

Company Overview

The world's leading carbon negative materials company

August 24, 2021

Forward looking statements and disclaimers

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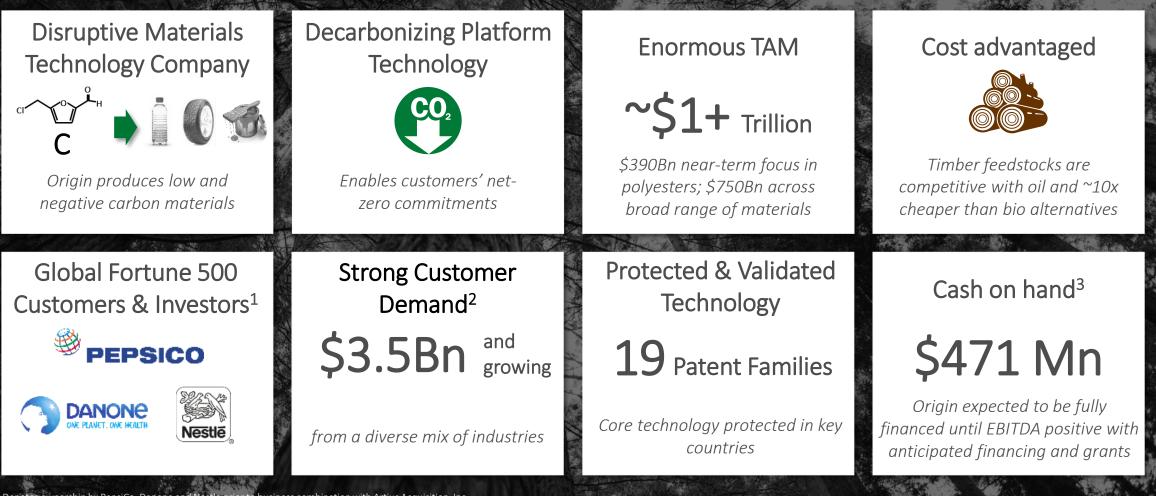
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Origin Materials – At a Glance

The world's leading carbon negative materials company



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

2. Includes \$264Mn specified as customer options. Figures assume maximum offtake amounts and exercise of full customer options. Refer to slide 20 for additional detail.

3. As of June 30, 2021. Refer to slide 37 for additional detail

Source: Origin Materials.

As previously reported on Origin's Form 8-K filed on August 12, 2021

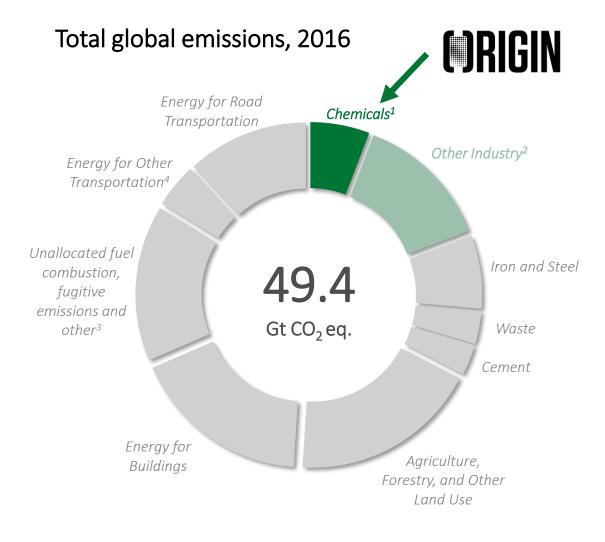
Leading institutions are committing to a net zero future

The global industrial complex is committed to decarbonization

2030 2030-2040 2040 - 2050 AT&T Michelin Patagonia patagonia Carbon neutral by 2025 Net zero by 2035 Net zero by 2050 MICHELIN Walmart Proctor & Gamble bp BP Walmart 🔆 P&G Net zero by 2040 Net zero between 2020 - 2030 Net zero by 2050 PepsiCo Siemens Danone SIEMENS PEPSICO Net zero by 2040 Net zero by 2030 het zero by 2050 LG Amazon Ford G amazon Carbon neutral by 2030 Net zero by 2040 Net zero by 2050 Nestlé IKEA Mercedes Benz X Carbon negative by 2030 Net zero by 2050 Net zero by 2040 Nestlé Mercedes-Benz Microsoft Best Buy Nike Microsoft BEST Carbon negative by 2030 Net zero by 2040 Net zero by 2050 Unilever **General Motors** Shell Carbon neutral by 2040 Net zero by 2050 Carbon neutral before 2030 Unilever

Note: Page not intended to represent that these are all Origin customers. Source: Press search and company websites. As previously reported on a Rule 425 filing of Artius Acquisition, Inc. dated April 19, 2021.

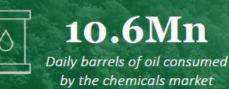
Nearly half of all global emissions come from making products



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

Fossil-based

Emitting



2.78kg

Carbon emissions per ka

of fossil-based PET

produced

Sustainable-based

<1%

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

Avoiding

>100%

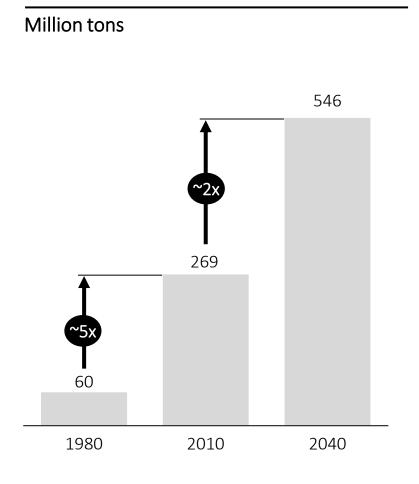
Carbon reduction for Origin's PET vs. fossil-based PET

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.



Ubiquitous plastics are a prime target to begin reducing carbon emissions



Plastics enable modern life...

