

# **Company Overview**

The world's leading carbon negative materials company

March 1, 2022

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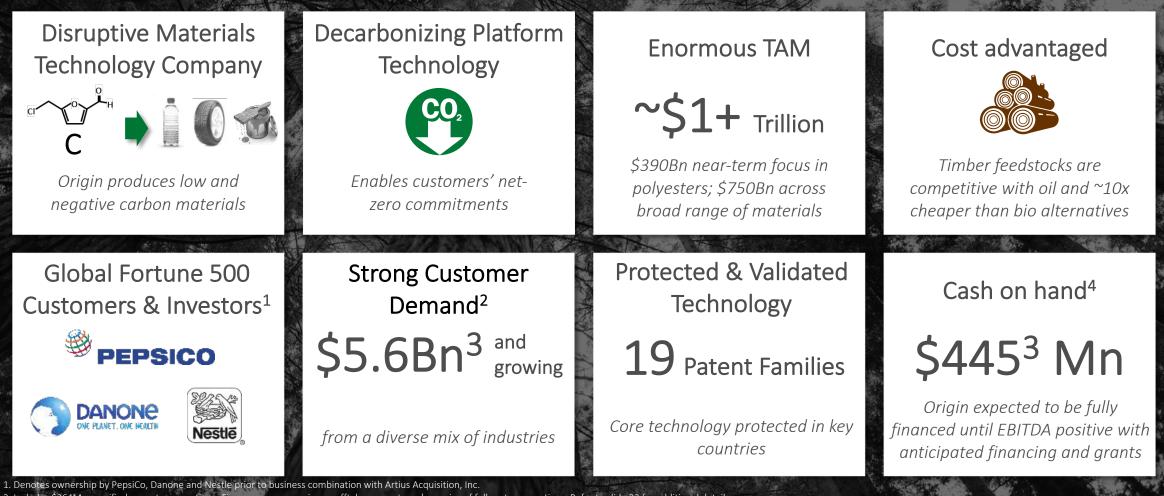
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### **Origin Materials – At a Glance**

The world's leading carbon negative materials company



2. Includes \$264Mn specified as customer options. Figures assume maximum offtake amounts and exercise of full customer options. Refer to slide 23 for additional detail

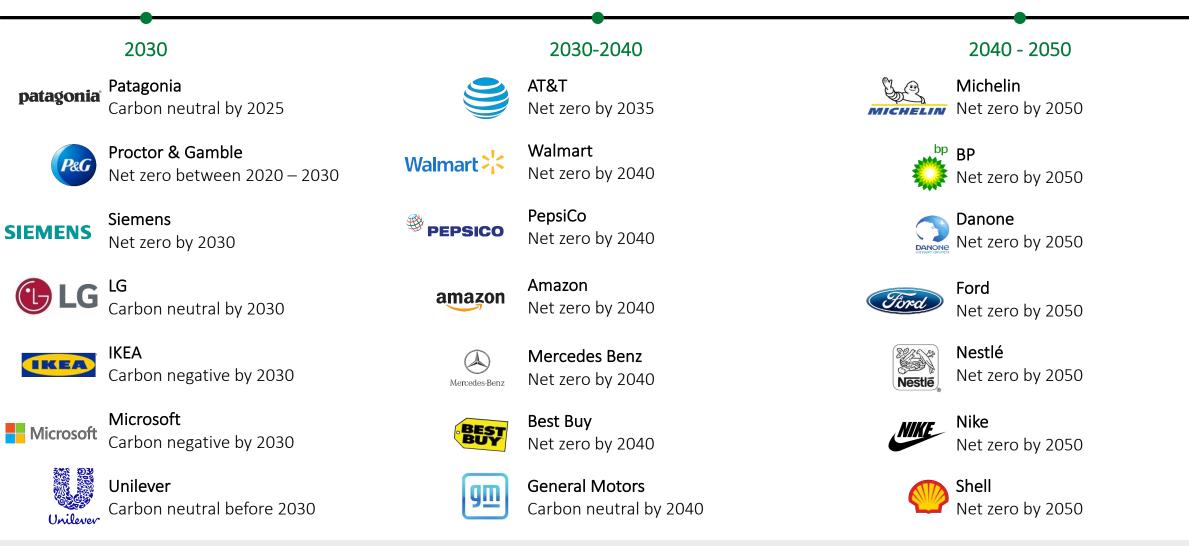
3. As previously reported in the Q4 2021 Earnings Presentation of Origin Materials, Inc. dated February 24, 2022.

4. As of December 31, 2021. Refer to slide 46 for additional detail.

As previously reported on Origin's Form 8-K filed on August 12, 2021, except where otherwise noted. Source: Origin Materials.

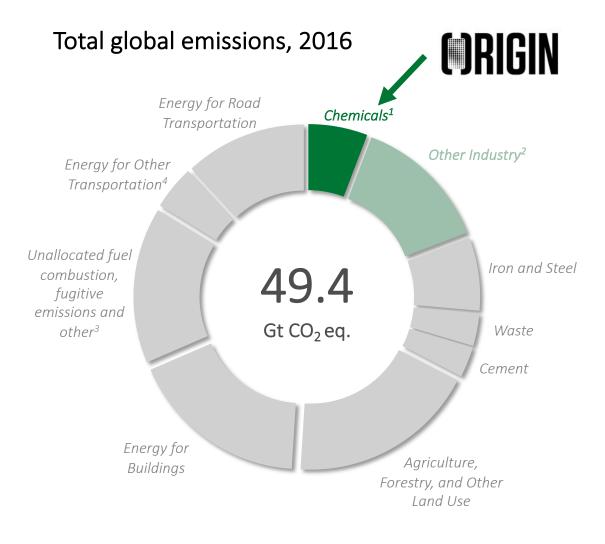
# Leading institutions are committing to a net zero future

The global industrial complex is committed to decarbonization



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.

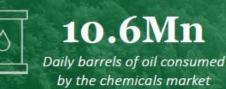
# Nearly half of all global emissions come from making products



# 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

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

Avoiding

>100%

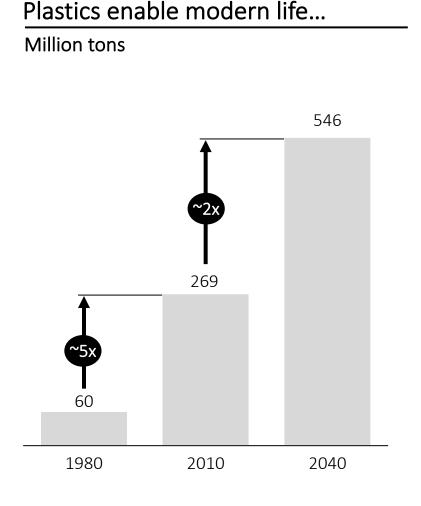
Carbon reduction for Origin's PET vs. fossil-based PET

