems progressing



The main pipe rack connects the key production modules to the HTC building, tank farm, and power distribution building. This pipe rack delivers process chemicals to and from the tank farm and key production modules. In addition, it will supply electrical power from the power distribution building to the key production modules and ENCON evaporator module system.

Construction - Origin 1 (10 of 15)

All major equipment has been delivered including the power distribution building, which contains the motor control center







The power distribution building contains the motor control center

Construction - Origin 1 (11 of 15)

All major equipment has been delivered including the control room, which houses the DCS ("distributed control system")







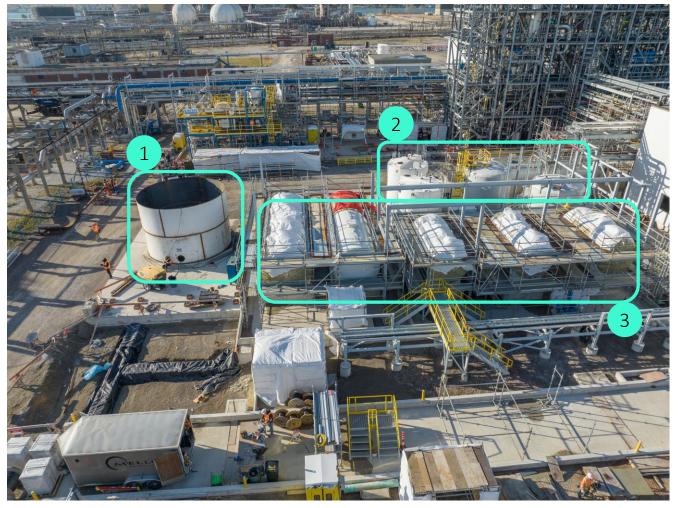




The control room will contain the DCS, the brain of the plant which controls every powered system

Construction - Origin 1 (12 of 15)

Additional storage tanks have been delivered





1. Storage tank for containing unrefined CMF before its distillation step. Due to its large size, our distillation feed tank was assembled onsite rather than delivered by road. The unpainted areas allow for welding. 2. Brine tanks and HCl tanks. 3. Solvent tanks and storage tanks for finished CMF. 4. Brine recovery tank

Construction - Origin 1 (13 of 15)

The HTC building has been substantially completed and additional HTC recovery equipment has been delivered



HTC is one of Origin's platform products with a wide range of applications including carbon black. Carbon black is used in belts and hoses, mechanical rubber goods, tires, plastic masterbatch and more. The HTC building contains both filter presses, used to process HTC



Shown at left is the first filter press, delivered during Q2 2022, included to provide a sense of scale for the image above

the size

The second HTC filter press has been

delivered, shown here in protective plastic wrap. The filter press uses the same HTC separation technique employed at Origin's pilot plant in California but is about 100 times



Construction – Origin 1 (14 of 15)

Biomass building completed





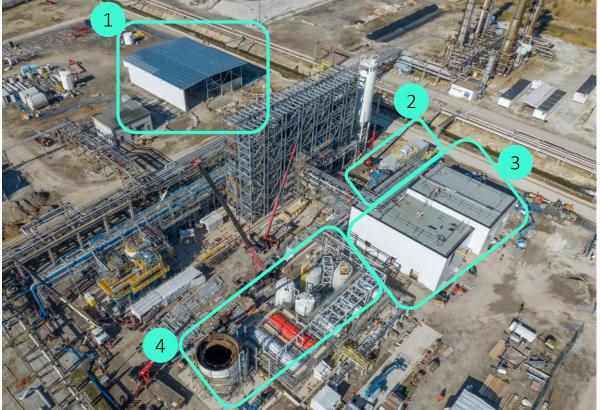
The biomass building will store sustainable wood residues entering the plant prior to processing and conveying to the reactor system

Construction - Origin 1 (15 of 15)

Origin 1 is on track for completion by the end of 2022



"Before": Q2 2022 photograph



"After": 1. Completed biomass building. 2. Power distribution building, brine recovery tank, and control room (obscured by HTC building). 3. Substantially completed HTC building. 4. Additional tanks including unrefined CMF storage tank (mid fabrication), brine tanks, HCl tanks, solvent tanks, and storage tanks for finished CMF.

Construction – Origin 2 (1 of 3)

"Origin Materials Announces Geismar, Louisiana as Location for Second Manufacturing Plant, Origin 2" — February 16, 2022

- The company has selected a site in Geismar, Louisiana, for the construction
 of its first world-scale manufacturing facility, Origin 2, subject to finalization
 of economic incentives from the State of Louisiana
- The plant is expected to convert an estimated 1 million dry metric tons of sustainable wood residues each year into carbon-negative materials used to make PET and HTC for a wide variety of end markets
- The site offers access to plentiful sustainable wood residues, including "residuals" or waste wood from local large-scale pulp mills. The Geismar wood basin is estimated to consist of approximately 650 million green short tons¹ of inventory²
- Pending state and local incentives are estimated to be worth more than \$100 million, and the State of Louisiana has preliminarily awarded Origin a Private Activity Bond volume cap allocation in the amount of \$400 million
- Construction expected to start by mid-2023 and the plant is expected to be operational mid-2025

(Continued on next page)

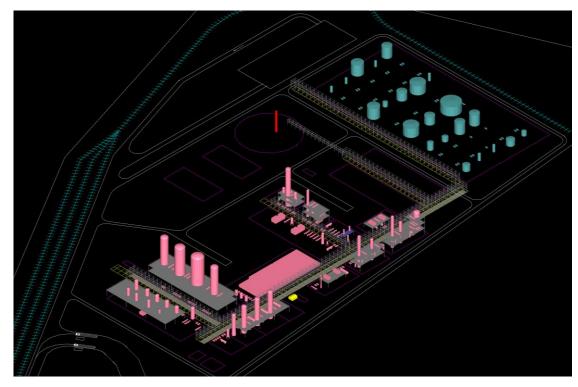


The Geismar wood basin, shown in green, offers plentiful sustainable wood residues, including "residuals" or waste wood from local large-scale pulp mills¹

Construction – Origin 2 (2 of 3)

"Origin Materials Announces Geismar, Louisiana as Location for Second Manufacturing Plant, Origin 2" — February 16, 2022

