

LITHIUM – MADE IN THE USA

Helping Secure America's Energy Independence

 Nasdaq :PLL

 ASX :PLL

ARBN 647 286 360

March 24, 2022

LiOH

DISCLAIMERS



Forward Looking Statements

This presentation contains forward-looking statements within the meaning of or as described in securities laws in the United States and Australia, including statements regarding exploration, development and construction activities; current plans for Piedmont's mineral and chemical processing projects (including its partners); projections of market demand and prices; statements about the timing and amount of reserve and resource declarations and our chemical processing operations; strategy; value; returns; capital allocation and investment; expectations regarding permitting; costs and expenses; and statements about the timing and ability to complete scoping studies and feasibility studies.

Such forward-looking statements involve substantial and known and unknown risks, uncertainties and other risk factors, many of which are beyond our control, and which may cause actual timing of events, results, performance or achievements and other factors to be materially different from the future timing of events, results, performance or achievements expressed or implied by the forward-looking statements. Such risk factors include, among others: (i) that Piedmont will be unable to commercially extract mineral deposits, (ii) that Piedmont's properties may not contain expected reserves, (iii) risks and hazards inherent in the mining business (including risks inherent in exploring, developing, constructing and operating mining projects, environmental hazards, industrial accidents, weather or geologically related conditions), (iv) uncertainty about Piedmont's ability to obtain required capital to execute its business plan, (v) Piedmont's ability to hire and retain required personnel, (vi) changes in the market prices of lithium and lithium products, (vii) changes in technology or the development of substitute products, (viii) the uncertainties inherent in exploratory, developmental and production activities, including risks relating to permitting, zoning and regulatory delays, (ix) uncertainties inherent in the estimation of lithium resources, (x) risks related to competition, (xi) risks related to the information, data and projections related to Sayona Quebec and Atlantic Lithium, (xii) occurrences and outcomes of claims, litigation and regulatory actions, investigations and proceedings, (xiii) risks regarding our ability to achieve profitability, enter into and deliver product under supply agreements on favorable terms, our ability to obtain sufficient financing to develop and construct our projects, our ability to comply with governmental regulations and our ability to obtain necessary permits, and (xiv) other uncertainties and risk factors set out in filings made from time to time with the U.S. Securities and Exchange Commission ("SEC") and the Australian Securities Exchange, including Piedmont's most recent filings with the SEC. The forward-looking statements, projections and estimates are given only as of the date of this presentation and actual events, results, performance and achievements could vary significantly from the forward-looking statements, projections and estimates presented in this presentation. Readers are cautioned not to put undue reliance on forward-looking statements. Piedmont disclaims any intent or obligation to update publicly such forward-looking statements, projections and estimates, whether as a result of new information, future events or otherwise. Additionally, Piedmont, except as required by applicable law, undertakes no obligation to comment on analyses, expectations or statements made by third parties in respect of Piedmont, its financial or operating results or its securities.

Competent Persons Statement

The Carolina Lithium Project comprises the Project's estimated Probable Ore Reserves of 18.3 Mt @ 1.10% Li₂O and Mineral Resource estimate of 44.2Mt @ 1.08% Li₂O comprised of Indicated Mineral Resources of 28.2Mt @ 1.11% Li₂O and Inferred Mineral Resources of 15.9Mt @ 1.02% Li₂O previously reported on October 21, 2021 ("Mineral Resource update"). The information in this presentation that relates to Exploration Results, Mineral Resources, Metallurgical Testwork, Process Design, Operating Costs, Capital Costs, Financial Analysis, Mining Engineering, Mine Schedule, Mining Costs and Ore Reserves of the Carolina Lithium Project was extracted from our announcement entitled 'Piedmont Completes Bankable Feasibility Study of the Carolina Lithium Project with Positive Results' dated December 13, 2021 ("Original Announcement") which is available to view on the Company's website at www.piedmontlithium.com.

Piedmont confirms that: a) it is not aware of any new information or data that materially affects the information included in the Original Announcement; b) all material assumptions and technical parameters underpinning Mineral Resources, production targets, and related forecast financial information derived from production targets included in the Original Announcement continue to apply and have not materially changed; and c) the form and context in which the relevant Competent Persons' findings are presented in this report have not been materially modified from the Original Announcement.

DISCLAIMERS



Cautionary Note to United States Investors Concerning Estimates of Measured, Indicated and Inferred Mineral Resources

The information contained herein by Piedmont for the Carolina Lithium Project has been prepared in accordance with the requirements of the securities laws in effect in the United States and Australia. The terms "ore reserves", "proven ore reserves", "probable ore reserves", "mineral resource", "measured mineral resource", "indicated mineral resource" and "inferred mineral resource" are used herein as defined by the U.S. Securities and Exchange Commission ("SEC") in Regulation S-K, Item 1300 ("S-K 1300") and as defined in accordance with the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the "JORC Code").

Information presented herein related to the Mineral Resources of Sayona Quebec's Authier Project and Atlantic Lithium's Ewoyaa Project have been prepared in accordance with the requirements of the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources, and Ore Reserves (the "JORC Code"). Additionally, the historical Mineral Resources for North American Lithium have been prepared in accordance with the regulations of National Instrument 43-101, Standards of Disclosure for Mineral Project ("NI 43-101") in effect in Canada. The terms "mineral resource", "measured mineral resource", "indicated mineral resource" and "inferred mineral resource" are terms with meaning both in the JORC Code and NI 43-101. Comparable terms are now also defined by the SEC in its newly adopted Modernization of Property Disclosures for Mining Registrants as promulgated in its S-K 1300 standards. While the guidelines for reporting mineral resources, including subcategories of measured, indicated, and inferred resources, are largely similar for JORC, NI 43-101 and S-K 1300 standards, information contained herein that describes Sayona's and Atlantic Lithium's mineral deposits are not fully comparable to similar information made public by U.S. companies subject to reporting and disclosure requirements under the U.S. federal securities laws and the rules and regulations thereunder. U.S. investors are urged to consider Piedmont's disclosure in its SEC filings, copies of which may be obtained from Piedmont or from the EDGAR system on the SEC's website at www.sec.gov.

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A public offering is being made pursuant to an effective shelf registration statement that has been filed with the U.S. Securities and Exchange Commission (the "SEC"). A preliminary prospectus supplement related to the offering of the securities has been filed with the SEC and is available on the SEC's website at <http://www.sec.gov> and on the ASX website. Copies of the preliminary prospectus supplement and the accompanying prospectus relating to the public offering may be obtained from J.P. Morgan Securities LLC, c/o Broadridge Financial Solutions, 1155 Long Island Avenue, Edgewood, NY 11717, by telephone at (866) 803-9204 or by e-mail at prospectus-eq_fi@jpmchase.com; and Evercore Group L.L.C., Attention: Equity Capital Markets, 55 East 52nd Street, 35th Floor, New York, NY 10055, by telephone at (888)474-0200 or by e-mail at ecm.prospectus@evercore.com.

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EQUITY OFFERING SUMMARY

Issuer	<ul style="list-style-type: none"> Piedmont Lithium Inc.
Exchange : Ticker	<ul style="list-style-type: none"> Nasdaq : PLL ASX : PLL
Type of Offering	<ul style="list-style-type: none"> SEC registered common stock
Offering Size (Exclusive of Greenshoe Option)	<ul style="list-style-type: none"> 1,750,000 shares (100% primary)
Greenshoe Option	<ul style="list-style-type: none"> 262,500 (100% primary) (Exercised)
Pricing	<ul style="list-style-type: none"> \$65.00 per share
Settlement Date	<ul style="list-style-type: none"> March 24, 2022
Gross Proceeds	<ul style="list-style-type: none"> \$130.8 Million
Use of proceeds	<ul style="list-style-type: none"> We intend to use the net proceeds from the offering to fund the Company's share of the capital required to restart the operations at North American Lithium in Quebec, to fund exploration and definitive feasibility studies at Eyowaa in Ghana, to advance the Company's merchant lithium hydroxide plant in the southeastern United States, and to continue development of the Carolina Lithium Project, including ongoing permitting activities, engineering design, and property acquisition. Additionally, the net proceeds may be used to fund possible strategic initiatives, and for general corporate purposes.
Lock-up	<ul style="list-style-type: none"> 60 days
Bookrunners	<ul style="list-style-type: none"> J.P. Morgan, Evercore ISI

PIEDMONT AT A GLANCE

	Domestic lithium to power America's energy transition
LiOH	Plans to develop 60,000tpy of LiOH production in the USA ¹
SC6	>500,000tpy of SC6 from assets in U.S., Canada and Ghana ²
\$	Potential for near-term cash flow with 2023 NAL restart
	Industry-leading sustainability profile
	Proven leadership team

1. Plans include the Carolina Lithium Bankable Feasibility Study announced December 15, 2021 and a Preliminary Economic Assessment of the LHP-2 Project dated March 9, 2022.