### 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 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



#### ... 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

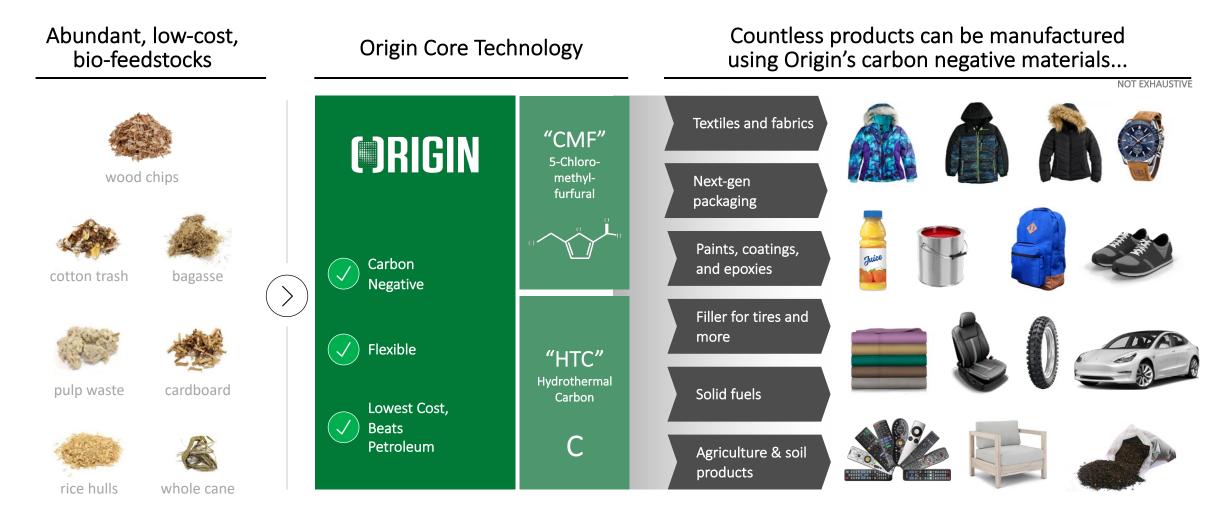


#### Sustainable, end of life solutions (recycle first)

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

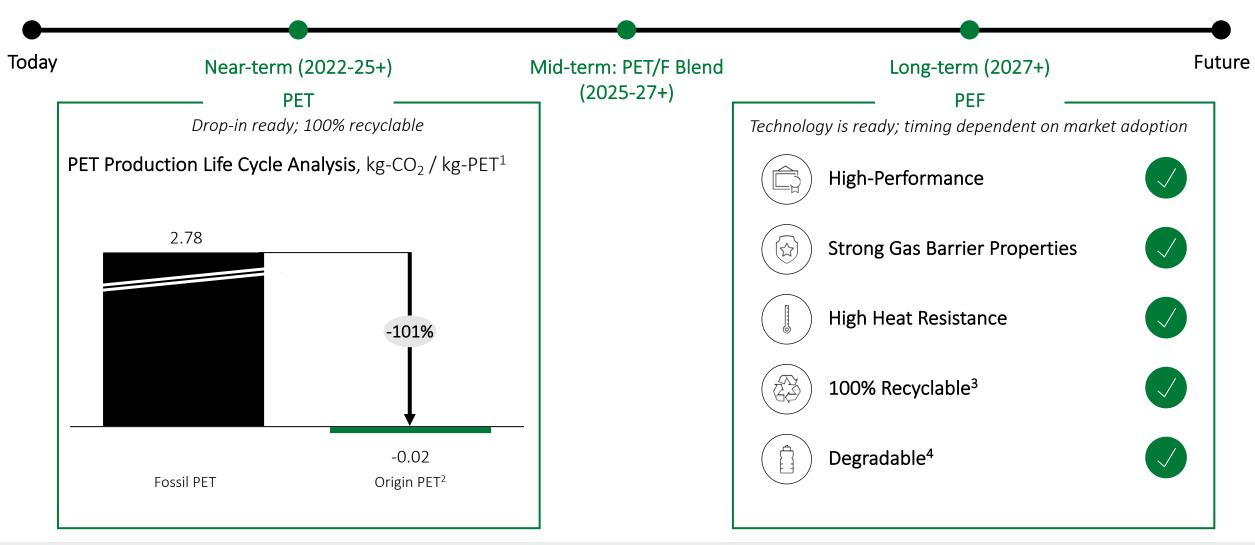


# The Origin platform: 'Once in a planet' shift from fossil to decarbonized materials





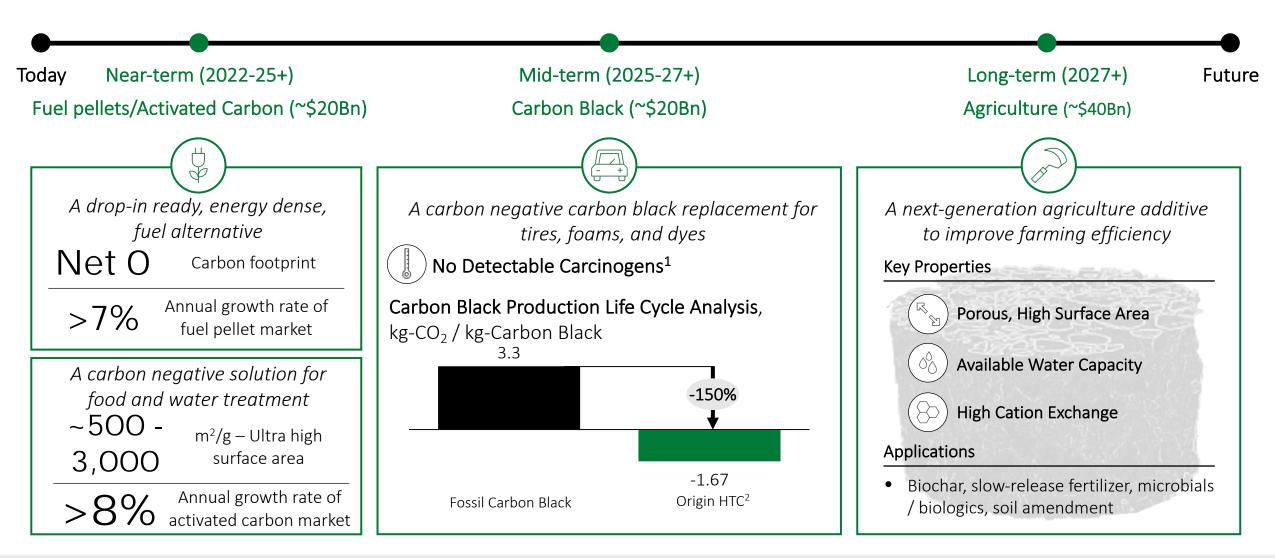
## Origin's CMF is a carbon negative solution for recyclability and degradability



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 ~8.3MMT<sup>1</sup>CO<sub>2</sub> equivalent to approximately...