- The local industrial cluster offers access to reliable utilities, including hydrogen pipelines, ethylene pipelines, valuable inorganic species, water, and wastewater treatment
- Opportunities to place Origin products in the local industrial ecosystem and to participate as a customer in that ecosystem as well
- The site offers exceptional logistics via rail and water, located along the Mississippi River with easy barge access to the Gulf Coast, which is valuable for the distribution of chemical intermediates
- The site is nearby other chemical company potential partners, with approximately 15 chemical companies and refineries in the nearby Geismar area
- Baton Rouge and New Orleans have extremely skilled labor pools across refining, pulp and paper, forestry and agronomy, feedstock logistics, and chemicals
- The 150-acre facility would create an estimated 500 construction jobs, 200 local full-time positions, and between 500 and 1,000 indirect local jobs



Preliminary rendering of Origin 2 at Geismar site

Construction – Origin 2 (3 of 3)

Origin has selected Hunt, Guillot & Associates as its owner's engineer for Origin 2



- The owner's engineer will provide full-service engineering to support and augment Origin in all phases of the project, from early design to construction, logistics, planning, detailed scheduling, cost forecasts, progress tracking and reporting, and work stream integration
- As a multi-disciplined project management and engineering services company, HGA has provided professional services to an extensive portfolio of customers throughout numerous industries for 25 years.
 HGA has ten locations throughout Louisiana, Texas, Arkansas, and Alabama and has provided full-service offerings in over 30 states, Puerto Rico, Canada, China, and Mexico
- HGA is located close to many tier 1 engineering companies, the Origin
 2 site in Geismar, Louisiana, and much of the Origin design team
- HGA owner's engineer experts have conducted multiple billion-dollar projects
- HGA has extensive wood handling and forest products experience





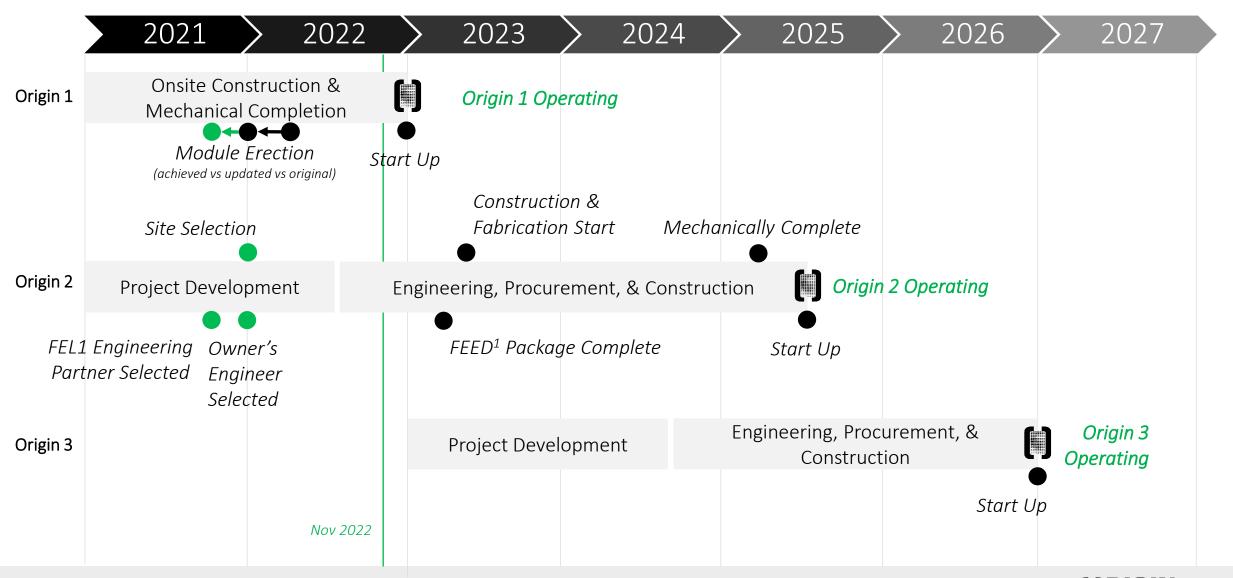




HGA projects



Construction schedule – Origin 1, Origin 2, and Origin 3



Construction schedule - Origin 1

Origin 1 – plant purpose

Produce CMF and HTC at commercial volumes

Produce CMF and HTC and other intermediates in volumes that allow customers to qualify products and applications other than PET

Objectives – by end of Q2 2022

- 1st round of operations hiring DONE
- Piping modules delivered and installed DONE
- Storage tanks for solvent received onsite DONE
- HTC building construction start DONE
- Filter press received and installed DONE

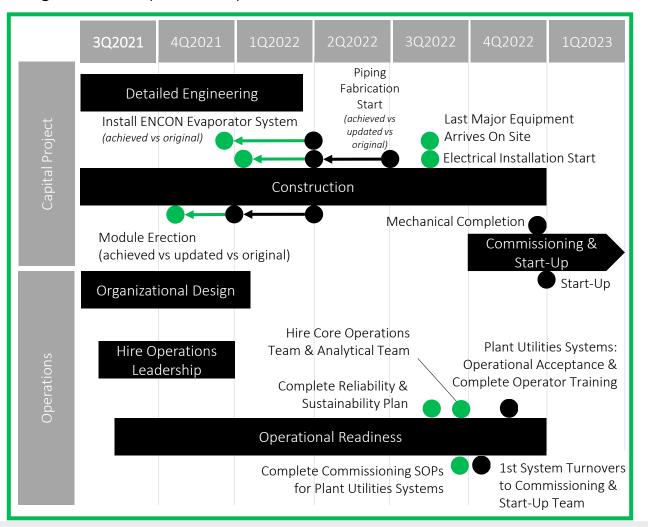
Objectives – Q3 2022

- Electrical installation start DONE
- Last major equipment arrives on site DONE
- Complete reliability and sustainability plan DONE
- Hire core operations team & core analytical team DONE
- Complete commissioning SOPs for plant utilities systems DONE