2. SC6 production based on the results of the Carolina Lithium Bankable Feasibility Study as well as Piedmont's offtake agreement for 50% of SC6 production from Ewoyaa and the greater of 113,000tpy or 50% of SC6 production from North American Lithium

CORPORATE SNAPSHOT

PIEDMONT LITHIUM



Shares / CDIs Outstanding (100 CDIs = 1 Share)	15.92 mm	1,591.7 mm
Price (@ 3/18/22)	\$70.37	A\$0.95
Average Daily Trading Volume (30-day)	\$29 mm	A\$6 mm
Market Cap (@ 3/18/22)	\$1,120 mm	A\$1,512 mm
Cash (@ 12/31/21)	\$64 mm	A\$87 mm
Equity Interests at Market (@ 3/18/22)	\$171 mm	A\$230 mm

RESEARCH COVERAGE

J.P.Morgan

EVERCORE ISI

CANACCORD|Genuity

B | RILEY Securities

 BTIG

 Clarksons Platou
Securities

D|A|DAVIDSON


 Loop Capital

 ROTH Capital Partners

TUOHY BROTHERS
INVESTMENT RESEARCH INC.



LITHIUM MARKET TRENDS

 Nasdaq :PLL

 ASX :PLL

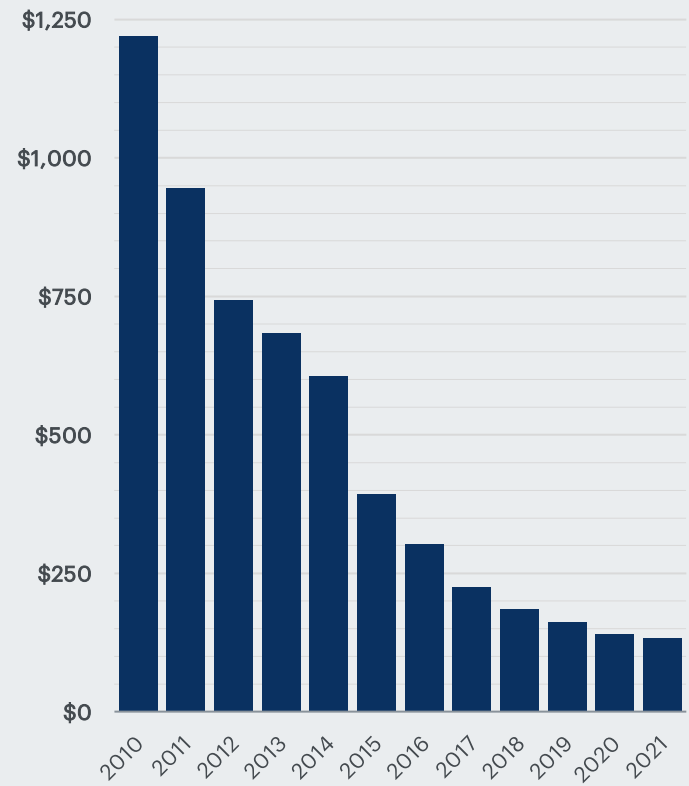
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LiOH



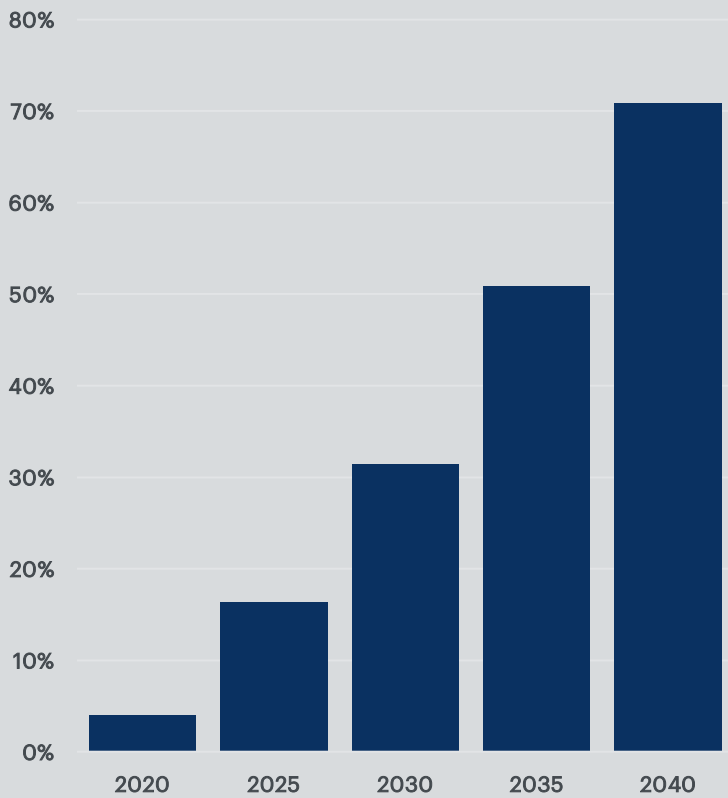
LITHIUM MARKET TRENDS

LI-ION BATTERY COSTS DOWN 85%
SINCE 2010
(PACK PRICE – REAL 2021 \$/KWH)



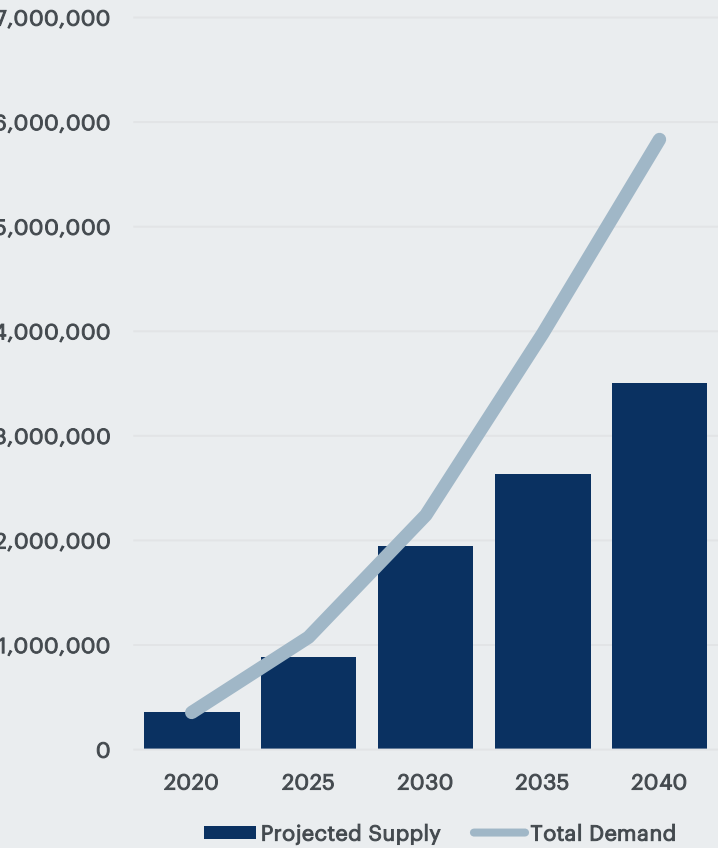
7 Source: BloombergNEF – 11/30/2021

GLOBAL EV PENETRATION



Source: Benchmark Mineral Intelligence – Lithium Forecast, Q4 2021

GLOBAL LITHIUM SUPPLY SHORTFALLS
EXPECTED
(LCE TONNES)