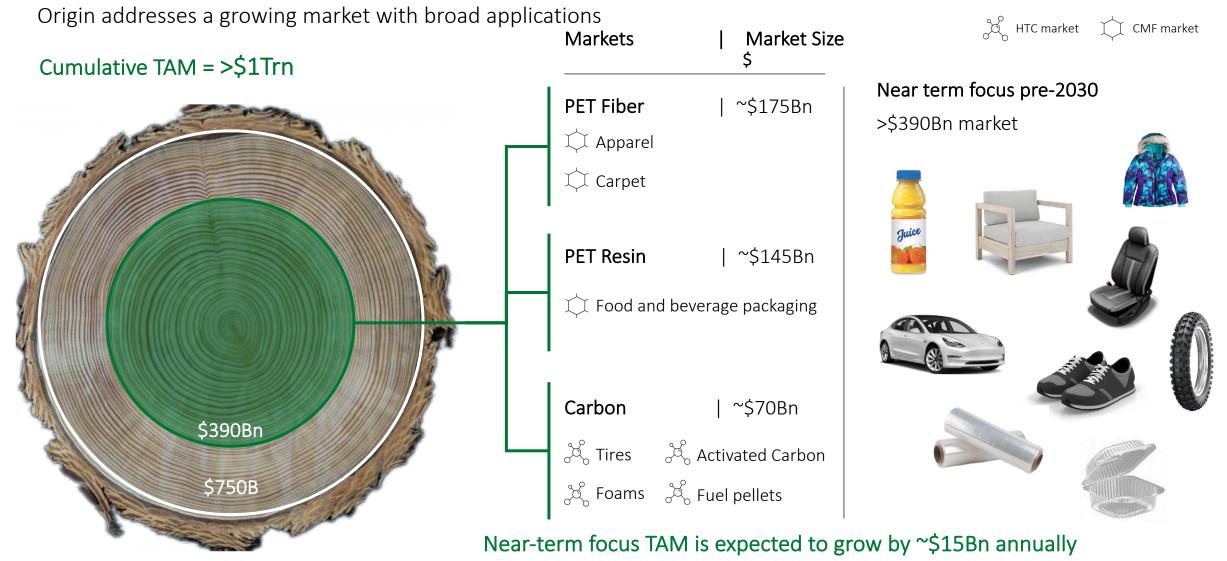


#### 1. Million Metric Tons.

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: <u>https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator</u> 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



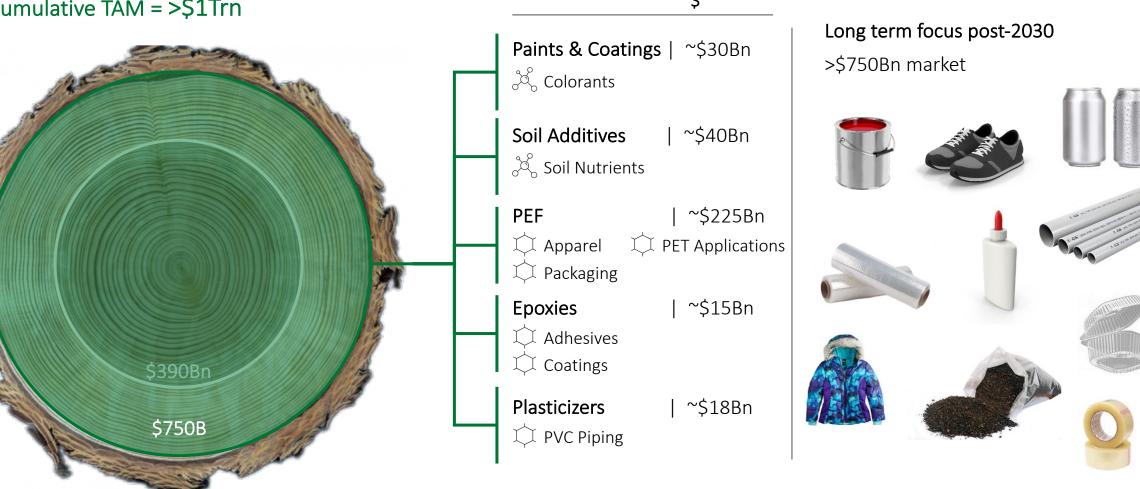
Source: Origin Materials management estimates based on 2030 addressable market. As previously reported on a Rule 425 filing of Artius Acquisition, Inc. dated April 19, 2021.

# **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.

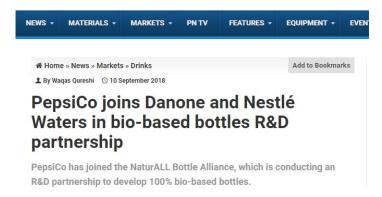


တို် HTC market

CMF market

# **Origin is supported by Global Fortune 500 companies**

#### **Packaging**News







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

4.75Mn

Tons

# -20

Commercial facilities required to meet PET demand<sup>1</sup>

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."









#### **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

carbon-negative materials from Origin Materials

٠

and other qualities.

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

Materials include novel polymers and drop-in solutions for select

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,

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

applications, with an initial focus on automotive applications

The partnership includes development work aimed at

#### Industrial Materials

#### Film/EM

**WKOLON INDUSTRIES** 



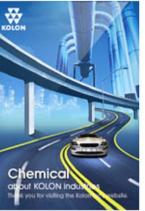
Chemicals

Fashion



Kolon Industries areas of business<sup>1</sup>





novel FDCA-based polymers, including PEF.

#### 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.<sup>1</sup>



#### **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<sup>®</sup> is in discussions with Origin to commercialize its revolutionary biobased extraction process using sustainable carbon-negative materials produced by Origin. The EcoXtract<sup>®</sup> process efficiently extracts useful plant oils for food, cosmetics, and other applications

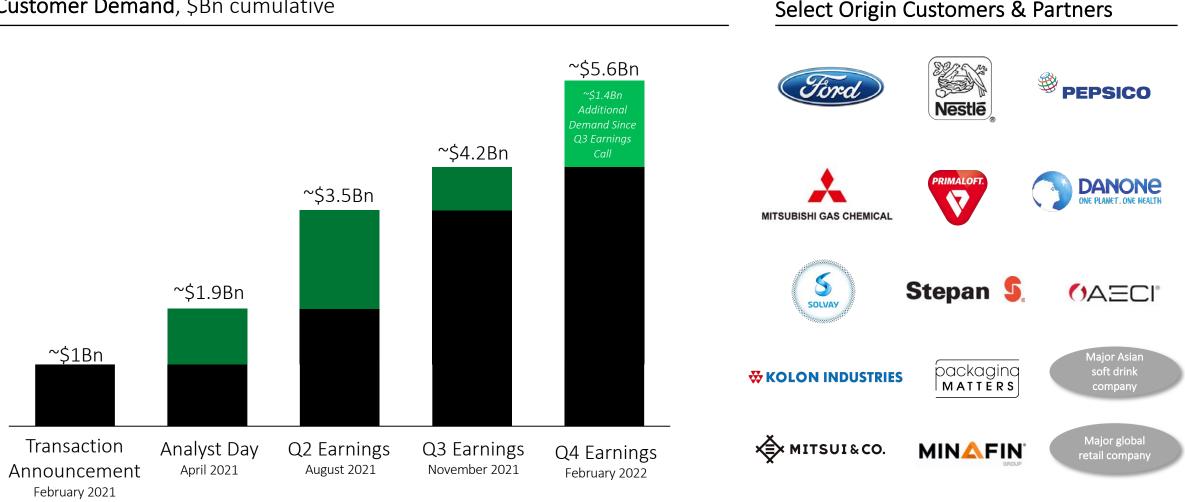




# **Origin customer demand has more than quintupled to \$5.6Bn since February** announcement to go public

Total demand is \$5.6Bn in either offtake agreements or capacity reservations<sup>1</sup>