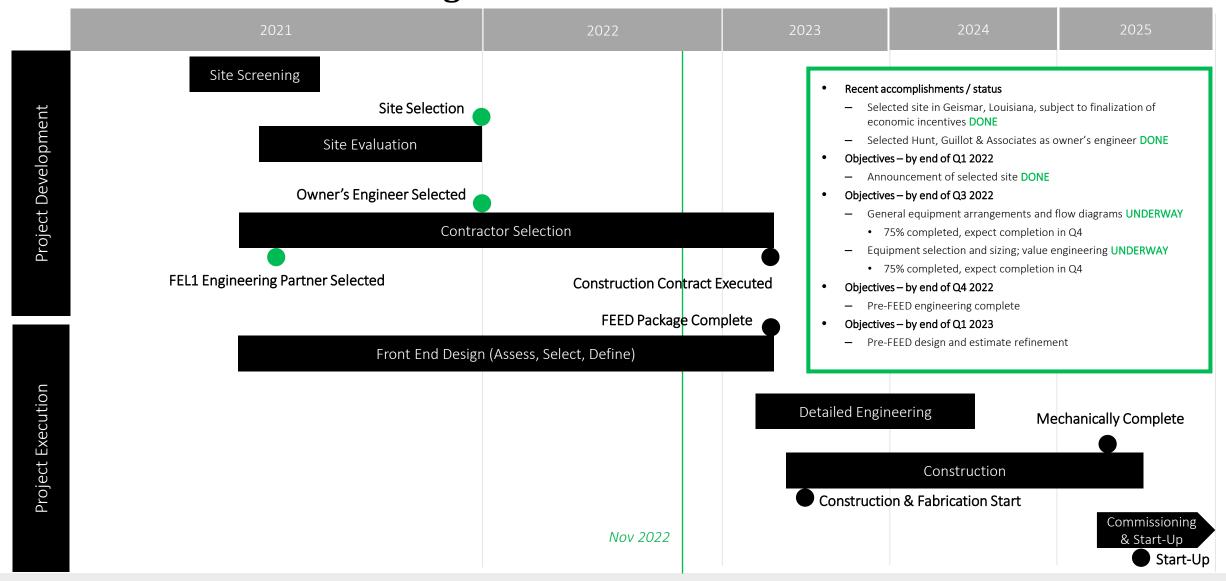
• Objectives – Q4 2022

- 1st system turnovers to commissioning and start-up team
- Complete operator training for plant utilities systems
- Complete operational acceptance of plant utilities systems
- Complete commissioning SOPs for plant process systems
- Complete operator training for plant process systems
- Complete operational acceptance for plant process systems
- Mechanical completion

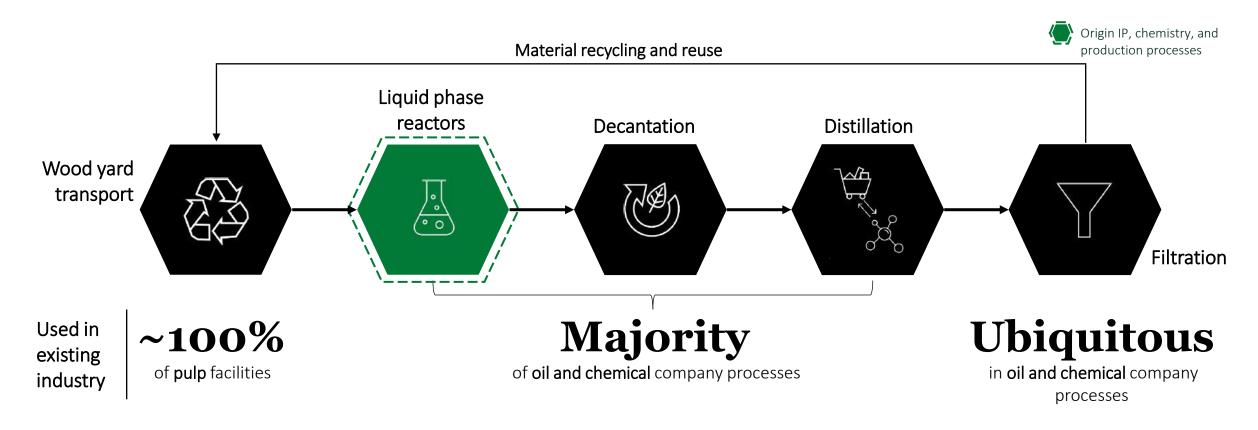
Origin 1 Timeline (Detail View)



Construction schedule - Origin 2



Origin is delivering transformational chemistry through mature, industrystandard equipment, materials, and technical processes



Patent families protect unique CMF and HTC production processes¹

Zero

untested mechanical processes required for operations / scale-up²

^{1.} As previously reported in the Q3 2022 Earnings Presentation of Origin Materials, Inc. dated November 3, 2022.

^{2.} Origin does not rely on any novel mechanical processes in its plants. All of Origin's mechanical processes are standard mechanical processes utilized in the chemicals and refining industry.

Origin's technology uses conventional chemical processing, which is inherently well suited to scale-up

Moreover, Origin technology offers additional technical and economic advantages for process scale-up

Origin technology scale-up advantages

Technology comparison

Proven approach for scaling up bio-processes

Conventional chemical bio-processes that have scaled up include bio-diesel, Kraft process, PLA, ethanol to ethylene, and renewable diesel

Conventional equipment

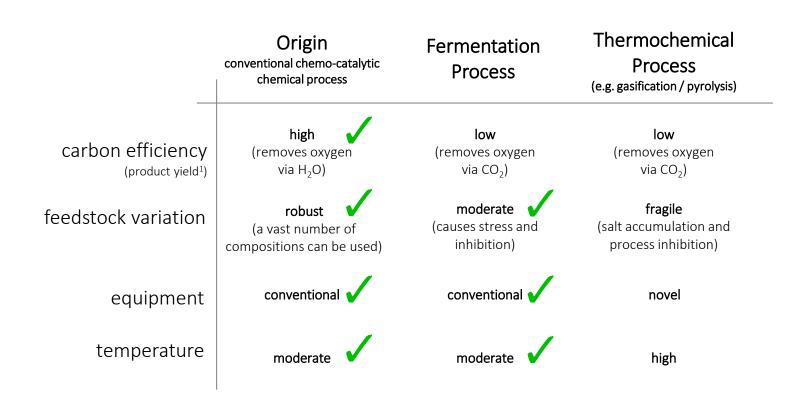
Standard equipment used in the chemical industry for centuries makes scale-up more straightforward than processes requiring new mechanical designs