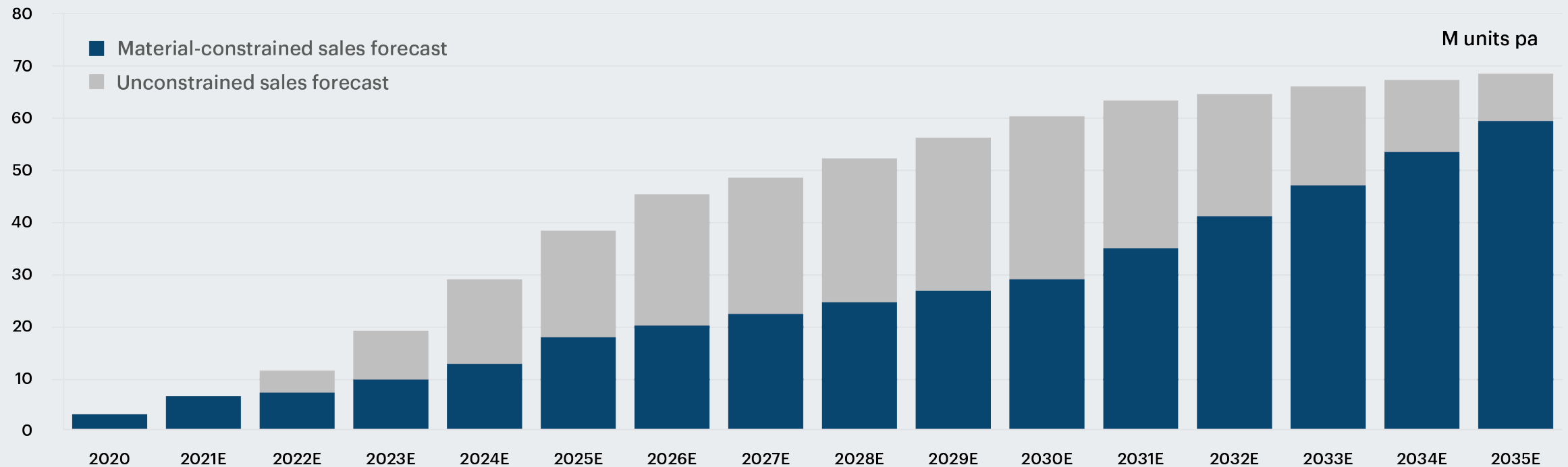


Source: Benchmark Mineral Intelligence – Lithium Forecast, Q4 2021

EV SALES FORECAST

Raw Material Constraints Expected to Curtail EV Penetration Over the Next Decade

MATERIAL-CONSTRAINED VS. UNCONSTRAINED EV SALES FORECAST

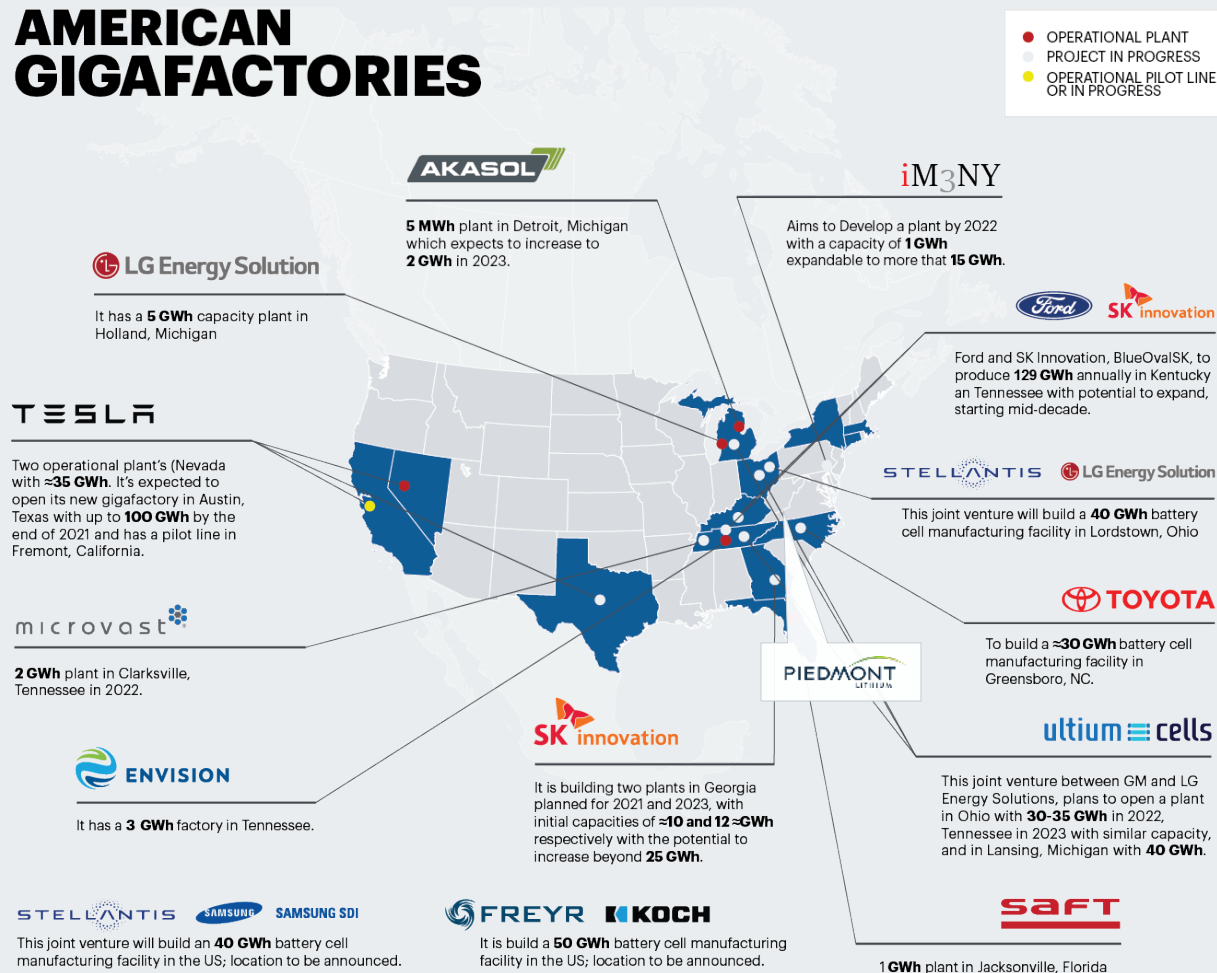


Source: Battery Material Review, Westbeck Capital estimates

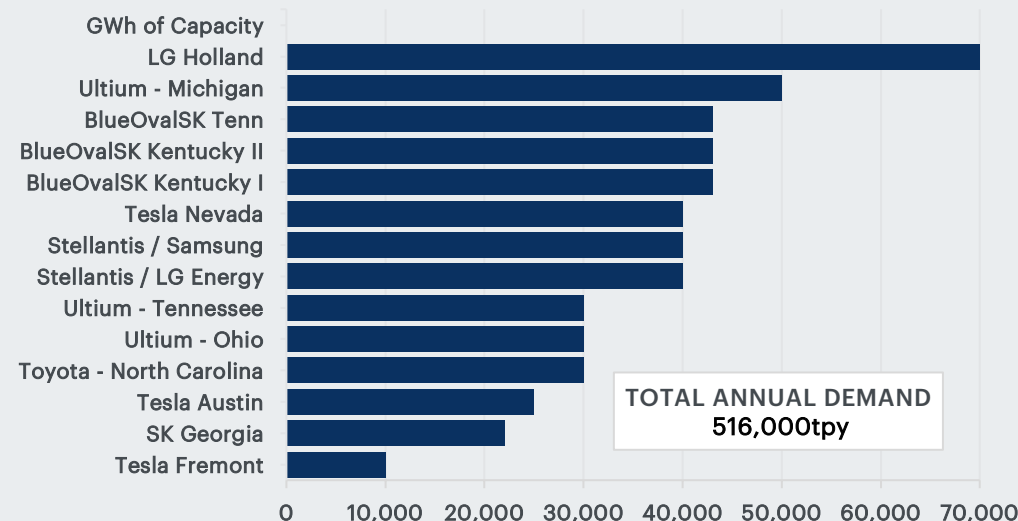
DOMESTIC SHORTFALLS ANTICIPATED

Commitments of Over \$25 Billion to Build U.S. Battery Capacity by 2030

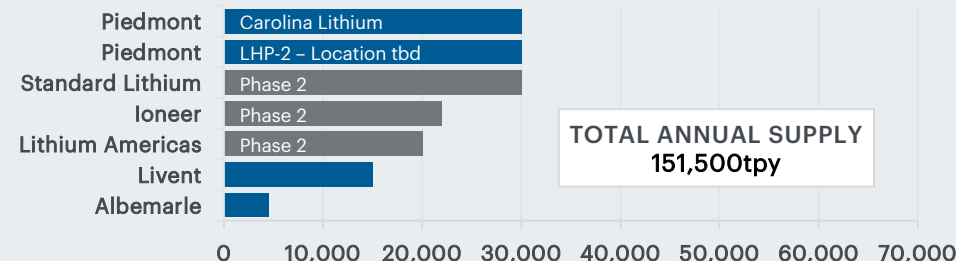
AMERICAN GIGAFACTORIES



LiOH REQUIRED BY SELECTED GIGA-FACTORIES BY 2025+



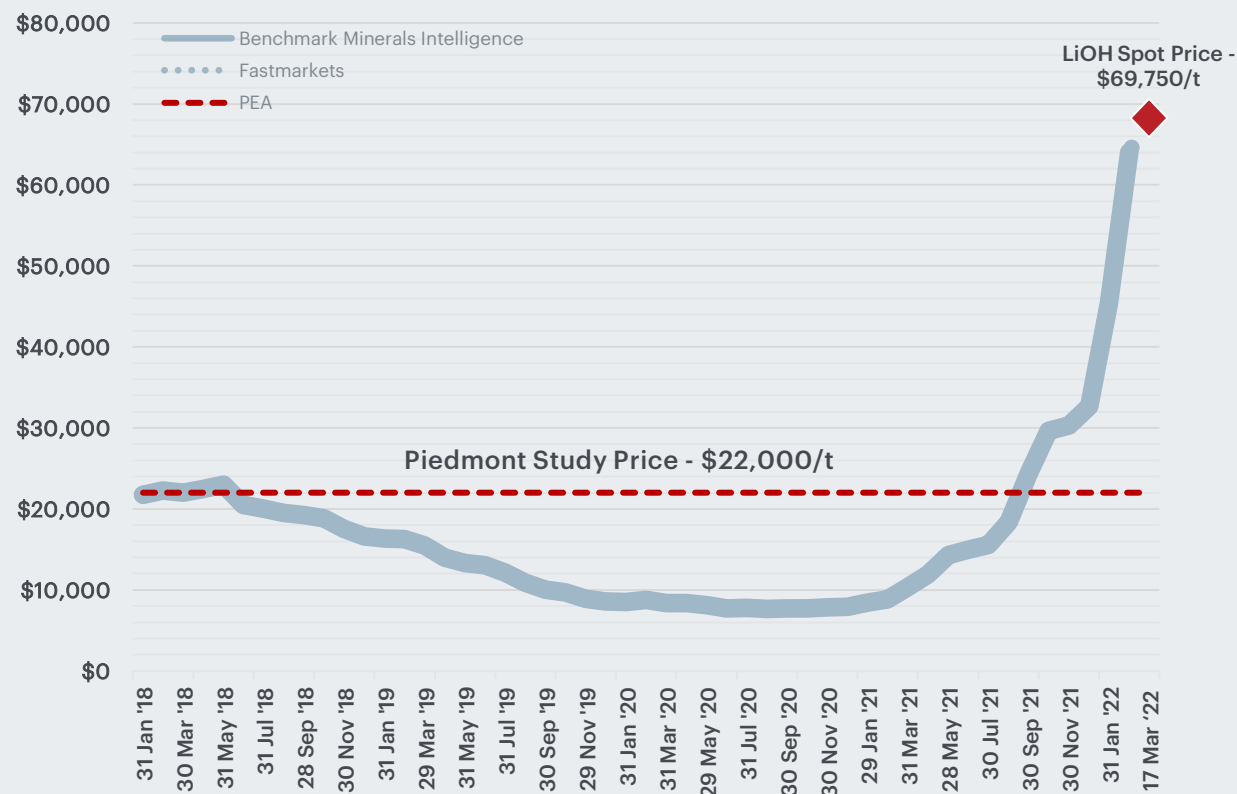
SELECTED US LITHIUM HYDROXIDE SUPPLY BY 2025+



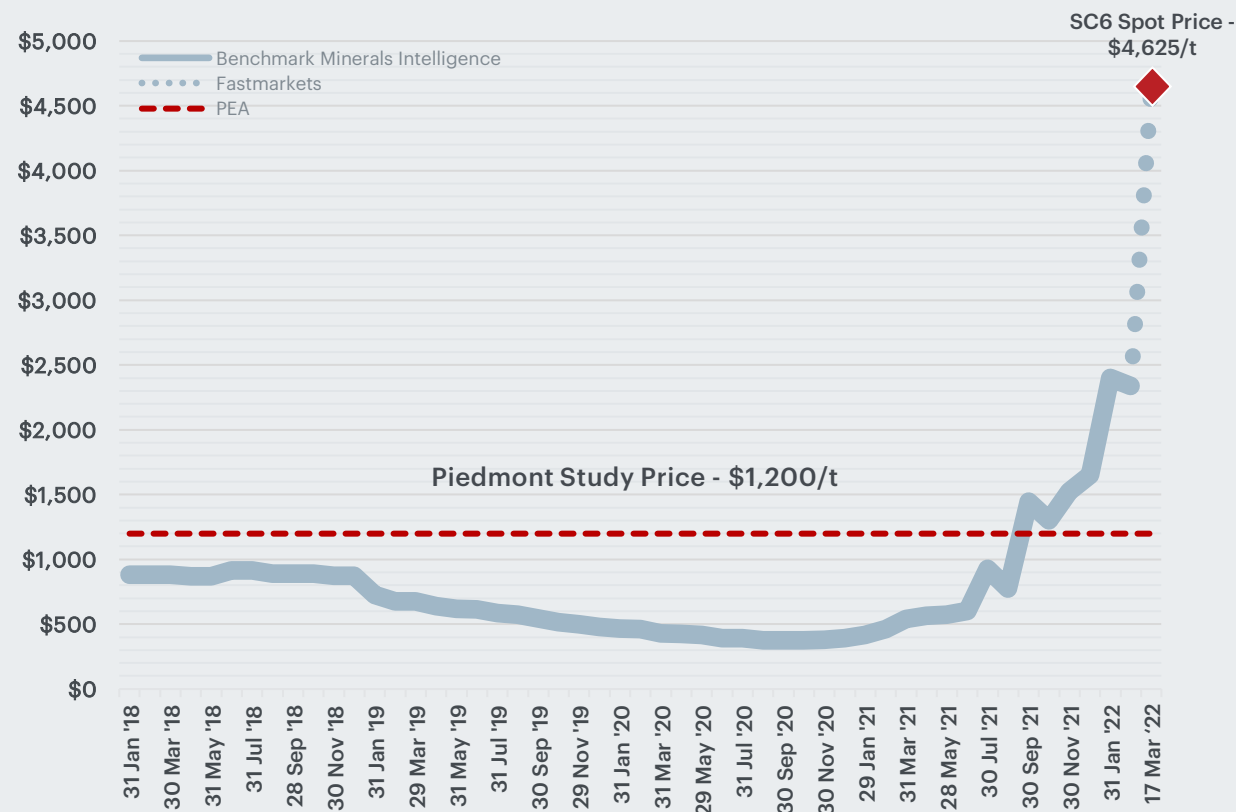
Source: Benchmark Mineral Intelligence – Lithium Forecast, Q3 2021, company announcements and Piedmont Lithium estimates

SUPPLY IMBALANCE IS DRIVING PRICES HIGHER

BATTERY GRADE LITHIUM HYDROXIDE PRICES (US\$/MT)



SPODUMENE CONCENTRATE 6% PRICES (US\$/MT)



Historical Prices – Benchmark Mineral Intelligence lithium hydroxide (EXW China) and spodumene 6%, FOB Australia as of February 28, 2022

Spot Price Reported by Fastmarkets CIF China 'mid-price' for lithium hydroxide and spodumene 6% on March 17, 2022

"Piedmont Study Price" are the fixed prices assumed in the financial model developed as part of our LHP-2 Preliminary Economic Assessment announced March 8, 2022

Nasdaq : PLL

ASX : PLL

PIEDMONT
LITHIUM

STRATEGIC ACTIVITY INCREASING

M&A and Strategic Investments Accelerating Due to Scarcity of World-class Resources

INDUSTRY CONSOLIDATION

- Piedmont / Sayona Mining
- Piedmont + Sayona / NAL
- Piedmont / Atlantic Lithium
- Orocobre / Galaxy -> Allkem
- Albemarle / Wodgina
- Pilbara / Altura
- SQM / Mt. Holland
- LAC / Millennial
- Livent / Nemaska
- Allkem / Advantage Lithium
- LAC / Arena Minerals
- Lepidico / Desert Lion