... but we need better, scalable solutions



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

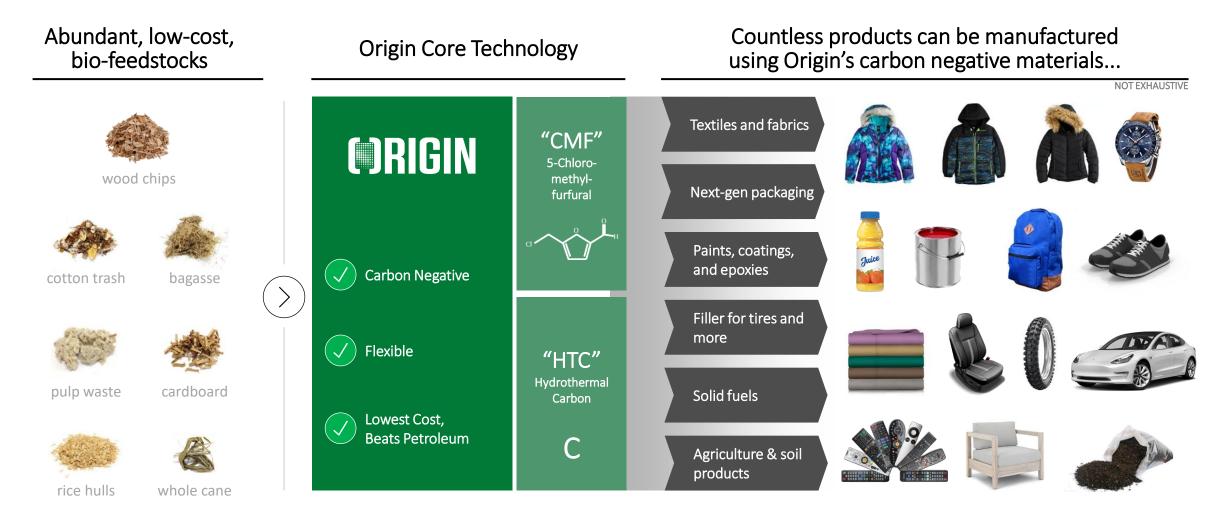


Sustainable, end of life solutions (recycle first)

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



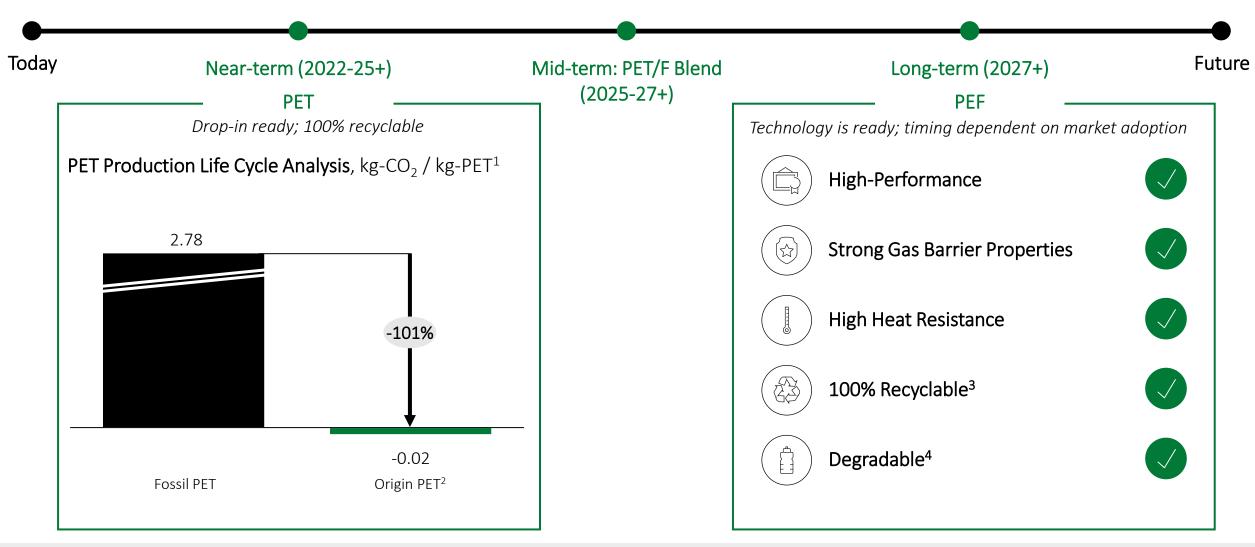
The Origin platform: 'Once in a planet' shift from fossil to decarbonized materials



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



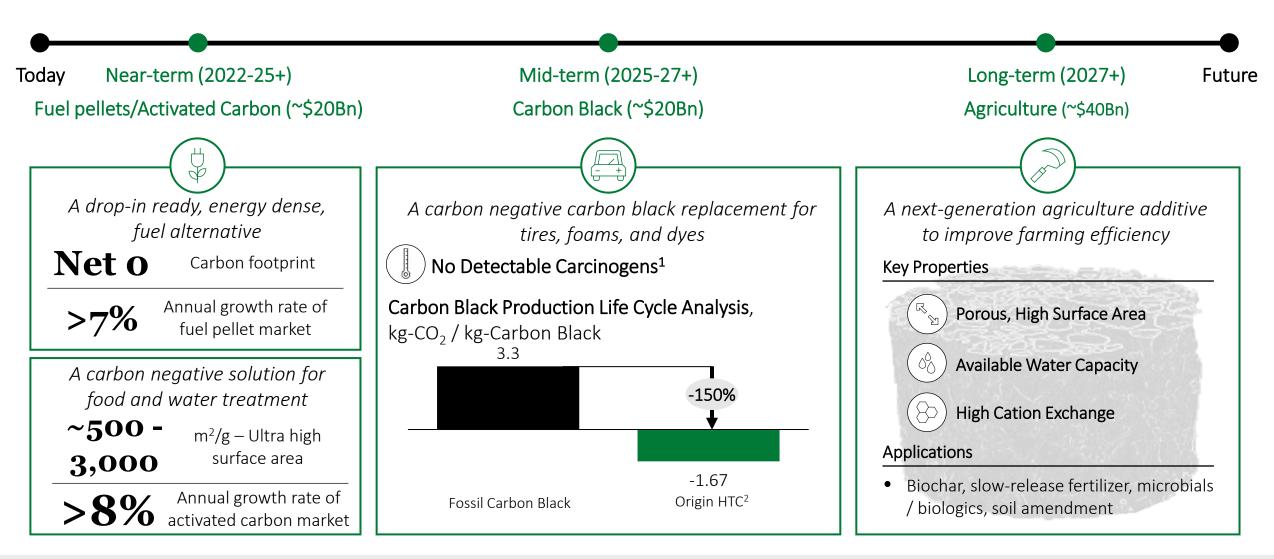
Origin's CMF is a carbon negative solution for recyclability and degradability