Extensively tested at pilot scale

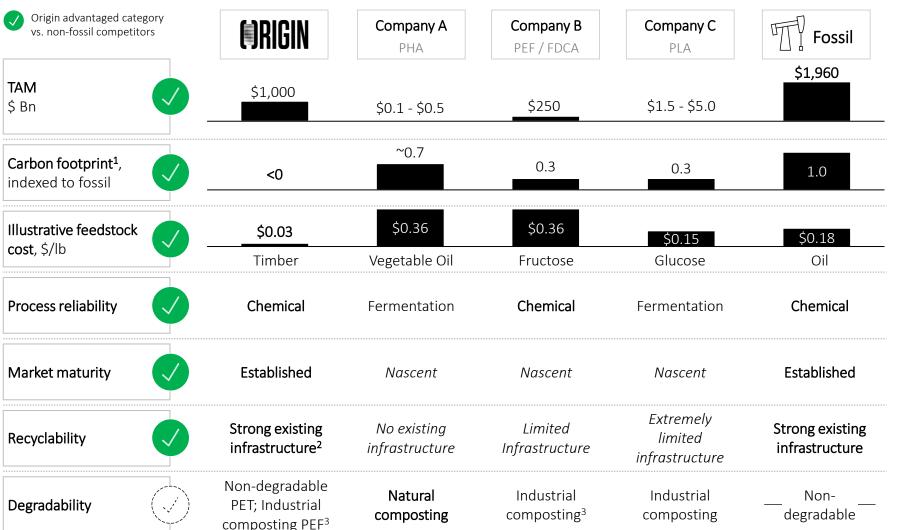
Origin's process has been extensively run and stress tested at pilot scale for over 10 years

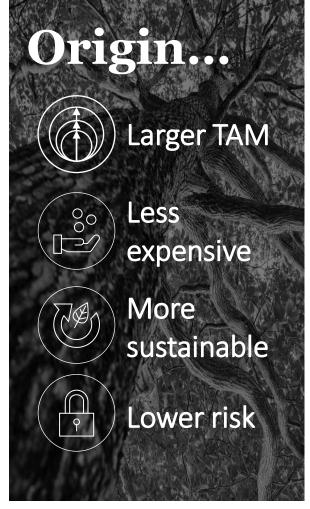
Powerful demand pull

Carbon efficiency and the low cost & volatility of feedstock drive demand for Origin's products



Origin has meaningful advantages over bioplastics companies









Origin brings an unrivaled set of industry veterans, leaders, and visionaries



UCDAVIS UNIVERSITY OF CALIFORNIA

John Bissell Co-Founder & Co-CEO

- Founded Origin Materials in 2008
- Featured on Forbes 30 under 30



 Former CEO Shazam and senior executive at Yahoo!

Rich Riley
Co-CEO

- - 20+ years managing rapid-growth organizations



UCDAVIS

Nate Whaley CFO

20 years C-Suite experience scaling complex high growth business across industries



BROADROCK

Stephen Galowitz

 Co-founder / Chief
 Development Officer
 of renewables
 HARVARD LAW SCHOOL
 company

• 15 years experience in

renewables space



UCDAVIS UNIVERSITY OF CALIFORNIA



 Process Engineer at NEC Electronics



Josh Lee General Counsel

- Attorney at Irell & Manella, LLP
- Sr. Analyst at Strumwasser & Woocher, LLP



Roman Wolff VP of Engineering

- Engineering leader at TETRA Technologies
- 30 years of experience in engineering on more than 20 projects

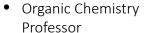


UCDAVIS

Wharton

Mako Masuno, PhD Chief Scientist

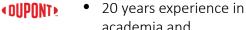
Pathway Development
 & Optimization Expert





Tanja Gruber, PhDVP of R&D

 R&D leader at Dupont and IFF



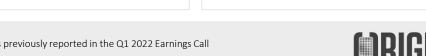
academia and biochemical industry



UCDAVIS

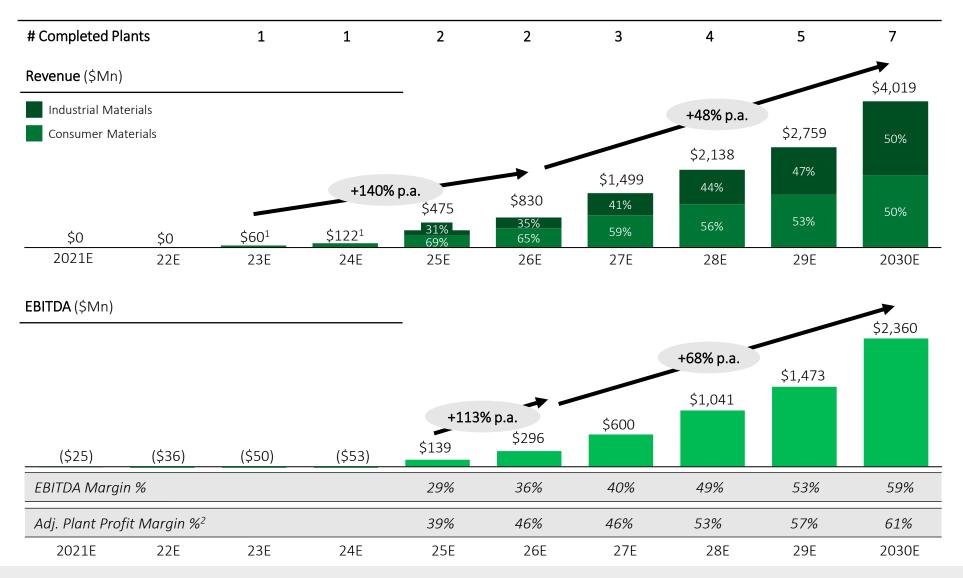
- Chris Williams-Campbell VP of HR
- 15 years experience in biotech, pharmaceutical, and medical device industries