CHINESE GLOBAL GROWTH


- Ganfeng / Cauchari
- Ganfeng / Goulamina
- Ganfeng / Bacanora
- Ganfeng / Mt. Marion
- Ganfeng / Arena Minerals
- Ganfeng / Core Lithium
- Ganfeng / Galan Lithium
- Huayou / Prospect Resources
- Zijin / Neo Lithium
- Tsinghan / Eramet
- CATL / AVZ Minerals
- Nextview / Lithium X
- Tianqi / SQM
- China Hydrogen / Alita
- Yahua / Core Lithium

NEW INDUSTRY ENTRANTS

- Rio Tinto / Rincon
- IGO / Greenbushes
- Wesfarmers / Kidman
- POSCO / Sal de Vida
- POSCO / Pilbara JV
- Pluspetrol / LSC Lithium
- CEZ / European Metals
- Sibanye Stillwater / Ioneer
- Sibanye Stillwater / Keliber
- Schlumberger / Pure Energy
- IQ + Pallinghurst / Nemaska
- Koch / Standard Lithium
- Uranium One / Alpha Lithium
- Fortescue / Portugal exploration



PIEDMONT OVERVIEW

 Nasdaq :PLL

 ASX :PLL

ABN 50 002 664 495

LiOH

LEADERSHIP



KEITH PHILLIPS
Chief Executive Officer

COWEN

J.P.Morgan



Patrick Brindle
Chief Operating Officer



Bruce Czachor
Chief Legal Officer



Michael White
Chief Financial Officer



Austin Devaney
Chief Commercial Officer



Kris McVey
Chief Administrative Officer



Lamont Leatherman
Chief Geologist



Monique Parker
VP, Safety, Environment & Health



STRATEGIC
David Klanecky
CEO - Retrie Tech



John Walker
CEO - Tees Valley Lithium



OUR PROJECTS¹



	PLL Interest	Capex	Net Present Value ₈ (100% Project Basis)		Steady-State EBITDA (100% Project Basis)		Est. First Production
			Base Case ²	Spot Case ²	Base Case ²	Spot Case ²	
CAROLINA LITHIUM ³ <i>Gaston County, North Carolina, USA</i> 242,000tpy SC6 30,000tpy LiOH	100%	\$988mm	\$2.8bb	\$11.8bb	\$592mm	\$2.0bb	tbd
LITHIUM HYDROXIDE PLANT – 2 ⁴ <i>USA Location tbd</i> 30,000tpy LiOH	100%	\$572mm	\$2.2bb	\$8.6bb	\$346mm	\$1.2bb	tbd
EWOYAA ⁵ <i>Cape Coast, Ghana</i> 150,000tpy SC6 ⁶	50% ⁷	\$70mm	\$789mm	n/a	\$178mm	n/a	H1 2024
ABITIBI HUB <i>Quebec, Canada</i> 113,000tpy SC6 ⁸	37% ⁹	tbd	tbd	tbd	tbd	tbd	H1 2023