#### **Customer Demand**, \$Bn cumulative



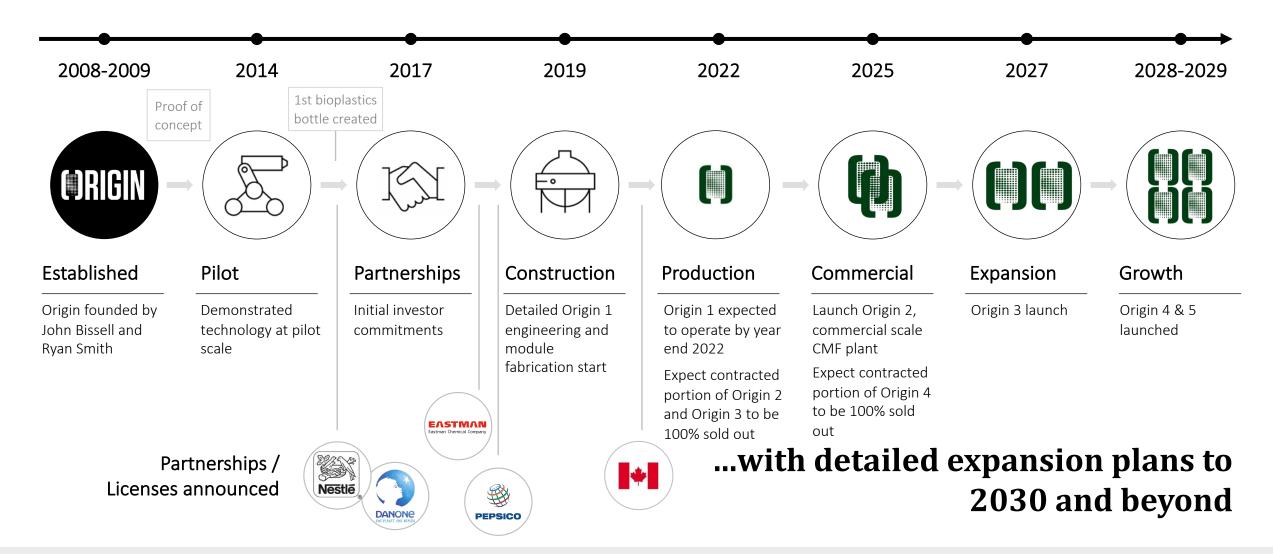
23

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

Source: Origin Materials.

As previously reported in the Q4 2021 Earnings Presentation of Origin Materials, Inc. dated February 24, 2022.

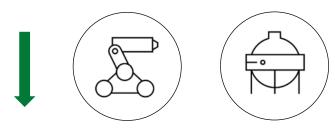
# Origin is building on a strong foundation toward rapid growth...



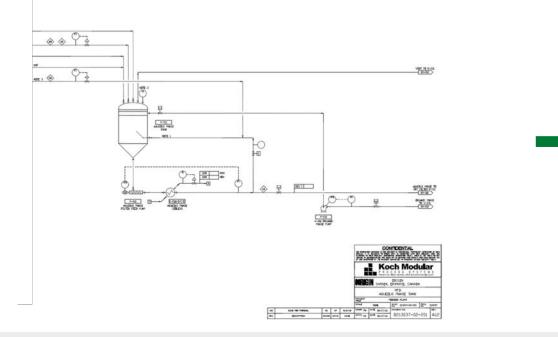


# **Construction – Origin 1 story (1 of 2)**

>10 years bench/pilot scale chemistry & engineering



#### **Origin 1 design**

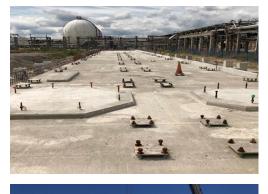


#### **Origin 1 core technology module fabrication**





## **Construction – Origin 1 story (2 of 2)**



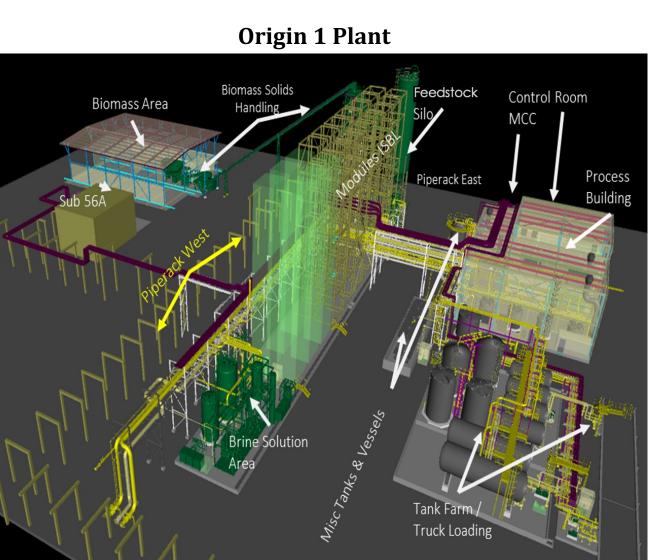
Foundations



Tanks & other equipment

Core technology modules







As previously reported in the Q2 2021 Earnings Presentation of Origin Materials, Inc. dated August 12, 2021.

# **Construction – Origin 1 update (1 of 5)**

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 update (2 of 5)**

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

ENCON evaporator module offload



ENCON module system placed



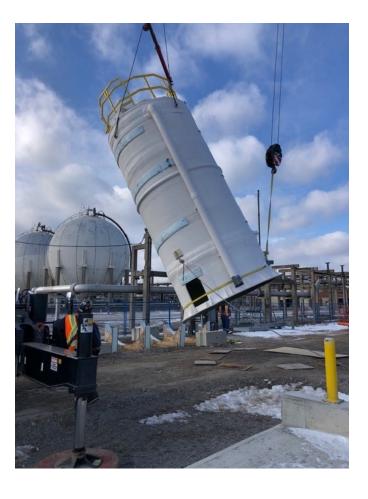


# **Construction – Origin 1 update (3 of 5)**

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 update (4 of 5)**

Piping fabrication began earlier this year, nearly six months ahead of the schedule announced in April 2021

Steel delivery for piping modules



Piping delivery (approx. 12,000 linear feet of pipe)





# **Construction – Origin 1 update (5 of 5)**

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

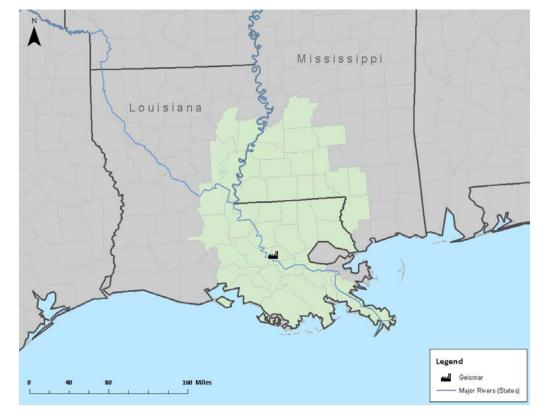




## **Construction – Origin 2 update (1 of 3)**

"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 tons<sup>1</sup> of inventory<sup>2</sup>
- 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



The Geismar wood basin, shown in green, offers plentiful sustainable wood residues, including "residuals" or waste wood from local large-scale pulp mills<sup>1</sup>

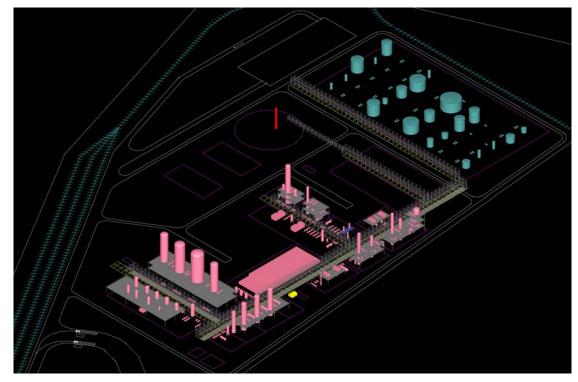
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# **Construction – Origin 2 update (2 of 3)**