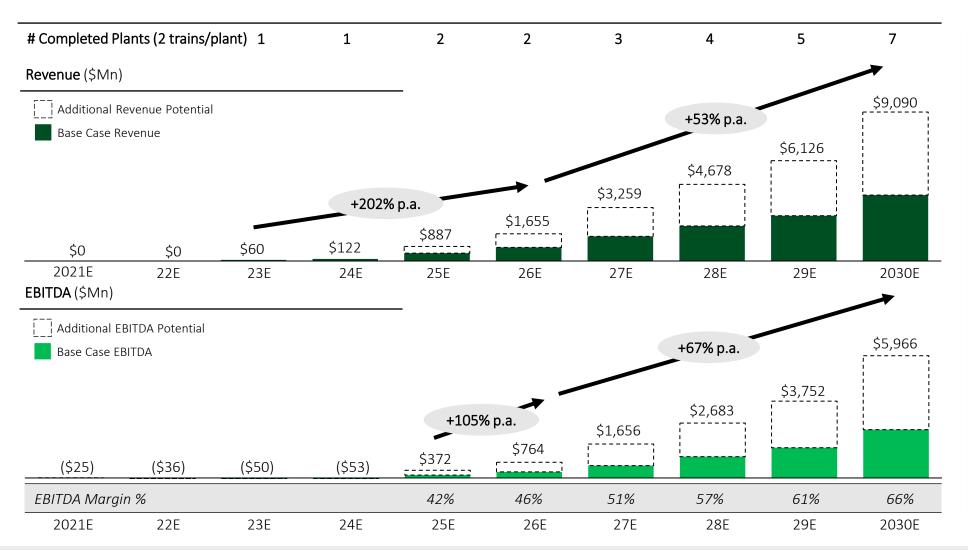
Origin expects to deliver a superior financial profile for years to come



- Revenue and materials volume forecast / growth based on satisfying existing customer offtake contracts and expected future demand
- Pricing assumptions are based on negotiated contract pricing with existing customers
- Feedstock cost assumptions reflect historically low volatility of pine pulpwood prices
- Cost assumptions also include additional required overhead during scaling
- EBITDA margins and associated growth are expected to improve throughout the forecast period as a result of increasing economies of scale from additional plants coming online
- Includes R&D expenditures to maintain Origin as the global leader in low or negative carbon material technologies



Origin could see significant additional revenue potential



- Assumes Origin is able to secure moderately higher prices in new customer contracts as a result of strong demand and carbon negative materials scarcity
- Concurrently, assumes Origin adds capacity at a faster rate than base business plan¹, adding two trains per new plant, effectively doubling capacity of each
- Feedstock prices assumed unchanged as primary feedstock supply (forest / wood processing residues) is ample and well above Origin's needs



Long-term target operating model

	Origin Plant 1	Origin Plant 2	Origin Plant 3-7 Average
Illustrative Run-Rate Economics			
Mn lb. biomass input	49	2,205	2,205
Mn lb. products sold	146	2,412	1,313
CapEx (\$Mn)	\$70 ¹	\$1,072	\$811
ROIC (Adj. plant margin/CapEx)	NM	35.9%	51.1%

	\$Mn	\$/lb. product	\$Mn	\$/lb. product	\$Mn	\$/lb. product	
Revenue	\$122	\$0.84	\$708	\$0.29	\$637	\$0.49	
Consumer materials	\$122		\$414		\$291		
Industrial materials	\$122		\$294		\$346		
Biomass feedstock	(\$7)	(\$0.05)	(\$56)	(\$0.02)	(\$56)	(\$0.04)	
Other feedstock & variable costs	(\$7)	(\$0.05)	(\$93)	(\$0.04)	(\$108)	(\$0.08)	
Tolling & downstream processing	(\$106)	(\$0.73)	(\$154)	(\$0.06)	(\$39)	(\$0.03)	
Adj. Contribution ²	\$2	\$0.01	\$405	\$0.17	\$435	\$0.33	
Plant labor + other fixed costs	(\$6)	(\$0.04)	(\$20)	(\$0.01)	(\$20)	(\$0.02)	
Adj. Plant Profit	(\$4)	(\$0.03)	\$385	\$0.16	\$415	\$0.32	
Primary Products	PET/F, CMF, higher value application development samples		PET, HTC fuel		PET, PET/F, PEF ³ , CMF, FDCA ⁴ , carbon black, activated carbon, HTC fuel		

^{1.} Denotes incremental capex to be spent in 2021-2022.

^{2.} Reflected as adjusted gross profit in the base case projections included in the registration statement on Form S-4 as filed with the SEC by Artius Acquisition Inc. ("Artius") on March 9, 2021, as amended.

^{3.} Polyethylene furanoate. 4. Furandicarboxylic acid. Source: Origin Materials management estimates.

Anticipated fully funding of Origin 1 and Origin 2 from cash on hand and traditional project financing sources

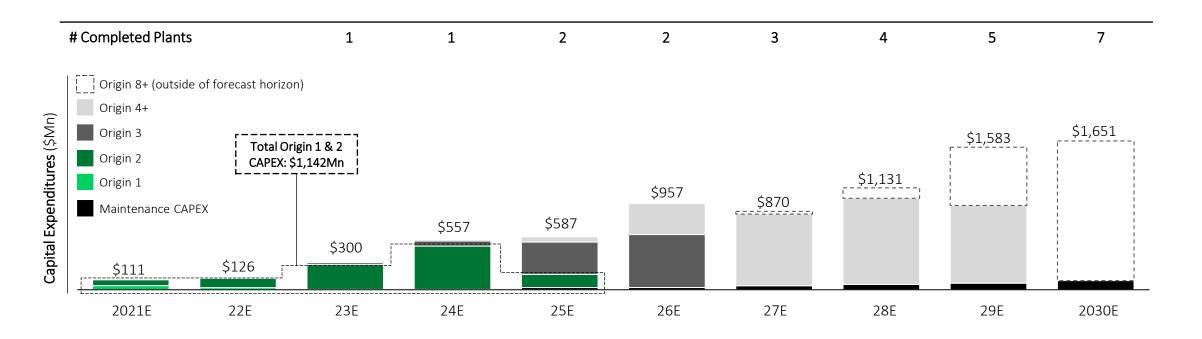
Cash Flow Sources & Uses from 2021E to Origin 2 Revenue in 2025E (\$Mn)

	June 2021 Forecast
Gross Proceeds	\$529
Plus: Existing cash balance	3
Less: Transaction fees and expenses (net of prepaid out of existing cash balance) ¹	(61)
Net Cash Balance ²	\$471
Add: Project Financing ⁴	\$804
Add: Local, State, and Federal Government Incentives / Support ⁴	185
Less: Origin 1 Growth CAPEX ⁵	(70)
Less: Origin 2 Growth CAPEX ⁵	(1,072)
Less: Cash Flow from Operations '21 – '25 ³	(218)
Remaining Cash to Fund Origin 3 and Beyond ⁶	\$100

^{1.} Transaction expenses figure excludes \$3Mn prepaid out of existing cash balance; total transaction expenses including prepaid is \$65Mn. 2. Assumes none of the Artius warrants to acquire 35.5Mn shares are exercised. 3. Cash flow from operations calculated as EBITDA + Working Capital + Maintenance CAPEX from 2021 until reaching Origin 2 revenue in 2025. 4. Project financing and government incentives / support have not yet been secured. 5. Origin has confirmed its estimates for construction cost after considering the latest input from various suppliers, construction companies and consultants specializing in chemical plant constructions. Origin has built into its capital budget for Origin 1 and Origin 2 contingencies as a reserve for any unexpected construction "overrun" that are appropriate at this stage of planning. 6. Defined as net proceeds less annual cash flow from operations less equity financed growth CAPEX for Origin 1 and 2. Source: Origin Materials management estimates. As previously reported on Origin's Form 8-K filed on August 12, 2021.