Integrated Project



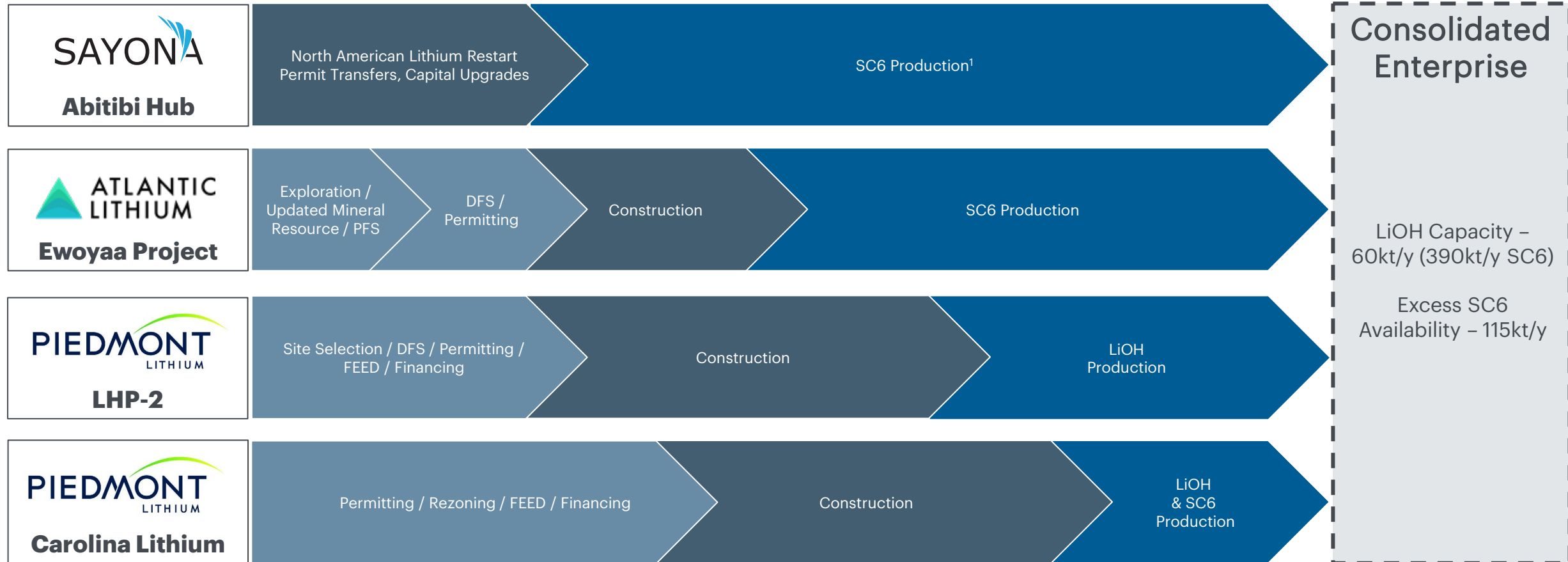
Lithium Hydroxide Project



Spodumene Concentrate Project

- The development, construction and operation of our projects may face risks that are commonly associated with the development, construction and operation of mining projects or facilities of similar nature and at similar development stages and are specifically subject to the risk factors as disclosed in Form 10-KT filed by the Company on February 28, 2022.
- Base Case assumes LiOH price of \$ 22,000/t and SC6 price of \$ 1,200/t, Spot Case assumes LiOH at \$ 66,500 and SC6 at \$4,000 based on Fastmarkets data on March 8, 2022. There are no assurances that either pricing level will be sustained over any duration and current spot prices are at all-time highs; such prices may not be reflective of price that would be incorporated into a new technical report if we were to be prepared at this time.
- The Carolina Lithium Project is the subject of a Bankable Feasibility Study with a Technical Report Summary filed on January 31, 2022. The Results shown for both Base Case and Spot Case NPV and Steady-State EBITDA are Company estimates based on LiOH and SC6 pricing referred to in footnote 2. For example, the Spot Case NPV is estimated by applying the revised spot price to the pricing model used in the aforementioned Technical Report Summary. Company estimates are indicative only and are not independently verified by the Carolina Lithium BFS Qualified Persons. Steady State EBITDA results shown for Carolina Lithium are for steady State during integrated operations during the first 10 years of operation.
- The Lithium Hydroxide Plant -2 Project is the subject of a Preliminary Economic Assessment issued on March 9, 2022. Its development remains subject to, among other things, a final site selection and financing. The Results shown for both Base Case and Spot Case NPV and Steady-State EBITDA are Company estimates based on LiOH and SC6 pricing referred to in footnote 2. Company estimates for Spot Case returns are indicative only and are not independently verified by Primero Group Americas, authors of the PEA.
- Refer to Atlantic Lithium AIM announcement dated December 7, 2021. Figures utilize \$900/t SC6 price.
- 150,000tpy is Piedmont's 50% offtake right according to the Project Target of 300,000tpy of SC6 reported in Atlantic Lithium's Scoping Study dated December 7, 2021.
- Piedmont owns an approximately 10% interest in Atlantic Lithium and has a 50% earn in right to Atlantic Lithium's Ghanaian projects, including Ewoyaa.
- Piedmont's offtake right at Abitibi is the greater of 50% of SC6 production or 113,000tpy.
- 37% interest based on Piedmont's approximately 16.5% equity interest in Sayona Mining and 25% ownership of Sayona Quebec

DEVELOPMENT PROGRESSION



1. Initial SC6 production from the restart of the North American Lithium mine. Additional potential spodumene ore production from Authier and potential LiOH production from Quebec are the subject of ongoing technical studies.

PROJECTS



CAROLINA LITHIUM (100% OWNERSHIP¹)

CL

Project	Carolina Lithium
Location	Gaston County, North Carolina
Project Stage	Feasibility Study
Mineral Resources	44.2Mt @ 1.08% Li ₂ O
Production	30,000tpy LiOH; 242,000tpy SC6
Economics	\$2.8bb NPV; \$592mm run-rate EBITDA

LiOH PLANT TWO (100% OWNERSHIP¹)

LHP-2

Project	Lithium Hydroxide Plant Two
Location	TBD, U.S.
Project Stage	Preliminary Economic Assessment
Production	30,000tpy LiOH
Economics	\$2.2bb NPV; \$346mm EBITDA

ABITIBI HUB (~37% ECONOMIC INTEREST²)

SYA

Project	Authier + NAL
Location	Abitibi Region, Quebec, Canada
Project Stage	DFS to be updated in 2022
Mineral Resources	119.1Mt @ 1.05% Li ₂ O ³
Production	PFS expected Q2 2022
Economics	PFS expected Q2 2022

ATLANTIC LITHIUM (EARN-IN OF 50% PROJECT INTEREST⁴)

ALL

Project	Ewoyaa
Location	Cape Coast, Ghana
Project Stage	Scoping + Exploration
Mineral Resources	21.3Mt @ 1.31% Li ₂ O ⁵
Production	300,000tpy SC6 (50% to PLL) ⁶
Economics	\$789mm NPV; \$70mm capex ⁶

- 1 Refer to Piedmont Lithium press release dated March 9, 2022. Financial results for Carolina Lithium are indicative Company estimates not independently verified by the Qualified Persons.
- 2 Piedmont owns a 25.0% interest in Sayona Quebec and a 16.5% stake in Sayona Mining, resulting in an effective economic interest of 37.4% in the Abitibi Lithium Hub.
- 3 Refer to Sayona Mining ASX announcement dated March 1, 2022 for JORC Code Compliant MRE.
- 4 Piedmont can earn a 50% interest in Atlantic Lithium's Ghanaian lithium portfolio and owns 9.9% of Atlantic Lithium.
- 5 Refer to Atlantic Lithium AIM announcement dated December 1, 2021 for JORC Code Compliant MRE.
- 6 Refer to Atlantic Lithium AIM announcement dated December 7, 2021.