"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 update (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

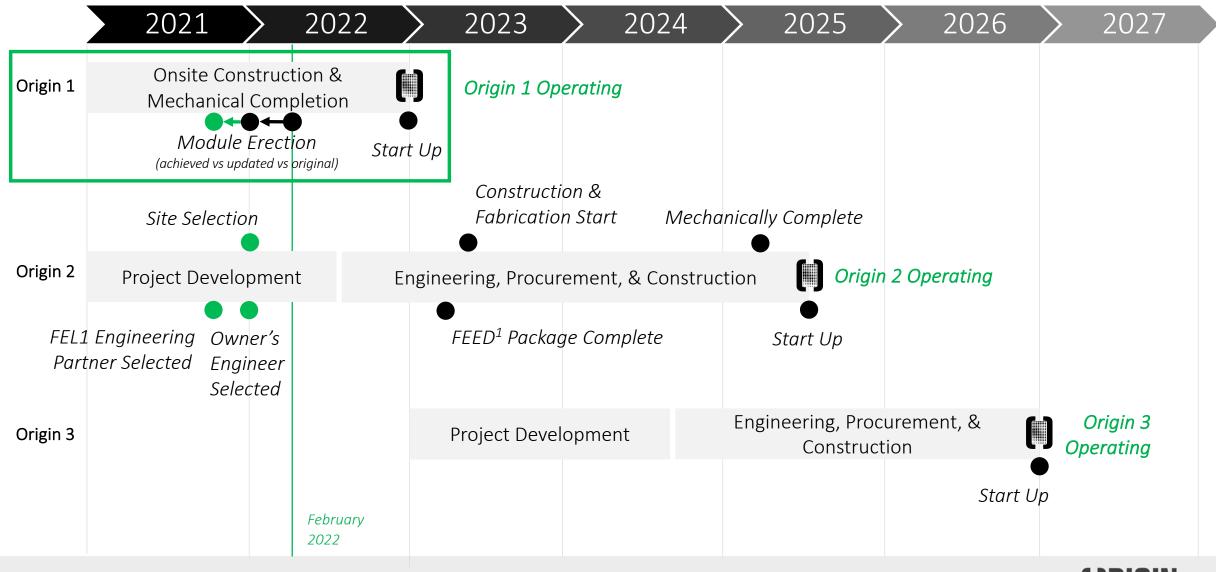


HGA projects





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

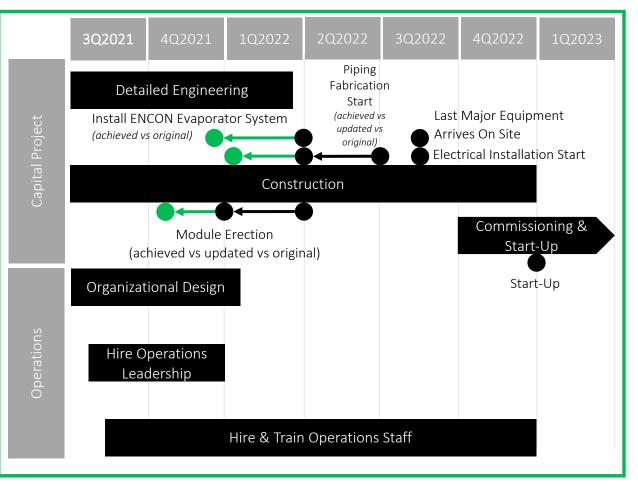


1. Front-end engineering design. As previously reported in the Q4 2021 Earnings Presentation of Origin Materials, Inc. dated February 24, 2022.

### **Construction schedule – Origin 1**

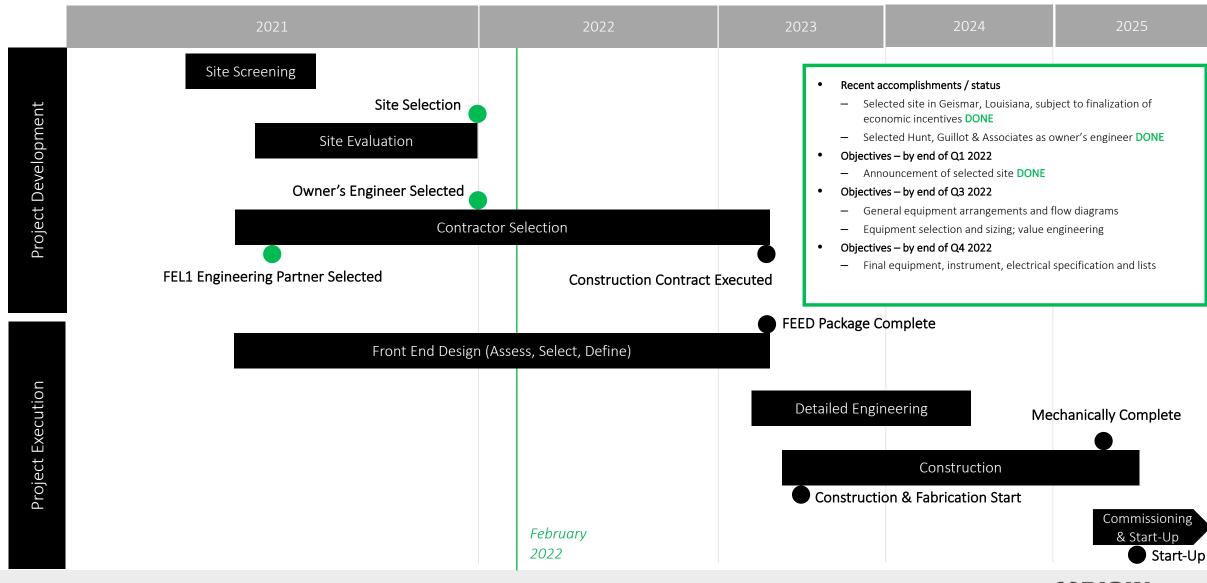
- Origin 1 plant purpose ٠
  - Produce CMF and HTC at commercial volumes
  - Produce CMF and HTC and other intermediates in volumes that allow customers to qualify products and applications other than PET
- Objectives by end of Q3 2021 ٠
  - Achieve activities required to enable module lift by end of Q4 2021 DONE
  - Hire Process Automation Lead, additional Project Manager/ Project Engineer DONE
- Objectives by end of Q4 2021 ٠
  - Hire Origin 1 operating leadership: Site & Plant Director, Operations Manager, Site EHS&S (Environmental Health, Safety, and Security) Manager DONE
  - Complete structural elements of plant ISBL and complete foundations of auxiliary process buildings **DONE**<sup>1</sup>
  - Erect main plant modules **DONE**
  - Install ENCON evaporator module system DONE (Previous: Receive ENCON evaporator module system by end of Q1 2022)
- Objectives by end of Q1 2022 ٠
  - Receive additional major equipment (tanks, etc.)
  - Piping fabrication start DONE (Previous: By end of Q2 2022)
- Objectives by end of Q2 2022 ٠
  - 1<sup>st</sup> round of operations hiring (Admin, Head of Shift Operators, Manufacturing QA/QC Lead)
- Objectives by middle of Q3 2022 ٠
  - Electrical installation start
  - Last major equipment arrives on site
- Objectives by beginning of Q4 2022 ٠
  - First system turnovers to commissioning and start-up team