Anticipated fully funded growth plan to profitability



- Current transaction and anticipated financing and grants are expected to be sufficient to fully finance the construction of Origin 1 and Origin 2 and achieve EBITDA profitability
- CapEx based on estimates from world-leading EPC companies that Origin will partner with to deliver holistic capital project solutions
- Capacity scaling based on current customer contract commitments / orders and anticipation of demand from global industrial complex rushing to secure "drop in" decarbonized materials to meet their carbon commitments

Share count as of 9/30/2022

Class	Outstanding Shares of Common Stock		
Total Shares Outstanding ¹	138,203,935		
Shares subject to forfeiture ¹	4,500,000		
Total Shares Outstanding, including Shares subject to forfeiture ¹	142,703,935		
	Shares Reserved for Future Issuance Pursuant to Potential Earnouts, Outstanding Warrants, and Options		
Public Warrants ²	24,149,960		
Private Warrants ²	11,326,667		
Legacy Origin Earnout Shares ³	25,000,000		
Options and RSUs ^{4, 5}	15,614,380		
Total Shares 5	218,794,942		



^{1. 4.5} million shares held by a certain stockholder subject to forfeiture in three equal installments unless our Common Stock reaches certain trading price thresholds within certain specified time periods (10 consecutive trading day closing volume weighted average price targets of \$15, \$20, and \$25 within 3, 4 and 5 years after the closing of the business combination between Artius and legacy Origin (the "Business Combination"), respectively) 2. Warrant exercise price = \$11.50 per share. 3. 25,000,000 Earnout Shares are subject to issuance in three equal installments if our Common Stock reaches certain trading price thresholds within certain specified time periods (10 consecutive trading day closing volume weighted average price targets of \$15, \$20, and \$25 within 3, 4 and 5 years after the closing of the Business Combination, respectively). 4. Includes 5,132,046 options with a weighted average strike price of \$0.17/share and 1,481,531 performance-based options at \$0.14/share (423,294, 634,942, and 423,295 performance-based options vest if our Common Stock reaches volume weighted average price thresholds of \$15, \$25, and \$50 per share respectively for 10 consecutive trading days), 1,169,303 Restricted Stock Units, and 2,610,500 Performance Stock Units under which the maximum award can be up to 7,831,500 shares. 5. Excludes shares available for future issuance pursuant to our equity incentive plan and employee stock purchase plan.

Reconciliation of GAAP and Non-GAAP results

We believe that the presentation of Adjusted Earnings before Interest, Taxes, Depreciation, and Amortization (Adjusted EBITDA) is appropriate to provide additional information to investors about our operating profitability adjusted for certain non-cash items, non-routine items that we do not expect to continue at the same level in the future, as well as other items that are not core to our operations. Further, we believe Adjusted EBITDA provides a meaningful measure of operating profitability because we use it for evaluating our business performance, making budgeting decisions, and comparing our performance against that of other peer companies using similar measures.

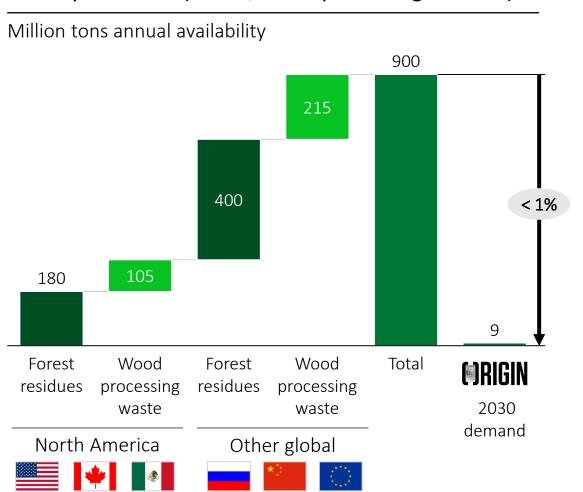
We define Adjusted EBITDA as net income or loss adjusted for (i) stock-based compensation expense, (ii) depreciation and amortization, (iii) interest income, (iv) interest expense, net of capitalized interest, (v) change in fair value of derivative liabilities, (vi) change in fair value of warrants liability, (vii) change in fair value of earnout liability, (viii) professional fees related to completed mergers, and (ix) other income, net.

	Thr	Three months ended September 30,		Nine months ended September 30,				
(in thousands)		2022		2021		2022		2021
Net income	\$	8,299	\$	27,893	\$	62,576	\$	36,853
Stock based compensation		1,146		636		3,719		4,808
Depreciation and amortization		180		126		488		363
Interest income		(2,309)				(6,077)		_
Interest expense, net of capitalized interest		_		_				2,839
Change in fair value of derivative liabilities		(1,129)		_		(1,725)		1,426
Change in fair value of warrants liability		1,419		(13,481)		(15,610)		7,363
Change in fair value of earnout liability		(15,147)		(21,511)		(63,561)		(67,008)
Professional fees related to completed mergers		_		640		_		640
Other income, net		(879)		(27)		(1,577)		(651)
Adjusted EBITDA	\$	(8,420)	\$	(5,724)	\$	(21,767)	\$	(13,367)



Origin is not feedstock limited

Primary feedstock (forest / wood processing residues)



Additional feedstock optionality





Additional feedstock supply available above forest / wood processing residues alone

Origin will look to value chain participants to complement its strengths





"Our proprietary bread and butter"

Proprietary technology in a league of its own

Picture: Origin 1



"Putting it all together"

- We will leverage an already-existing industrial base of monomer, polymer, additive, and packaging / extrusion technology
 - Beyond Origin 2 (monomers), we will license or sell that technology to a value chain participant

Illustrative potential value chain participants¹:

















"Clear market pull"