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



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

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

Origin's platform technology decarbonization impact

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

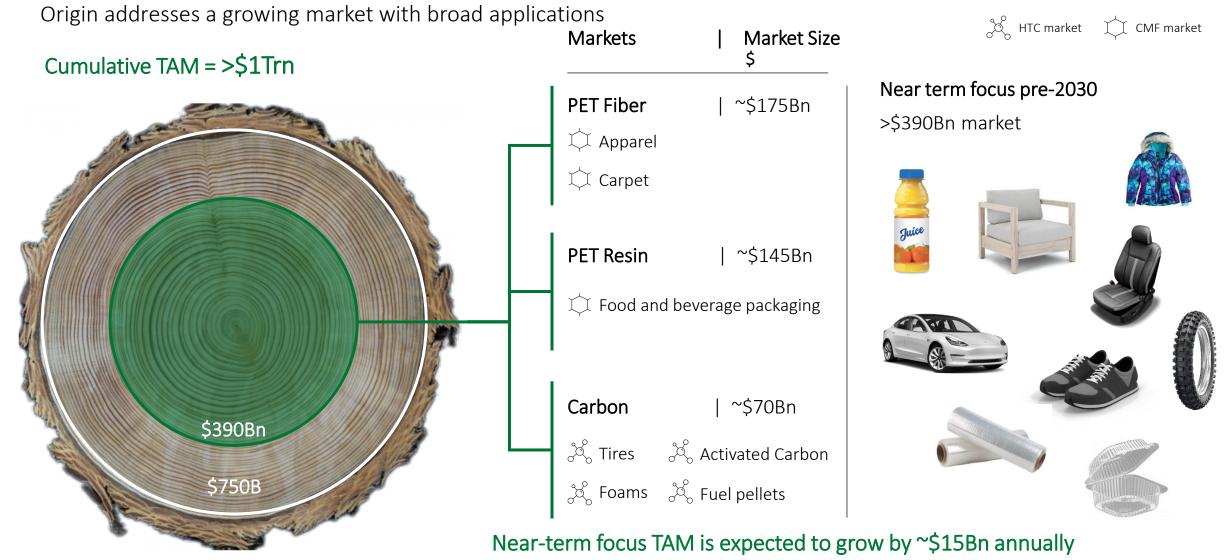


1. Million Metric Tons.

Source: Origin Materials calculations based on 6 commercial scale plants and plant life cycle impact estimates. U.S. Environmental Protection Agency greenhouse gas equivalencies calculation: https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator As previously reported on a Rule 425 filing of Artius Acquisition, Inc. dated April 19, 2021.



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



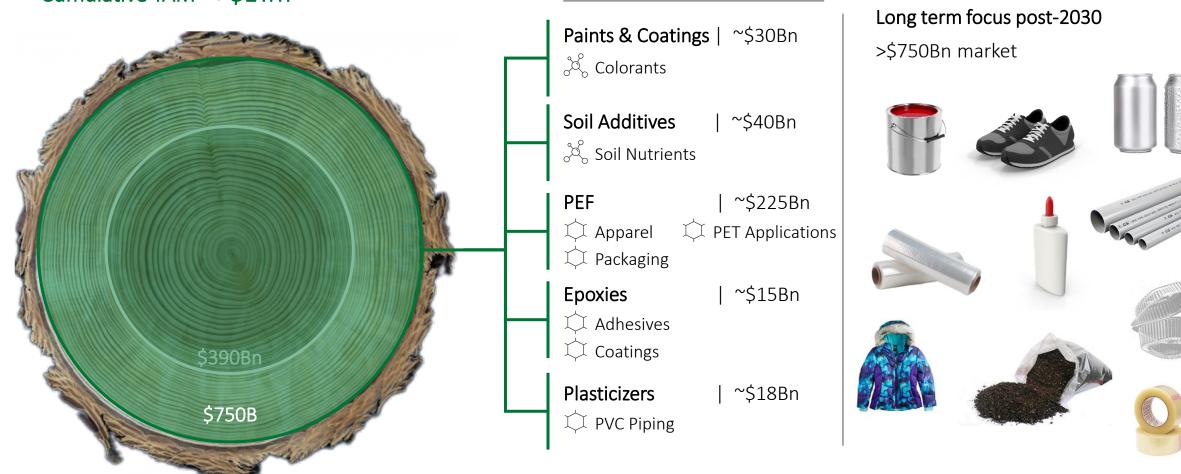


Estimated total addressable market for Origin products is more than \$1Trn

Market Size

Origin addresses a growing market with broad applications Select Markets

Cumulative TAM = >\$1Trn



Source: Origin Materials management estimates based on 2030 addressable market. As previously reported on a Rule 425 filing of Artius Acquisition, Inc. dated April 19, 2021. ွထို HTC market

CMF market

Origin is supported by Global Fortune 500 companies

PackagingNews



R&D partnership to develop 100% bio-based bottles.





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



~20

Commercial facilities required to meet PET demand¹

DRIGI

1. Illustrative opportunity from fulfilling estimated PET portion of PepsiCo, Danone, and Nestlé Waters combined annual consumption of 4.75 million tons of plastics / year. Source: Company websites; Origin Materials management estimates.

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

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





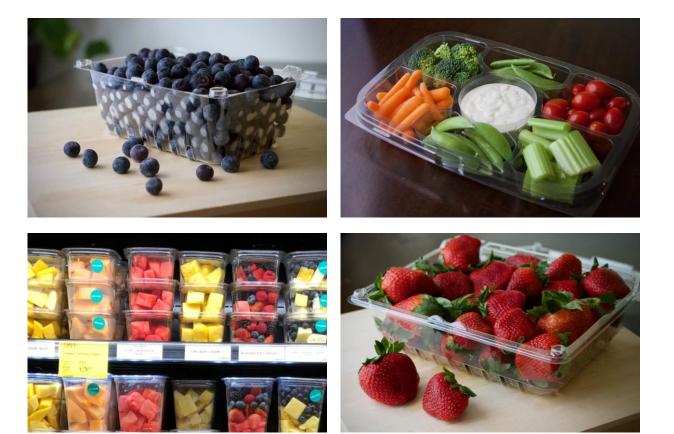


Packaging Matters Partnership



"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."