#### Origin 1 Timeline (Detail View)



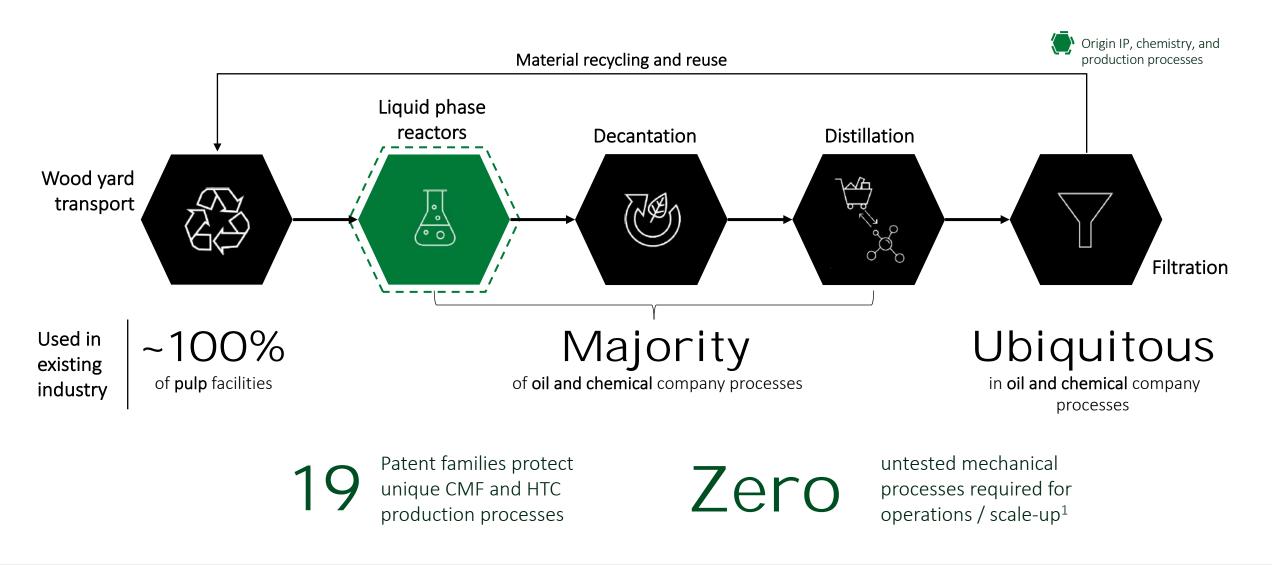


#### **Construction schedule – Origin 2**



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

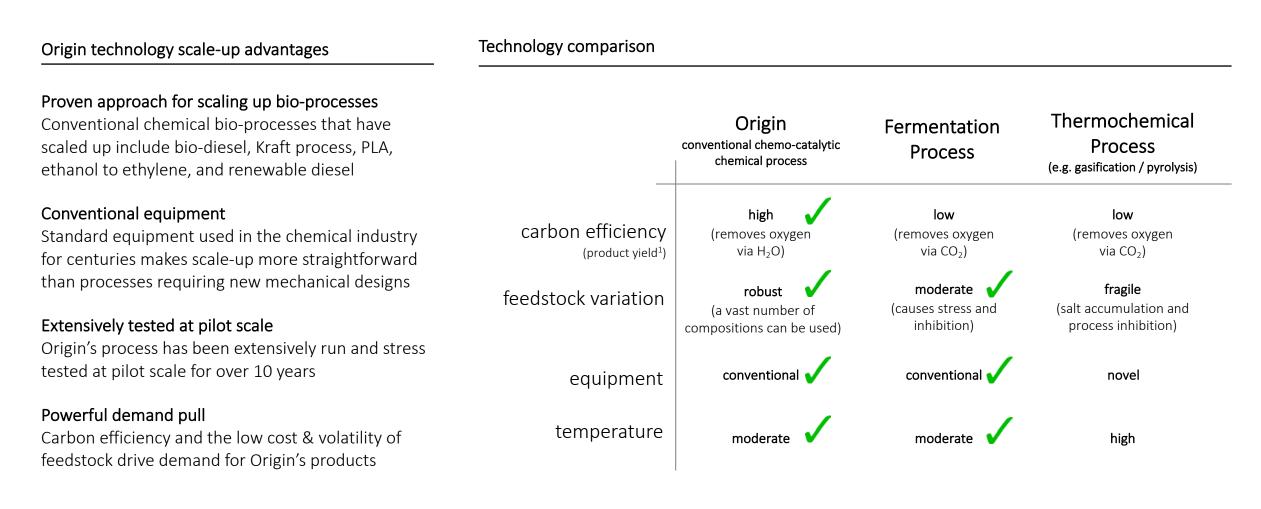


1. Origin does not rely on any novel mechanical processes in its plants. All of Origin's mechanical processes are standard mechanical processes utilized in the chemicals and refining industry. Source: Origin Materials.

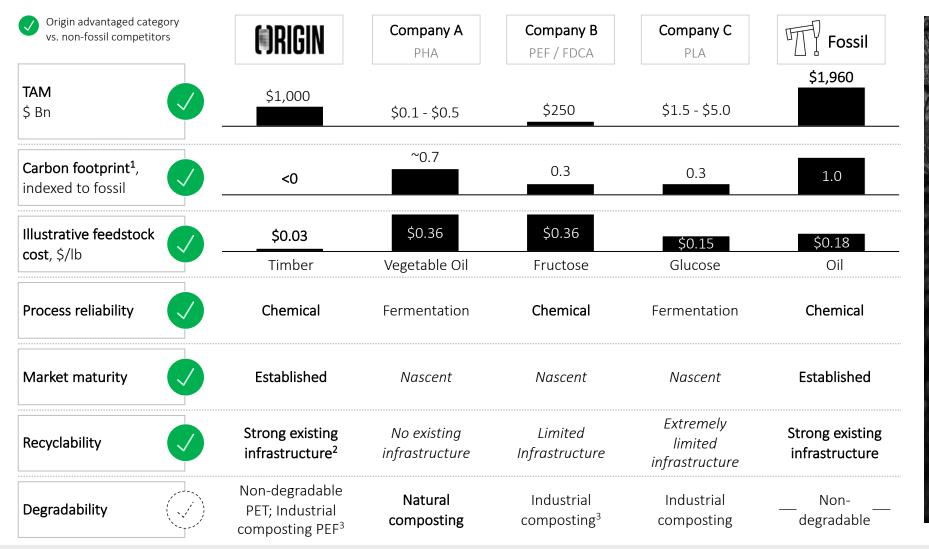
As previously reported on a Rule 425 filing of Artius Acquisition, Inc. dated April 19, 2021.