ABITIBI HUB

Piedmont Owns a 25% Project Interest in Sayona Quebec and a 16.5% Equity Interest in Sayona Mining



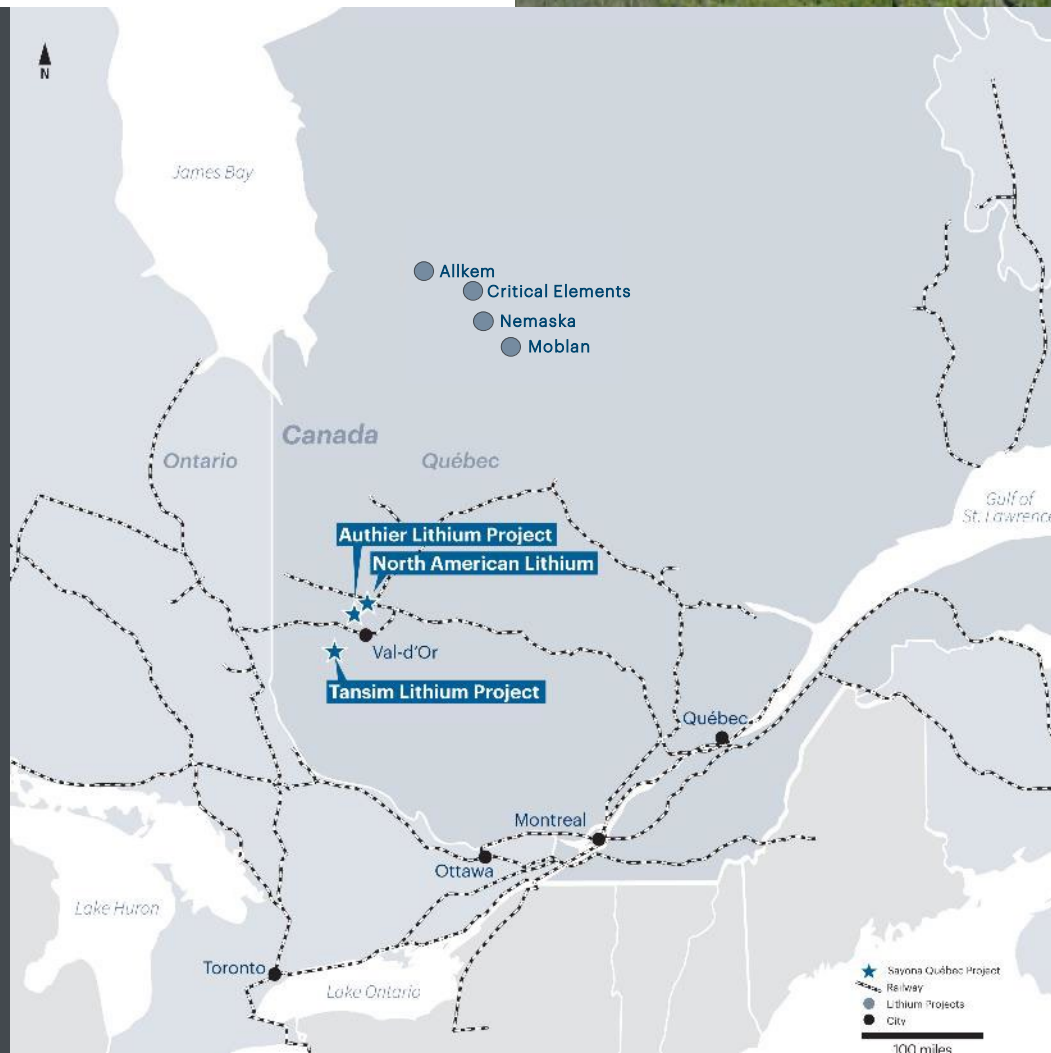
SYA

HIGHLIGHTS

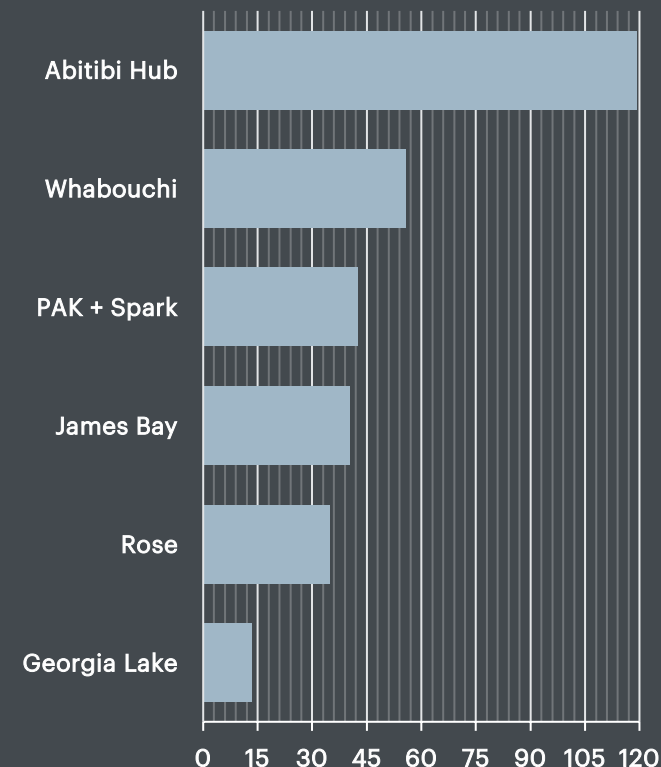
- Among Canada's largest and best-located lithium projects
- NAL is a past-producer with C\$400mm of capital investment
- Good rail and highway infrastructure
- Skilled local labor and contractors
- PLL offtake > of 50% of production or 113,000tpy SC6 – price ceiling \$900/t
- Low-cost renewable hydroelectricity

UPCOMING MILESTONES

- NAL restart decision expected in H1 2022
 - Sayona targeting first production in H1 2023
 - NAL nameplate 180,000tpy SC6
- Technical studies for integrated NAL/Authier targeted for H1 2022
- Evaluating LiOH production in Quebec



Canadian Spodumene Projects¹



¹ Total lithium resources (Mt) from public filings. Abitibi Hub Mineral Resources include JORC Code (2012) Mineral Resources of North American Lithium and Authier and are based on Sayona's public filing on March 1, 2022. Resources include Measured, Indicated and Inferred Categories

ATLANTIC LITHIUM

Piedmont Owns 9.9% of Atlantic Lithium and Can Earn a 50% Interest in ALL's Ghanaian lithium portfolio

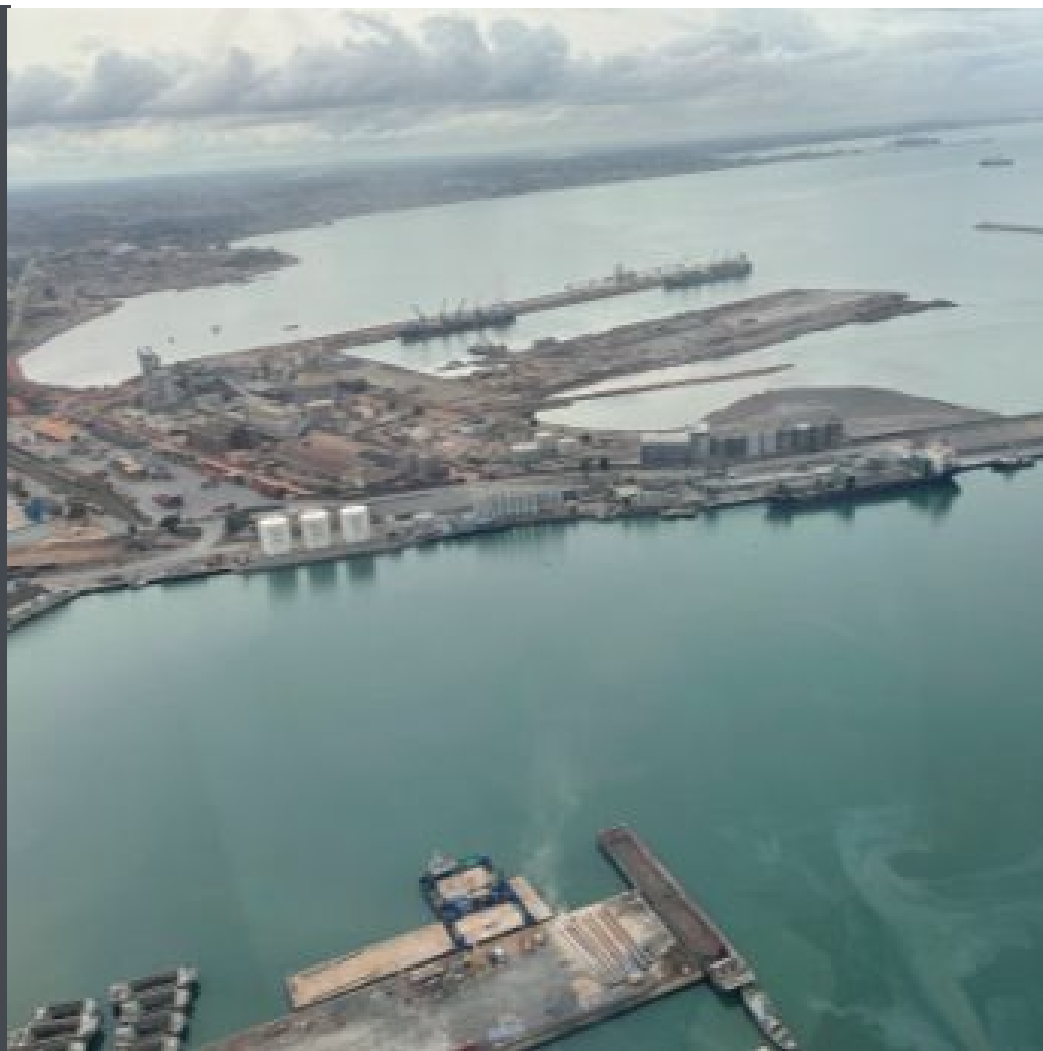
ALL

HIGHLIGHTS

- Mining-friendly jurisdiction
- ~70 miles from major port along national highway
- Short transport to North America for hydroxide conversion
- Coarse-grained spodumene implies low capex DMS flowsheet
- Adjacent hydroelectric powerlines