SOLVA

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



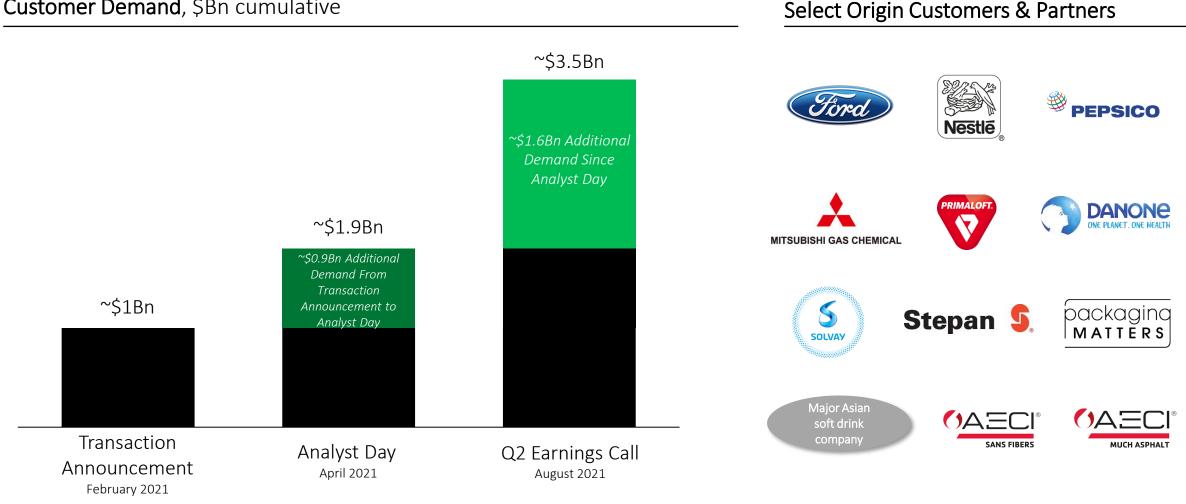




Origin has grown customer demand by ~\$2.5Bn since announcing transaction

Total demand is \$3.5Bn in either offtake agreements or capacity reservations¹

Customer Demand, \$Bn cumulative

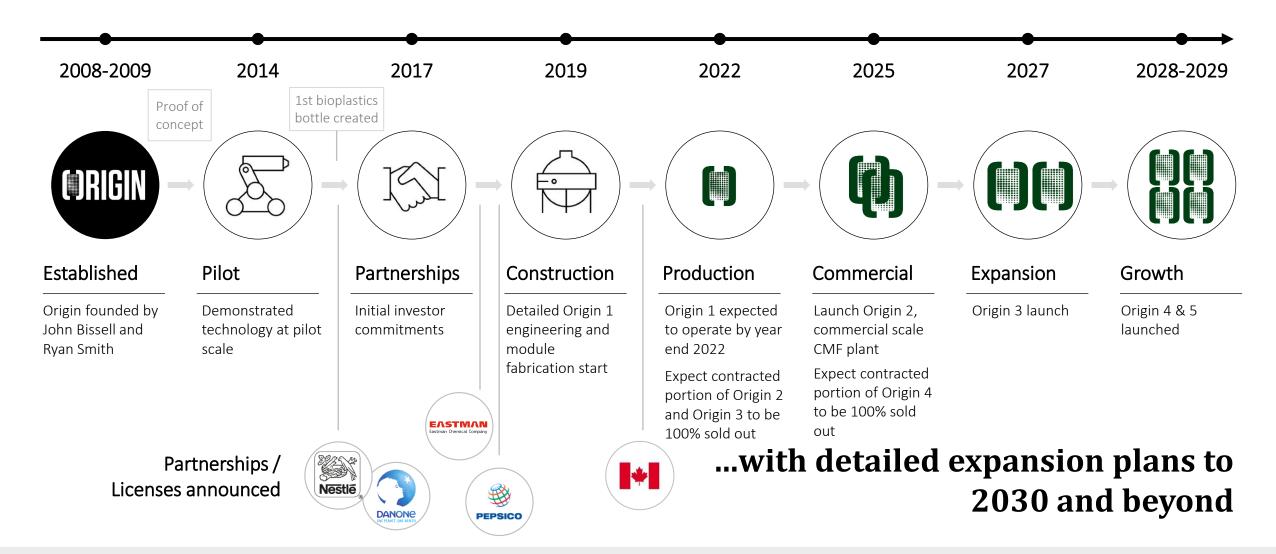


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1. Includes \$264Mn specified as customer option. Figures assume maximum offtake amounts and exercise of full customer option.

Source: Origin Materials.

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





Construction – process modules

The 17 completed core process modules, fabricated by Koch Modular, are ready for installation at Origin 1 site in Sarnia, Ontario.

- The unique, Origin-specific technology components of Origin 1 are already fabricated
- Installation involves lifting these units from the horizontal position (per the images) to vertical on bolted concrete foundations
- The modules weigh about 60 to 75 tons each
- The bottom image shows key piping support, instrumentation, valves, and control junction boxes
- Origin has already completed installation of most foundations for building and process areas at the construction site

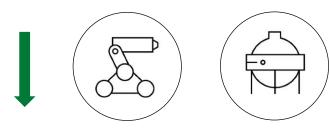




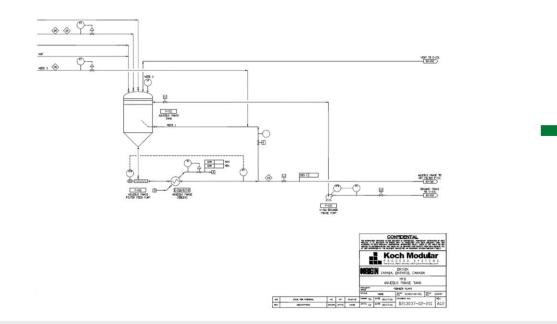


Construction – Origin 1 story (1 of 2)

>10 years bench/pilot scale chemistry & engineering



Origin 1 design



Origin 1 core technology module fabrication





Construction – Origin 1 story (2 of 2)