### 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.

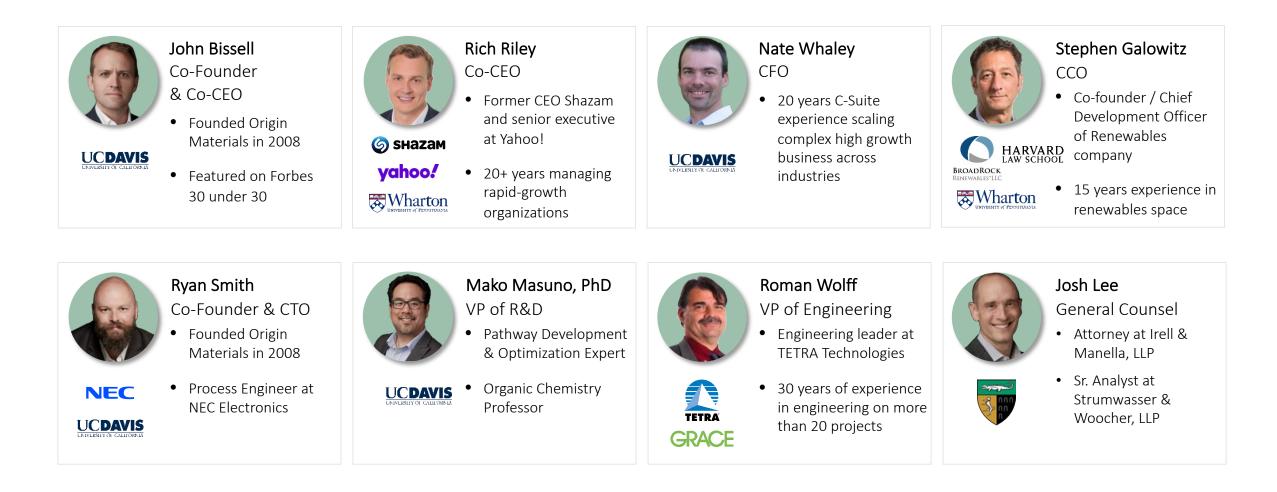
Source: Company websites, filings and press releases; Market and technical research reports; Origin Materials management team.

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





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

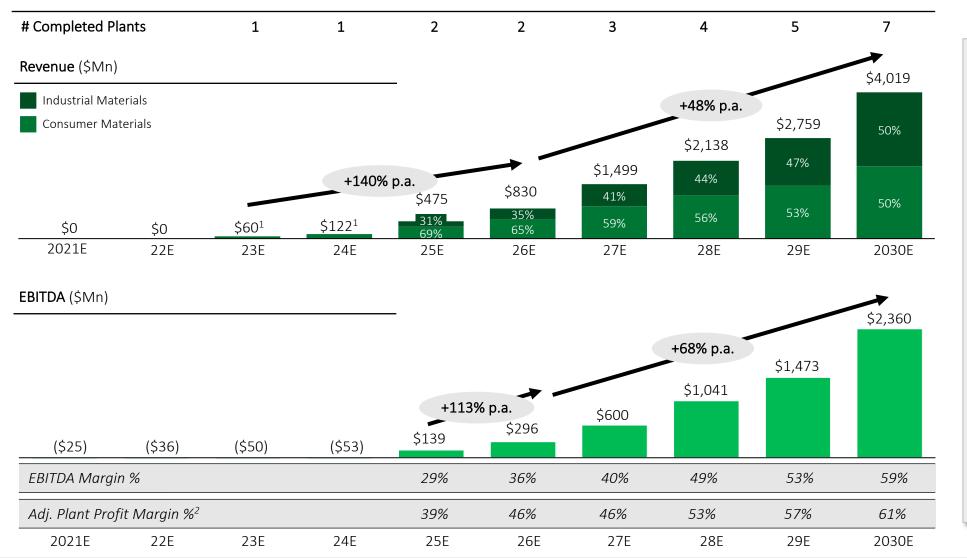




# DRIGIN

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

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



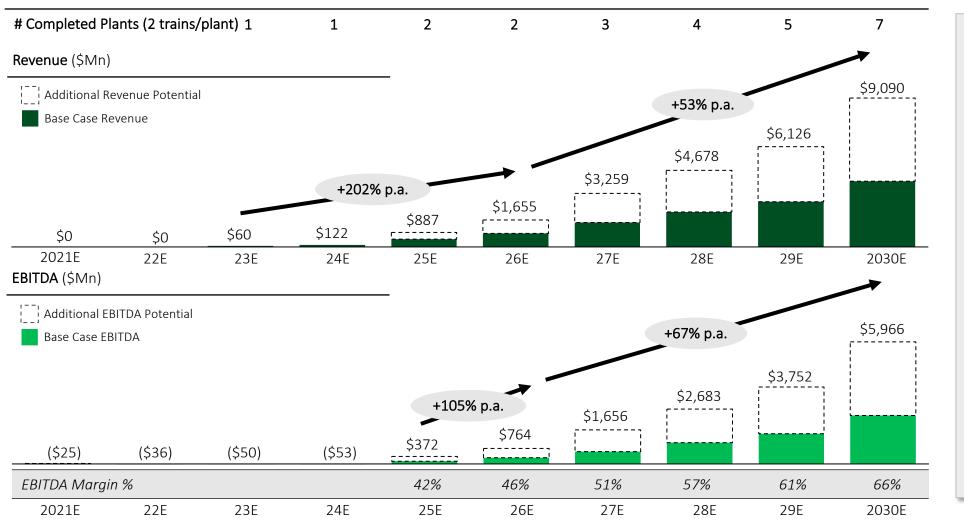
• Revenue and materials volume forecast / growth based on satisfying existing customer offtake contracts and expected future demand

- 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 plan<sup>1</sup>, 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 <sup>1</sup>	\$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 <sup>2</sup>	\$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 <sup>3</sup> , CMF, FDCA <sup>4</sup> , 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.

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) $^1$	(61)
Net Cash Balance <sup>2</sup>	\$471
	<u> </u>
Add: Project Financing <sup>4</sup>	\$804
Add: Local, State, and Federal Government Incentives / Support <sup>4</sup>	185
Less: Origin 1 Growth CAPEX <sup>5</sup>	(70)
Less: Origin 2 Growth CAPEX <sup>5</sup>	(1,072)
Less: Cash Flow from Operations '21 – '25 <sup>3</sup>	(218)

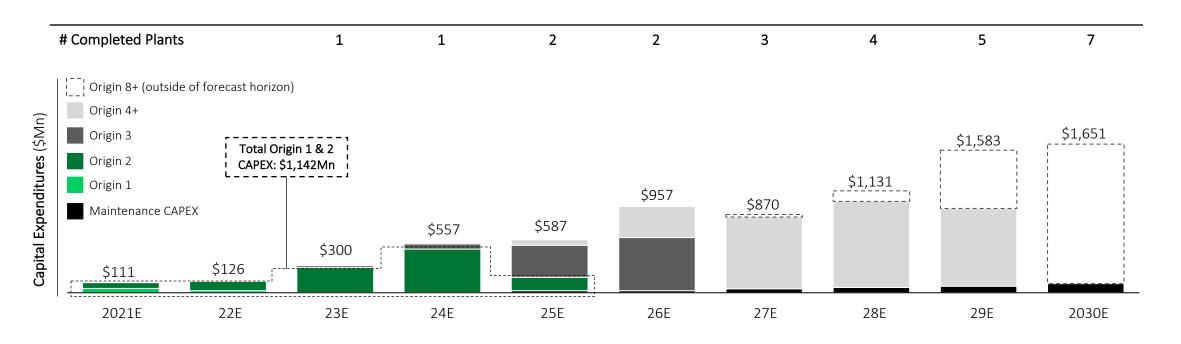
#### Remaining Cash to Fund Origin 3 and Beyond<sup>6</sup>

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 as of 12/31/2021

Class	Outstanding Shares of Common Stock
Total Shares Outstanding <sup>1</sup>	136,801,569
Shares subject to forfeiture <sup>1</sup>	4,500,000
Total Shares Outstanding, including Shares subject to forfeiture <sup>1</sup>	141,301,569
	<u>Shares Reserved for Future Issuance</u> <u>Pursuant to Potential Earnouts,</u> <u>Outstanding Warrants, and Options</u>
Public Warrants <sup>2</sup>	24,150,000
Private Warrants <sup>2</sup>	11,326,667
Legacy Origin Earnout Shares <sup>3</sup>	25,000,000
Options and RSUs <sup>4, 5</sup>	15,074,862
Total Shares <sup>5</sup>	216,853,098

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) 2. Warrant exercise price targets of \$15, \$20, and \$25 within 3, 4 and 5 years after the closing of the Business Combination, respectively) 4. Includes 6,411,326 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 volume weighted average price thresholds of \$15, \$25, and \$50 per share respectively for 10 consecutive trading days), 769,505 Restricted Stock Units, and 2,137,500 Performance Stock Units under which the maximum award can be up to 6,412,500 shares. 5. Excludes shares available for future issuance pursuant to our equity incentive plan and employee stock purchase plan.