UPCOMING MILESTONES

- Exploration results and updated mineral resource
- Prefeasibility study expected H1 2022
- Bankable feasibility study expected Q4 2022
- Atlantic Lithium targeting first production in H1 2024



FACT SHEET

Location	Ghana
Project Stage	Exploration / Scoping
Business	Spodumene Concentrate
Resources	21.3Mt @ 1.31% Li ₂ O ¹
Production	300,000tpy SC6 ²
PLL Offtake	50% of annual production
DFS Timing	2022-2023
Production	2024-2025
Capex	\$70mm ²
Opex	\$249/t SC6 ²
After-tax NPV ₈	\$789mm ²
After-tax IRR	194% ²

¹ Refer to Atlantic Lithium AIM announcement dated December 1, 2021 for JORC Code Compliant MRE.

² Refer to Atlantic Lithium AIM announcement dated December 7, 2021.

NO. 2 LIOH PLANT (“LHP-2”)

100% Owned by Piedmont Lithium



HIGHLIGHTS

- 30,000tpy LiOH Production
- Merchant plant fed by market sources, including offtake agreements with Sayona Quebec and Atlantic Lithium
- Common physical and operating characteristics of Carolina Lithium Plant
- Features Metso:Outotec conversion technology

UPCOMING MILESTONES

- Site selection
- Definitive feasibility study
- Permitting
- Detailed engineering / FEED
- Project financing



FACT SHEET¹

Location	TBD
Project Stage	Preliminary Economic Assessment
Product	Lithium Hydroxide
Production	30,000tpy LiOH
Feedstock	196,000tpy SC6
Capex	\$572 million
Opex	\$10,630/t LiOH
EBITDA	\$346mm
After-tax NPV ₈	\$2.2 billion
After-tax IRR	33%
Payback	3.1 years

1: Refer to results of PLL Preliminary Economic Assessment announcement dated March 9, 2022.

CAROLINA LITHIUM

100% Owned by Piedmont Lithium

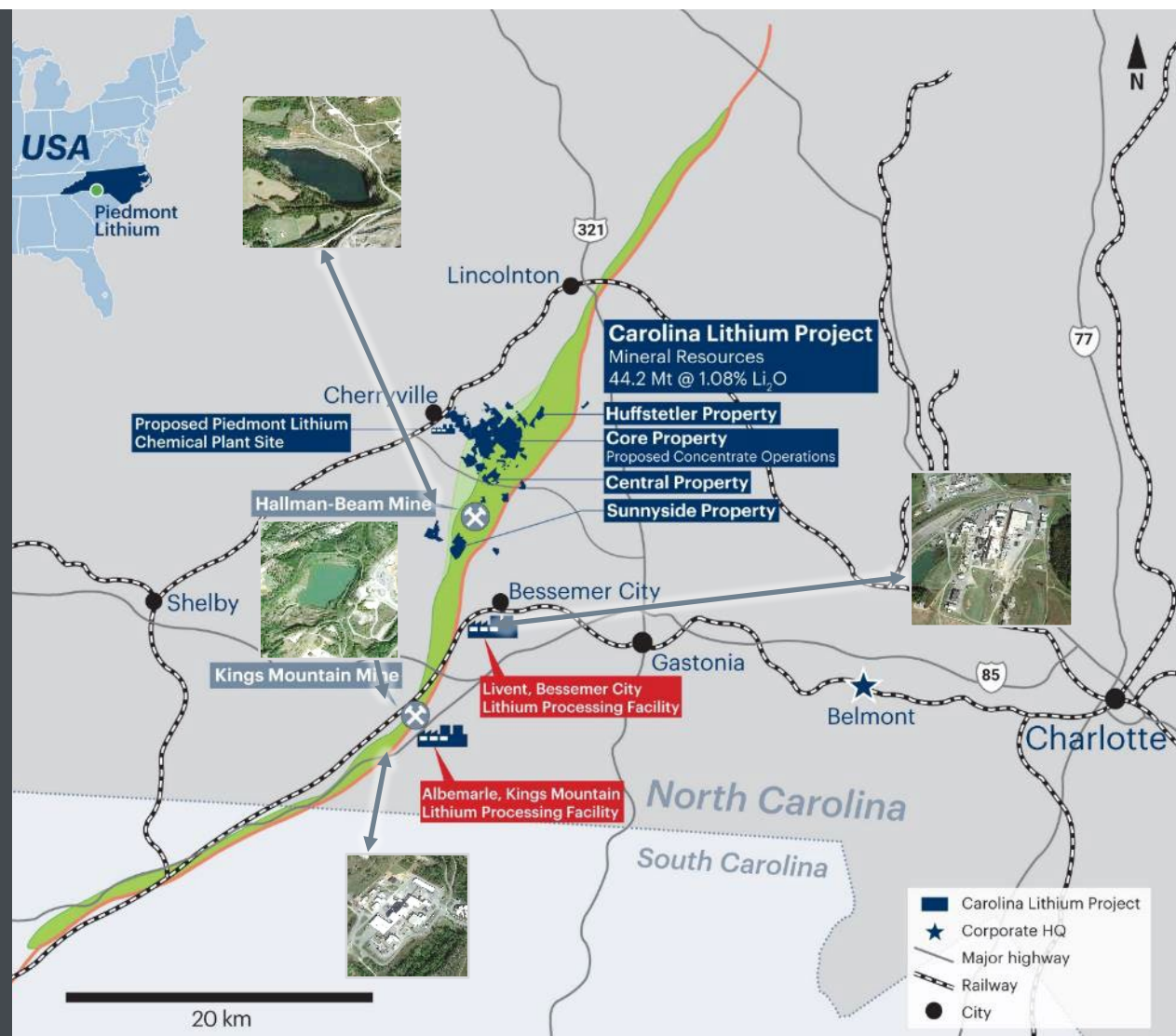
CL

HIGHLIGHTS

- Located in Gaston County, NC, the cradle of the lithium business
- Strong infrastructure
- Single integrated site
- Skilled local labor
- Proximity to lithium and byproduct markets
- Industry-leading ESG profile
- Projected to be a low-cost producer

UPCOMING MILESTONES

- Permitting and rezoning
- Detailed engineering / FEED
- LiOH and byproduct offtake
- Project financing
 - Strategic partnering
 - ATVM loan