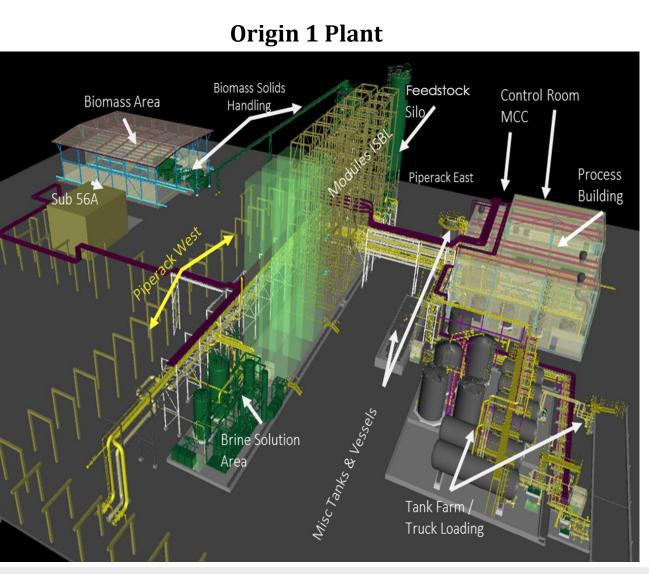
Foundations



Tanks & other equipment

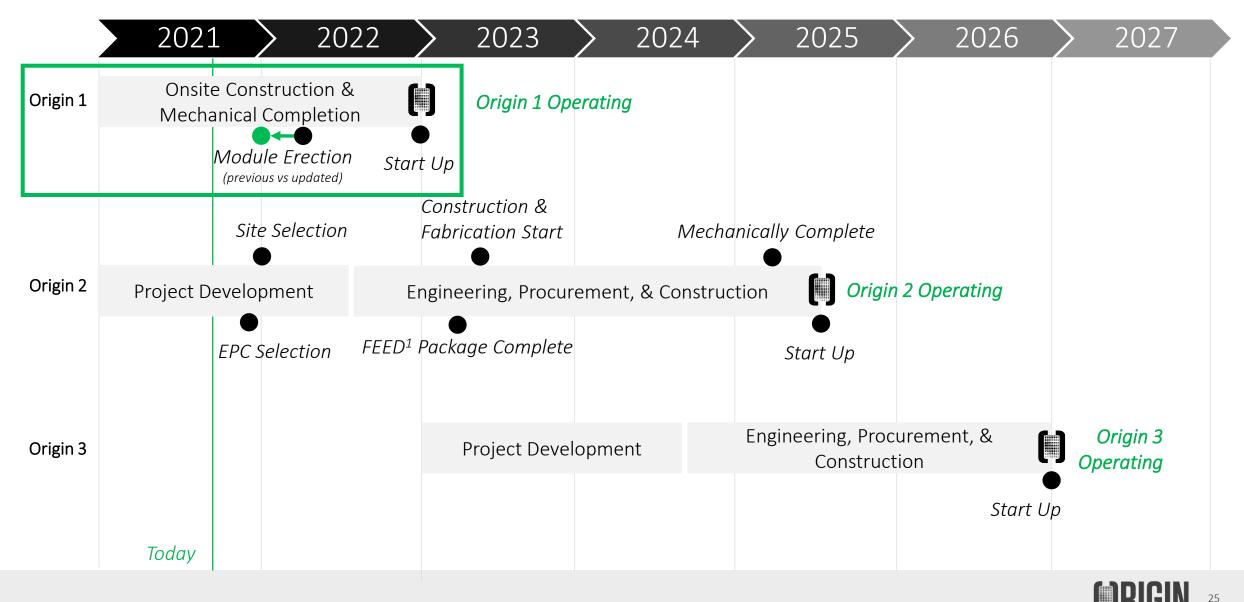
Core technology modules







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

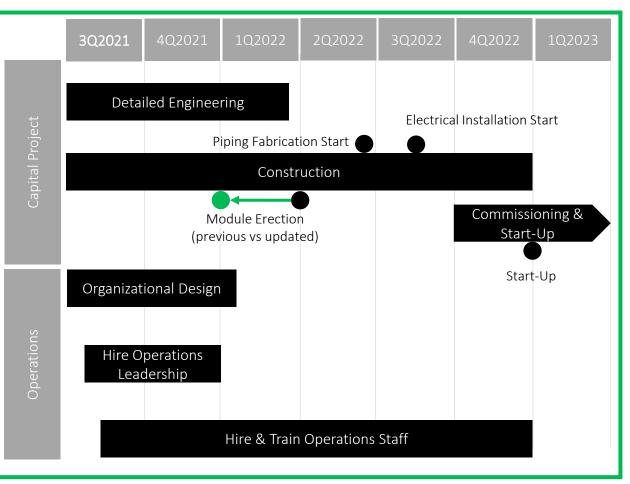


1. Front-end engineering design.

Construction schedule – Origin 1

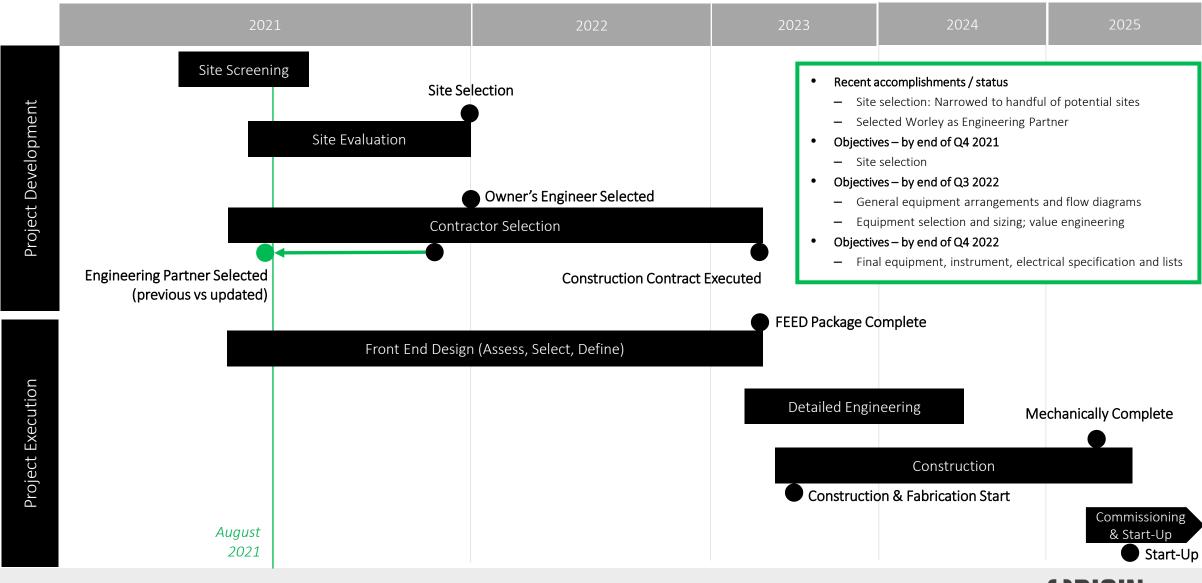
- Origin 1 plant purpose
 - Produce CMF and HTC at commercial volumes
 - Produce CMF and HTC and other intermediates in volumes that allow customers to qualify products and applications other than PET
- Recent accomplishments / status
 - Engaged Worley as our engineering partner
 - Engaged additional key engineering & construction mgmt. partners
- Objectives by end of Q3 2021
 - Achieve activities required to enable module lift by end of Q4 2021
 - Hire Process Automation Lead, additional Project Manager/ Project Engineer
- Objectives by end of Q4 2021
 - Hire Origin 1 operating leadership: Site & Plant Director, Operations Manager, Site EHS&S (Environmental Health, Safety, and Security) Manager
 - Complete structural elements of plant ISBL and complete foundations of auxiliary process buildings
 - Erect main plant modules
- Objectives by end of Q1 2022
 - Receive additional major equipment (tanks, etc.)
 - Receive ENCON evaporator modules
- Objectives by end of Q2 2022
 - Piping fabrication start
- Objectives by middle of Q3 2022
 - Piping & electrical installation start

Origin 1 Timeline (Detail View)





Construction schedule – Origin 2



27

Construction – execution

Recent Additions to Technical Leadership Team – Proven Expertise in Plant Construction & Technology Scale-Up

Capital Project Partners



Bob Nissen Origin 2 Project Director





David Ballow Origin 2 Process Technology Director

BURNS



Phil McAllister

Origin 1 Project Director

Koch Modular PROCESS SYSTEMS



Deloitte.