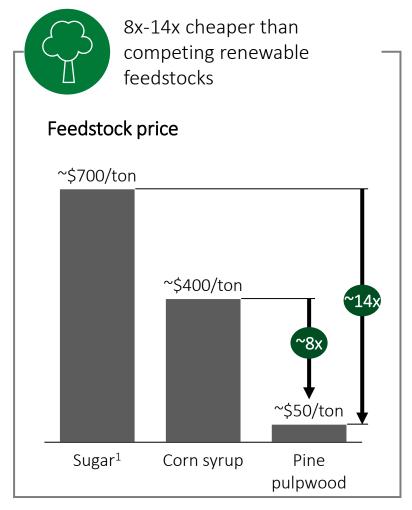
Years of experience working with the end consumer to address sustainability goals

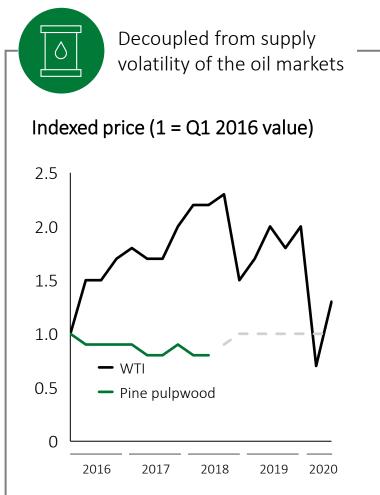


Origin is in discussions with multiple partners and is ready to scale its strategy through its next phase of growth



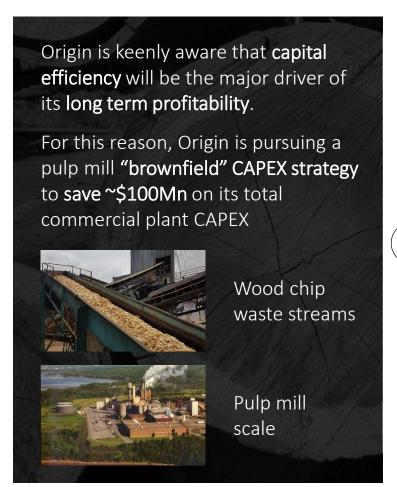
Origin's use of timber and forest residues as feedstock is a potential game changer







Origin is pursuing a capital efficient strategy to optimize CAPEX



Origin's strategy:

#1

Identify & purchase mill

Work with partners to identify suitable aging / defunct pulp mill

>40

Potential brownfield sites (e.g., closed pulp mills) in the US & Canada built in the last 50 years

 \sum

#2

Convert equipment

Leverage key components needed for its wood handling process (e.g., utilities, boiler, wood yard)

>\$100Mn

Total useable value of converted equipment, even after considering expected upgrade costs

#3

Integrate & operate

Integrate refurbished components into the rest of its necessary equipment / plant infrastructure

Up to 15%

Net savings on total plant CAPEX, or ~\$100Mn co-location benefit

Pulp mill "brownfield" strategy offers additional benefits, including the existing forest supply chain ecosystem and local gov't incentives

Origin has added extensive technical, operational, and commercial leadership since February 2021 announcement to go public (1 of 5)



sasol 💥

FLUOR.

Matt Perkins
Engineering Director,
Projects

- 23+ years with Fortune 500
 Owner/Operator and Engineering,
 Procurement, and Construction
 ("EPC") companies, including Sasol,
 Fluor Corporation, and Dow
 Chemical Company
- Experienced in the design, procurement and construction of industrial assets, including petrochemical technologies





Zan Liu, PhDTechnical Manager

- 15+ years of experience in basic/applied research, process development, pilot unit design and operation, and process/reactor scale-up
 - At Lummus Technology, inventor of award-winning technology C5 CDAlky (2019 Hydrocarbon Processing Award)



OUPONT?

CABOL

PRAXAIR

Bill Williams, PhD
Director of Process
Development –
Carbon Black

 Process development leader with expertise in reaction engineering and catalysis
 Formerly at Dupont, Birla Carbon, Cabot Corporation,



Bill Gong, PhDSenior Scientist

- 25+ year career as a research scientist at Amoco Chemicals/BP
- Expertise in oxidation catalysis in PTA and diesel fuels



James Lattner, PhD Technical Fellow

- Retired as Chief Engineer at ExxonMobil Chemical after 40+ years
- ExonMobil

 3+ years consulting and teaching Chemical Engineering classes at the University of Houston



Chris StarkCommercial Director

 Served 20 years in the Marine Corps at the Department of Defense leading cross functional teams, working with and through international partners to complete projects







Jay Hanan, PhD Technical Director

Praxair

- 300+ science and engineering publications and almost 300 patents
- Inducted into the National Academy of Inventors
- Former Chief Scientist, Niagara Bottling; formerly with NASA Jet Propulsion Laboratory





Sealed Air

Ron Moffitt, PhD Polymer Principal Scientist

- Registered professional engineer with 38+ years of experience in polymer research, development, processing, and manufacturing of fibers, films, and containers
- Formerly at The Coca-Cola Company, Sealed Air Corporation



Origin has added extensive technical, operational, and commercial leadership since February 2021 announcement to go public (2 of 5)



Worley

BURNS MEDONNELL.



Process Design Manager

- 19 years in engineering and construction industry spanning all EPC project phases in regions ranging from Mumbai, India to Texas and Oklahoma
- Formerly at Burns & McDonnell, WorleyParsons



Jacobs

Robert (Bob) Nissen Project Director

- 30 years of diversified project management experience in the refining. chemical, fertilizers, liquified natural gas storage, and mining and minerals industries
- Formerly at Jacobs Solutions. BP Amoco



Worley

BURNS MEDONNELL.