As previously reported in the Q4 2021 Earnings Presentation of Origin Materials, Inc. dated February 24, 2022.

#### **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.

	Three months ended December 31,		Year ended December 31,					
(in thousands)		2021		2020	2021		2020	
Net income (loss)	\$	5,237	\$	(23,534)	\$ 42,090	\$	(30,302)	
Stock based compensation		959		1,552	5,767		1,630	
Depreciation and amortization		181		174	544		479	
Interest income		(1,413)			(1,413	)		
Interest expense, net of capitalized interest		(1)		175	2,838		341	
Change in fair value of derivative liabilities		(100)		1,036	1,326		1,088	
Change in fair value of warrants liability		(2,838)		17,370	4,525		18,498	
Change in fair value of earnout liability		(8,480)			(75,488	)		
Professional fees related to completed mergers					640			
Other income, net		(160)		(568)	(811	)	(805)	
Adjusted EBITDA	\$	(6,615)	\$	(3,796)	\$ (19,982	) \$	(9,071)	

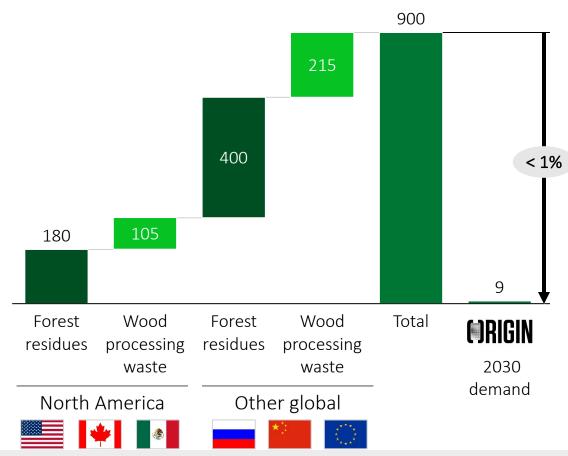


### **DRIGN** Appendix B: Other Previously Disclosed Materials

### **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

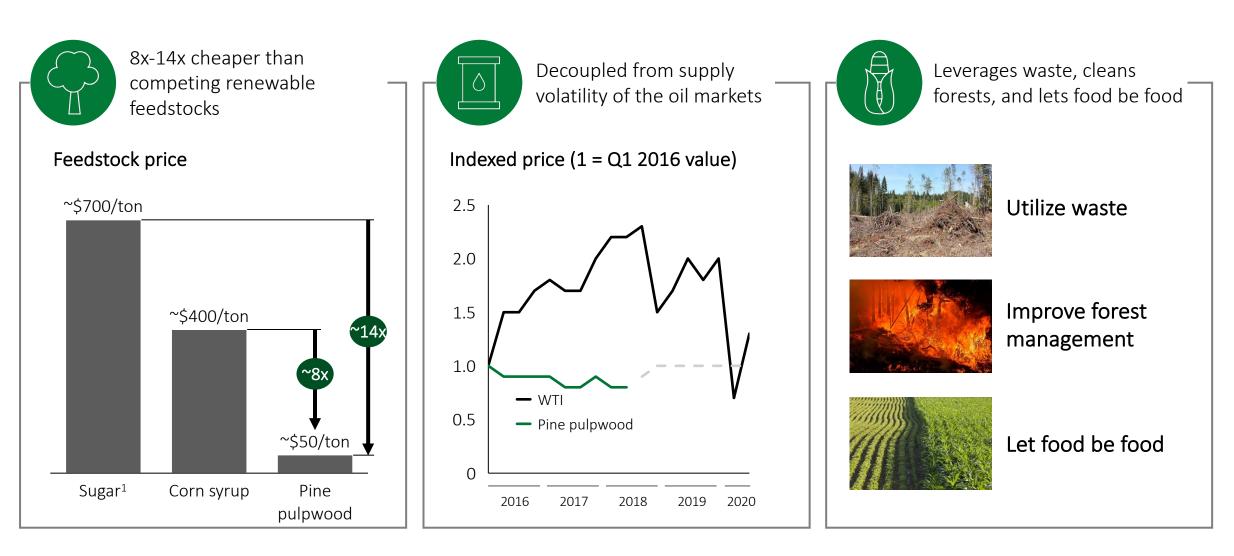
(Biomass) Origin (CM	1F / HTC) Monomers (PX)	Plastics (PET / PEF)	Additives	Product (Bo Fibers)	Customer
"Our proprietary bread and butter"		"Putting it all together	11	/	"Clear market pull"
<ul> <li>Proprietary technology in a league of its own</li> </ul>	<ul> <li>We will leverage an already-existing industrial base of monomer, polymer, additive, and packaging / extrusion technology</li> <li>Beyond Origin 2 (monomers), we will license or sell that technology to a value chain participant</li> </ul>				<ul> <li>Years of experience working with the end consumer to address sustainability goals</li> </ul>
Picture: Origin 1	Illustrative potential valu alfa ハロのRAM 意東集團 FAR EASTERN GROUP	A ExonMobil Chemical	TOTAL EAS		PEPSICO NATURALL BOTTLE ALLIANCE

#### 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**.

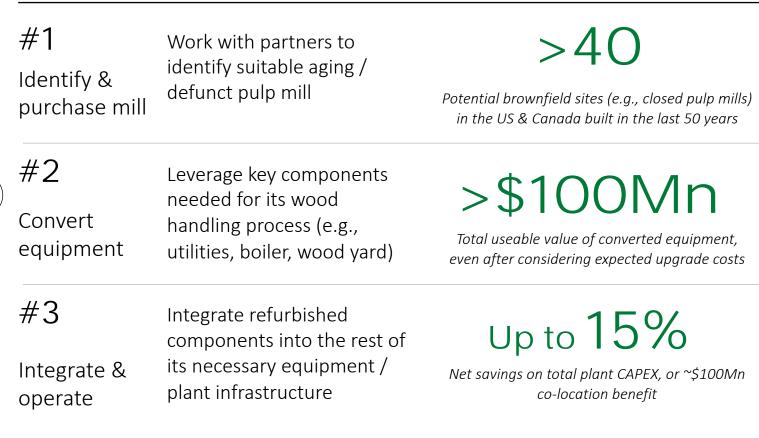
For this reason, Origin is pursuing a pulp mill **"brownfield" CAPEX strategy** to **save ~\$100Mn** on its total commercial plant CAPEX



Wood chip waste streams

Pulp mill scale

#### Origin's strategy:



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



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

#### 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