Jim Wells Technical Director





Madhu Anand, PhD Technical Director





Ben Freireich, PhD Technical Fellow

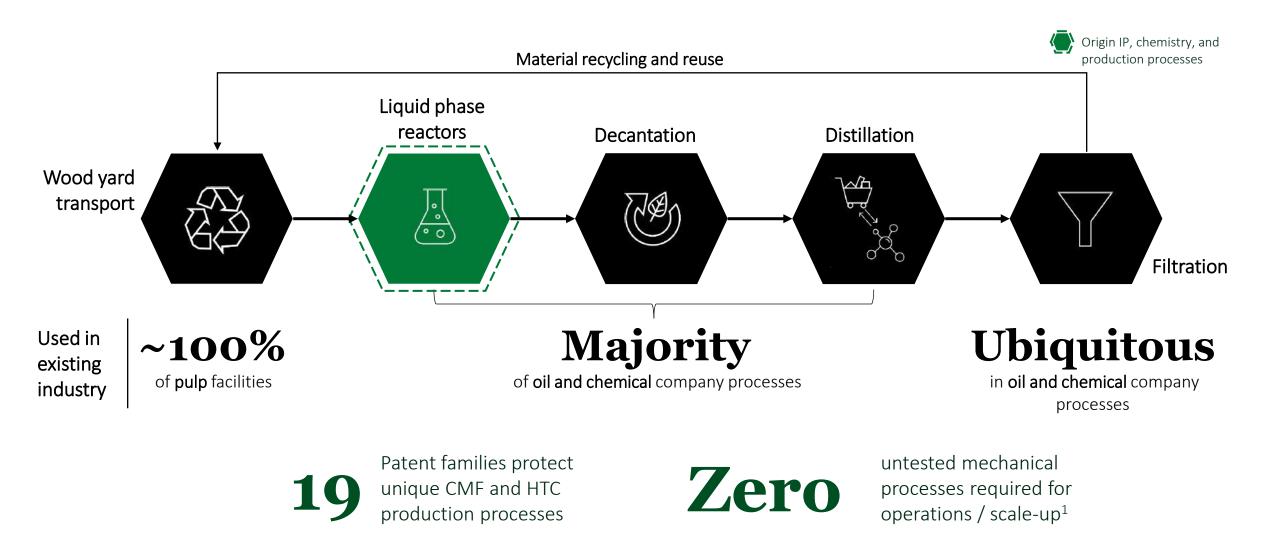


Fisher

Jacobs



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

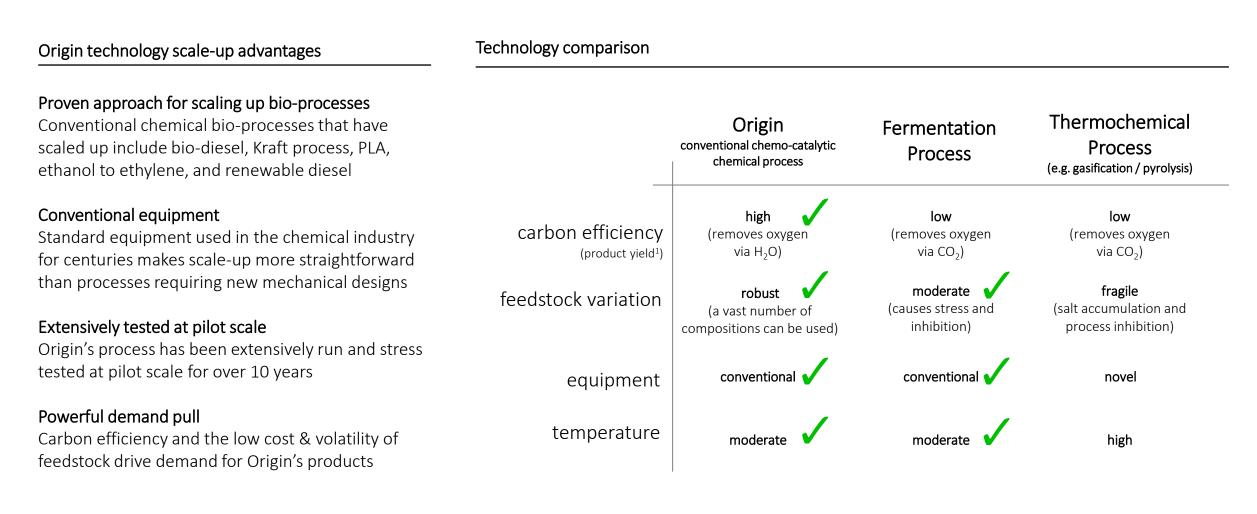


1. Origin does not rely on any novel mechanical processes in its plants. All of Origin's mechanical processes are standard mechanical processes utilized in the chemicals and refining industry. Source: Origin Materials.

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

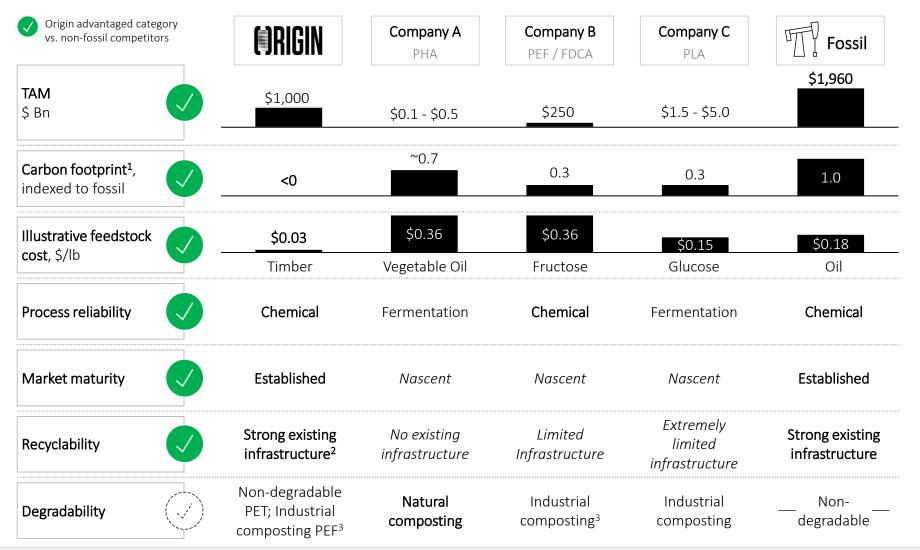
Origin's technology uses conventional chemical processing, which is inherently well suited to scale-up

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





Origin has meaningful advantages over bioplastics companies



1. For end product; carbon footprint based on publicly available feedstock footprint for analogous biofuels process (CORSIA, REDII). 2. Refers only

to PET. 3. Further study needed to determine if industrial composting reproduces results observed in degradation studies.

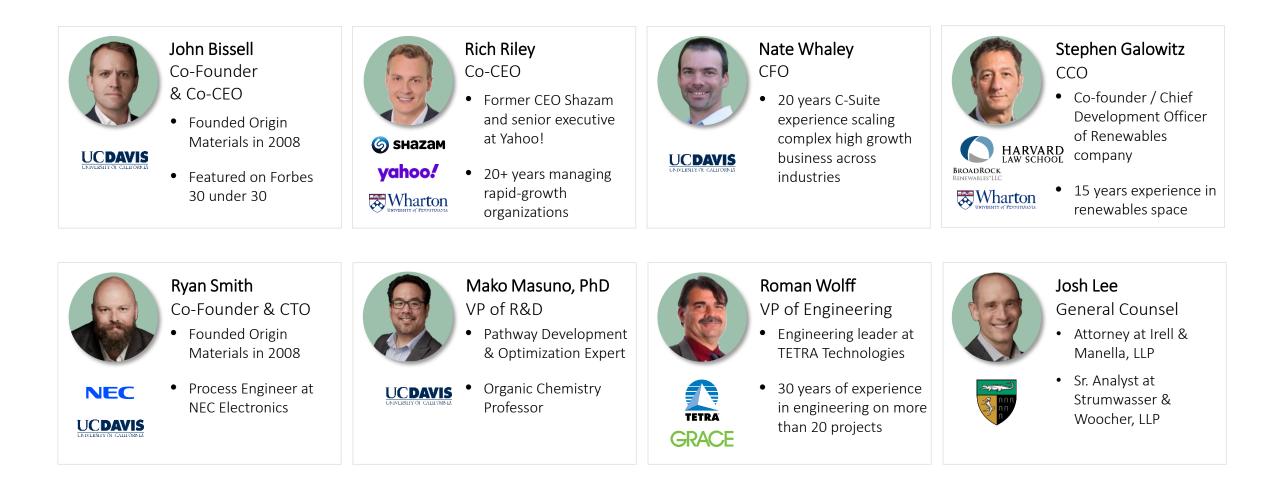
Source: Company websites, filings and press releases; Market and technical research reports; Origin Materials management team.