- Experience leading teams on capital projects of many sizes and stages of development including international and domestic projects
- Formerly at WorleyParsons, Process Technology Manager at Burns & McDonnell



HEXCEL

TEREX

Mark DiGiambattista Product Stewardship and Regulatory Manager

- 15+ years of regulatory and product stewardship experience in medium to large publicly listed companies
- Former Regional Product Stewardship Manager at Hexcel Corporation; formerly at Terex Corporation, Occidental Petroleum Corporation





:::siluria

Wayne Schammel, PhD

Senior Scientist

- 43 years in Industrial R&D, 33 in large petrochemical companies, 10 in startups
- 50 US patents
- Formerly at Amoco Chemicals, BP Petrochemicals, Siluria **Technologies**



Victor Adamian, PhD Oxidation Technical Director

- 25+ years of academic and industrial experience in chemistry and catalysis, including 23 years with BP Petrochemicals
- Early proponent of sustainability activities at BP Petrochemicals



Anna Richer Engineering Manager

- 14+ years of chemical industry experience in various engineering and project execution roles
- Experienced leader across operations, logistics, maintenance, and project CORTEVA (execution functions
 - Formerly at Dow Chemical Company, Corteva Agriscience



specializing in retrofit and revamp projects

Ryan Donahe

Prior experience includes Eastman Chemical Texas City and WorleyParsons

Senior Process Engineer

16 years experience



Worley





Origin has added extensive technical, operational, and commercial leadership since February 2021 announcement to go public (3 of 5)



Bamidele Ali Director of Product Development

- Has run several successful businesses within Fortune 100 companies
- GE Healthcare

 Prior experience includes GE Healthcare, XG Sciences, DSM Functional Materials and Danaher Corporation



E‰onMobil

Colin Schumaker Technology Economic Modeling Director

 Experience working for ExxonMobil Chemicals as a Process Engineer, Business Analyst and Olefins Coordination Supervisor



AMERICAN SOCIETY OF INTERIOR

Bryan SoukupPolicy and Legislative Affairs Director

- Served as VP of Government and Public Affairs for the American Society of Interior Designers
- Led the resilience and sustainability public policy portfolio for the International Code Council



Sensata

Micron

Karl Stuen, PhD
Materials Engineering
Manager

 16+ years developing products and technologies in the fields of microelectronics (Micron Technology), adhesives and coatings (Brady Corporation and NuLabel Technologies), and industrial sensors (Sensata Technologies)



Worley



Sara CravenSite and Plant Director, Origin 1

- Operations and continuous improvement leader, with 20 years of professional process engineering and management experience in the petrochemical, industrial gases and fertilizer industries
- Formerly at CF Industries, WorleyParsons



Tokunbo BalogunEnvironmental Health and Safety Manager

Seasoned health, safety, and environment professional with in-depth knowledge of workplace hazards and environmental aspect identification & management Formerly at Shell plc and Qatar Energy



the b

Sam Najjar, PhDSr. Application Technology Manager

- 20+ years industrial experience including in the electronics and the beverage PET bottling industry in product development management, business development management, and innovation program management
- Formerly at Arlon Electronic Materials, Rogers Corporation



Elevance

MILACRON

Tom Degnan Director Global Supply Chain, Logistics & Trade Compliance

- Extensive career in global supply chain, logistics, distribution, and trade compliance with start-up to Fortune 250 companies to a successful consulting practice
- Formerly at Elevance Renewable Sciences, Milacron



Origin has added extensive technical, operational, and commercial leadership since February 2021 announcement to go public (4 of 5)



Coca Cola MARS **DAK Americas**



Norm Lisson Polyester Manufacturing

Technical Director

- 25 years in the polyester supply chain
- Deep understanding of virgin and recycle PET producer challenges from tenures with Celanese Corporation and DAK Americas
- Formerly at The Coca-Cola Company, Mars



K KOCH. FLINT HILLS



Rob Strain Commercial Director

- Over 30 years at Koch Industries, including Flint Hills Resources
- Extensive experience executing growth capital plans and business deals resulting over \$2 billion dollars of high return investments
- VP, Business Development at Gevo



Ex/onMobil

Honeywell UOP

Chad Huovie Technical Director

- 25+ years refining and downstream business and project development experience
- Holds seven U.S. patents
- Formerly at ExxonMobil Corporation, Honeywell UOP



U.S. DEPARTMENT OF ENERGY

Paul Bryan, PhD **Technical Director**

- R&D leader with expertise in separations technology, biomass conversion, thermodynamics, and process R&D and commercialization
- 20 years industry experience
- Formerly at Chevron Corporation, Union Carbide Corporation, United States Department of Energy



E%onMobil

Andrew Palermo, PhD **Chemical Process Development Engineer**

- Experience as Senior Research Engineer at ExxonMobil Chemicals
- At ExxonMobil, received Global Technology Award and named Innovator of the Year



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Himanshu Patel, PhD

Dir. of Product Development -Carbon Products

- 10+ years Birla Carbon, global growth and technical business development leader
- Expertise in polvester reaction engineering and rubber compounds
- Formerly at Continental AG



Continental Carbon*

Formosa Plastics"



- Sales and marketing leader with expertise in polyethylene, polypropylene resins, engineered compounds for injection molding, blow molding and sheet applications
- Formerly at Continental Carbon Company, Formosa Plastics Corporation



Alpen Shah **Engineering Project** Manager

- Professional Engineer with 25+ years in engineering & project leadership roles in manufacturing organizations in Imperial Canada and abroad
 - Formerly at Shell plc, Imperial Oil, WorleyParsons







Origin has added extensive technical, operational, and commercial leadership since February 2021 announcement to go public (5 of 5)



Ex/onMobil

Gaurav Agrawal, PhD Chemical Process Development Engineer

- 10+ years of experience in separation technologies, process development and scale-up
- At ExxonMobil Corporation, received a Global Research Award, Global Technology Award and commercialized two technologies



Berkeley

Junnan Shangguan, PhD

Research Scientist

- Chemical engineering PhD with extensive research experience in reaction kinetics, thermodynamic, and heterogeneous catalysis
- Postdoctoral researcher at UC Berkeley



∢DUPNNT≥

Henry Bryndza, PhD Consultant

- 39+ years at DuPont, most recently as Global R&D Director
- Significant experience building value through technologyenabled, sustainable growth across chemistry, materials science, and biotechnology domains

Glossary

Abbreviation	Explanation						
Carbon negative	Carbon negative activities or products go beyond achieving reduced carbon impact, or net zero carbon impact, to actually remove additional carbon dioxide from the atmosphere						
CMF	5-Chloromethylfurfural, organic compound obtained from dehydration derivatives						
FDCA	2,5-Furandicarboxylic Acid, organic compound that is a renewable resource because it can be produced from carbohydrates						
HTC	Hydrothermal Carbon, structured compounds that have been converted from organic compounds						
PET	Polyethylene Terephthalate, most common thermoplastic polyester used for packaging foods and beverages						
PEF	Polyethylene Furanoate, bio-based thermoplastic polyester also primarily used for packaging						
рХ	Paraxylene, an important chemical feedstock used in the large scale synthesis of various polymers						