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

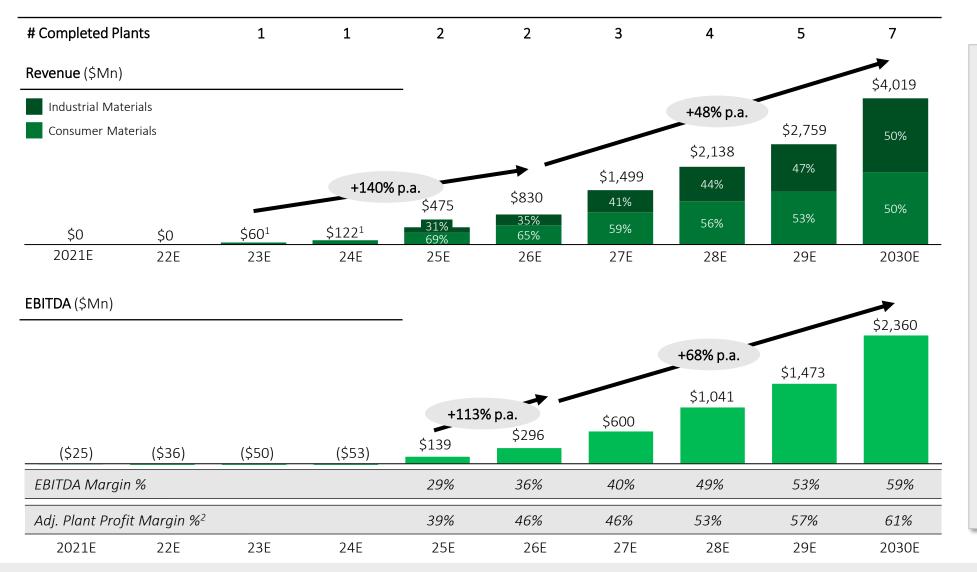




DRIGIN

Appendix A: Previously Disclosed Financial Details (Analyst Day 4/19/21, 8-K, 10-Q Filings)

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



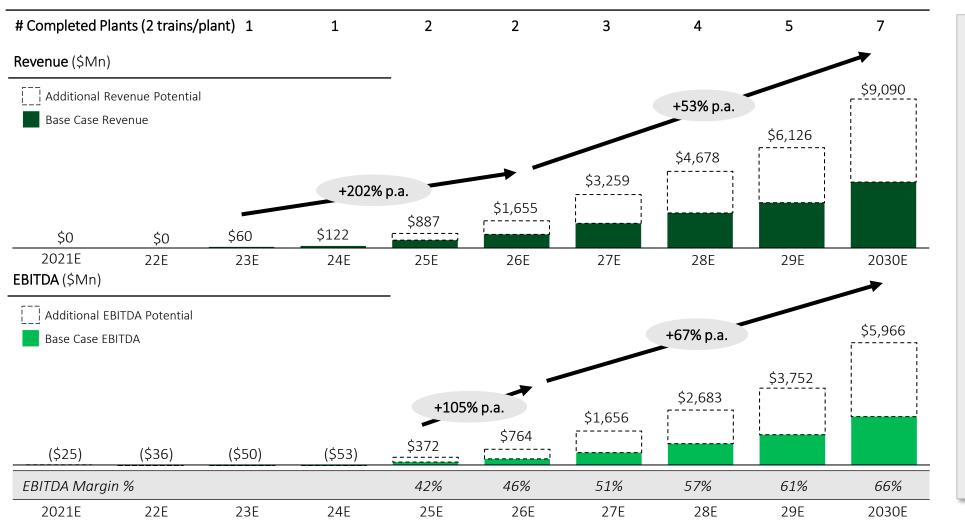
- Revenue and materials volume forecast / growth based on satisfying existing customer offtake contracts and expected future demand
- Pricing assumptions are based on negotiated contract pricing with existing customers
- Feedstock cost assumptions reflect historically low volatility of pine pulpwood 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

Source: Origin Materials management estimates. 1. 100% of revenue allocated to consumer materials. 2. A non-GAAP measure defined as Revenue less all plant direct cash costs (excluding depreciation, amortization, interest and taxes) divided by revenue.

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



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



1. Subject to capital availability. Source: Origin Materials management estimates. As previously reported on a Rule 425 filing of Artius Acquisition, Inc. dated April 19, 2021.

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	¢177		\$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		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 on May 25, 2021.

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

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



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				
Net Cash Balance ²	\$471			
	6004			
Add: Project Financing ⁴	\$804			
Add: Local, State, and Federal Government Incentives / Support ⁴				
Less: Origin 1 Growth CAPEX ⁵	(70)			
Less: Origin 2 Growth CAPEX ⁵	(1,072)			
Less: Cash Flow from Operations '21 – '25 ³	(218)			

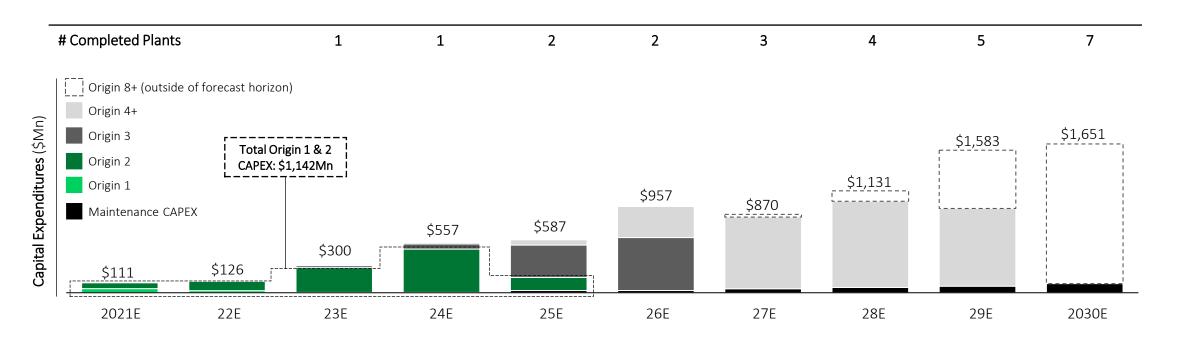
Remaining Cash to Fund Origin 3 and Beyond⁶

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.



\$100

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

Class	Outstanding Shares of Common Stock
Total Shares Outstanding ¹	136,748,470
Shares subject to forfeiture ¹	4,500,000
Total Shares Outstanding, including Shares subject to forfeiture ¹	141,248,470
	<u>Shares Reserved for Future Issuance</u> <u>Pursuant to Potential Earnouts,</u> <u>Outstanding Warrants, and Options</u>
Public Warrants ²	24,150,000
Private Warrants ²	11,326,667
Legacy Origin Earnout Shares ³	25,000,000
Options ^{4, 5}	7,945,956
Total Shares ⁵	209,671,093

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 6,464,425 options with a weighted average strike price of \$0.21/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 plan. As previously reported on Origin's 424(b)(3) filing dated August 12, 2021.



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 expense, net of capitalized interest, (iv) change in fair value of derivative liability, (v) change in fair value of warrants liability, (vi) change in fair value of earnout liability, and (vii) other income, net.

	Three Months Er	nded June 30,	Six Months Ended June 30,		
	2021	2020	2021	2020	
Net Income (loss)	\$62,531	\$(1,693)	\$8,961	\$(3,663)	
Stock based compensation	3,545	9	4,172	18	
Depreciation and amortization	121	100	236	204	
Interest expense, net of capitalized interest	2,560	50	2,839	113	
Change in fair value of derivative liability	1,035	(12)	1,426	(15)	
Change in fair value of warrants liability	(27,265)	105	20,844	105	
Change in fair value of earnout liability	(45,497)	-	(45,497)	-	
Other Income, net	(42)	(157)	(624)	(168)	
Adjusted EBITDA	\$(3,012)	\$(1,598)	\$(7,643)	\$(3,406)	

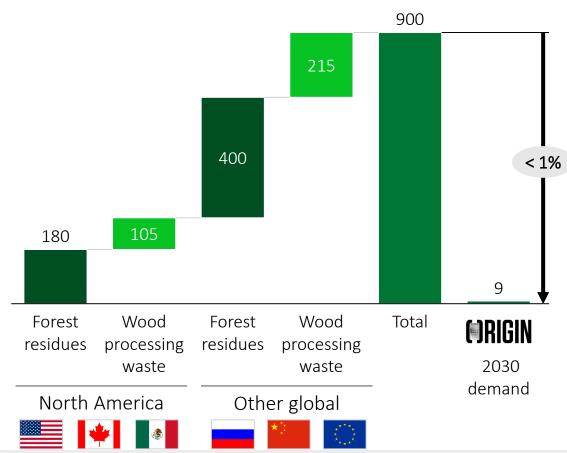


DRIGN Appendix B: Other Previously Disclosed Materials

Origin is not feedstock limited

Primary feedstock (forest / wood processing residues)

Million tons annual availability



Additional feedstock optionality



>2X Additional feedstock supply available above forest / wood processing residues alone



Source: FAOstat; USDA, BEIS 2017; ICCT 2016; Wan Nur Aifa Wan Azahar et al.; Getting to Neutral (LLNL). As previously reported on a Rule 425 filing of Artius Acquisition, Inc. dated April 19, 2021.

Origin will look to value chain participants to complement its strengths

Origin's strengths

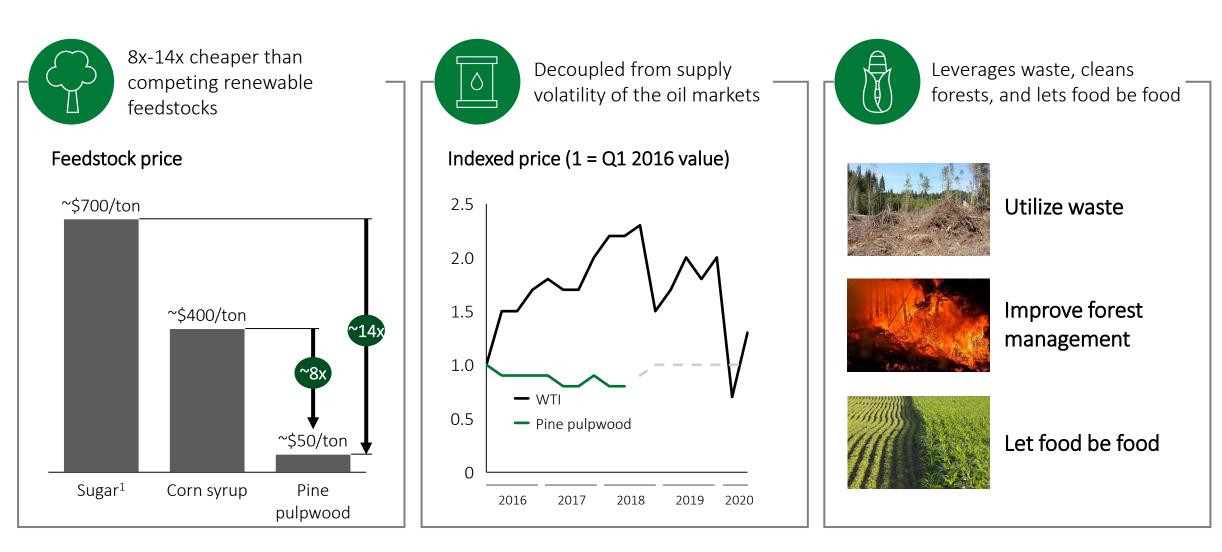
Feedstock (Biomass)	Origin (CM	IF / HTC)	Monomers (PX)	Plastics (PET / PEF)	Additives	Product (Bottl Fibers)	es, Customer
"Our propriet bread and but	•			"Putting it all togethe	er"		"Clear market pull"
 Proprietary technology in a league of its ow 		 We will leverage an already-existing industrial base of monomer, polymer, additive, and packaging / extrusion technology Beyond Origin 2 (monomers), we will license or sell that technology to a value chain participant 			,	Years of experience working with the end consumer to address sustainability goals	
Picture: Origin 1	al-1 11	alfa	INDORAMA	e chain participants ¹ : A ExonMobil <i>Chemical</i> EOS f FLINT resou	TOTAL EAS		PEPSICO NATURALL BOTTLE ALLIANCE NEGEN

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

Origin Materials may or may not be in discussions with these parties.
 Source: Origin Materials.
 As previously reported on a Rule 425 filing of Artius Acquisition, Inc. dated April 19, 2021.



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



1. Representative chemically relevant sugars such as glucose and high fructose corn syrup. Source: North Carolina State University; Economic Research Service, USDA; Macrotrends; and Origin Materials estimates. As previously reported on a Rule 425 filing of Artius Acquisition, Inc. dated April 19, 2021.



Origin is pursuing a capital efficient strategy to optimize CAPEX

Origin is keenly aware that **capital efficiency** will be the major driver of its **long term profitability**.

For this reason, Origin is pursuing a pulp mill **"brownfield" CAPEX strategy** to **save ~\$100Mn** on its total commercial plant CAPEX



Wood chip waste streams

Pulp mill scale

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

) **#2**

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





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





The world's leading carbon negative materials company