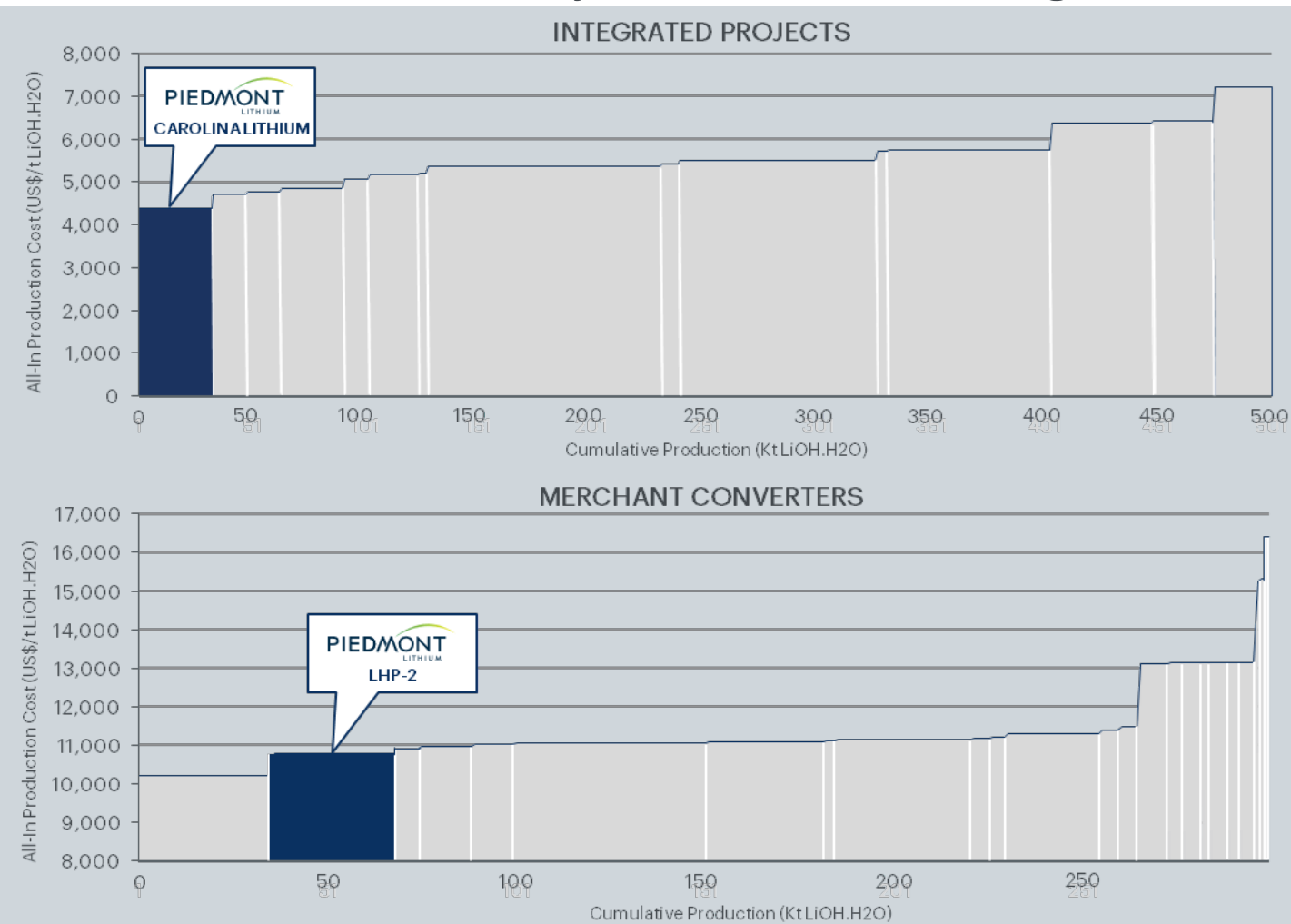
FACT SHEET¹

Location	North Carolina, USA
Project Stage	Feasibility Study
Product	Lithium Hydroxide
Resources	44.2Mt @ 1.08% Li ₂ O
Production	30,000tpy LiOH
Feedstock	242,000tpy SC6
Capex	\$988 million
Opex	\$4,377/t LiOH
EBITDA	\$592mm first 10 years
After-tax NPV ₈	\$2.8 billion
After-tax IRR	34%
Payback	2.9 years

1: Refer to results of PLL Preliminary Economic Assessment announcement dated March 9, 2022. Illustrative financial outcomes for the Carolina Lithium Project when applying a fixed price of \$22,000 per metric tonne of lithium hydroxide and \$1,200 per metric tonne of spodumene concentrate to the Carolina Lithium financial model. Results are Company estimates and indicative only and are not independently verified by the Carolina Lithium BFS Qualified Persons.

COST CURVES

Location Drives Projected Cost Advantages



Source: Roskill Lithium Cost Model Service - Extractive – 2028 Production and Cost Forecast
All-In Sustaining Cost includes all direct and indirect operating costs related directly to the physical activity of producing lithium compounds, including mining/extraction, processing, refining and on-site general and administrative costs.

PIEDMONT VS. AUSTRALIAN PRODUCERS



North
Carolina



Western
Australia

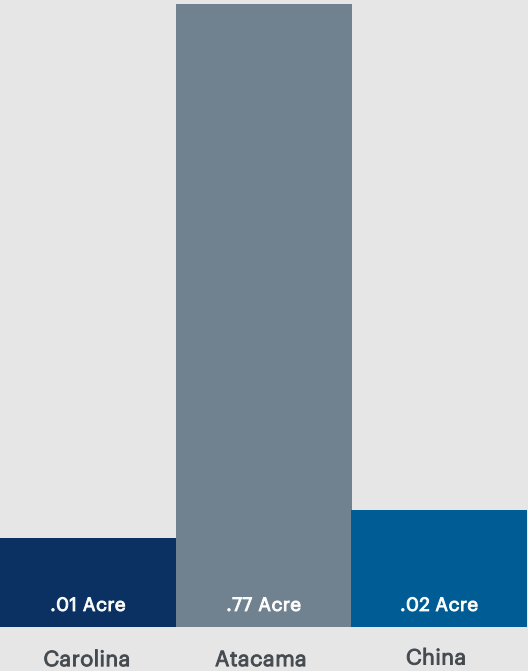


PLL Advantage
Per LiOH Tonne

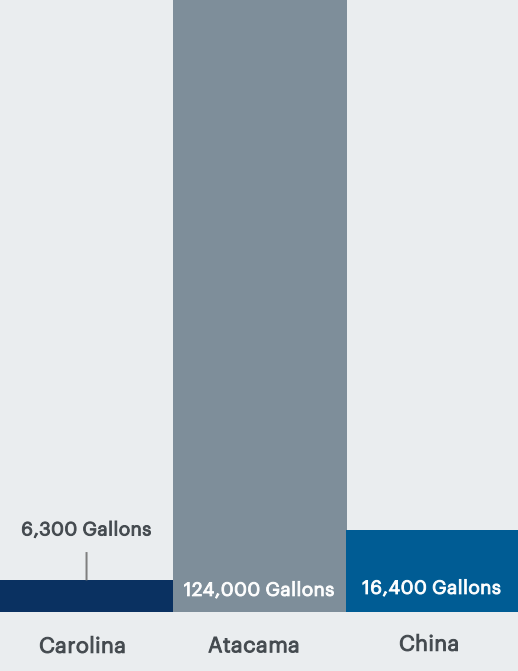
Personnel (US\$/y avg.)	\$90,000	\$150,000	~\$300
Electricity (kWh)	5.7c	17.0c	~\$300
Natural Gas (Gi)	\$4.01	\$9.00	~\$130
SC6 Transport (T)	\$2	\$71	~\$475
LiOH Tailing Disposal (T)	\$0	\$50	~\$350
State Royalties	0%	5%	~\$225
By-product Credits (T)	\$147	\$0	~\$950

Source: Assumes 6.5:1 SC6:LiOH ratio. Company estimates derived from PLL Bankable Feasibility Study results announced on December 15, 2021.

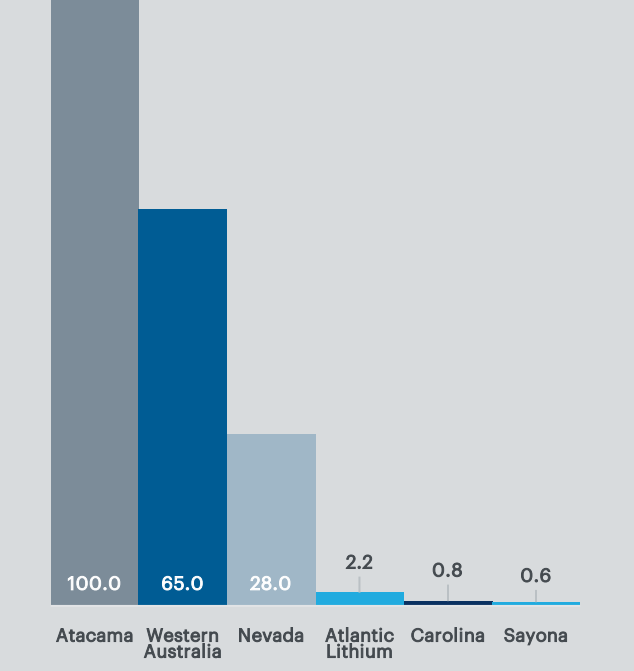
INDUSTRY LEADING SUSTAINABILITY



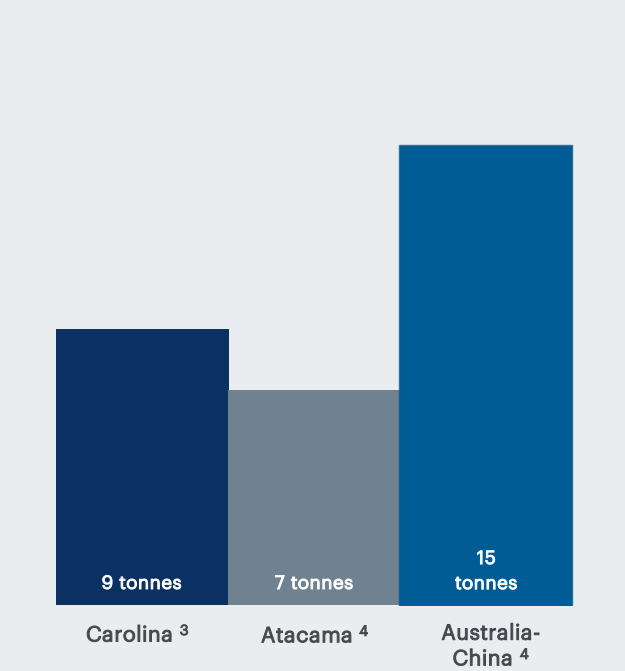
Land Footprint ¹
Per Tonne of Lithium Hydroxide Monohydrate Per Year



Direct Water Use ¹
Per Tonne of Lithium Hydroxide Monohydrate



Water Scarcity Factor ²
Measured on Index of 0 (low scarcity) to 100 (high scarcity)



Carbon Intensity (Scope 1-3)
Per Tonne of Lithium Hydroxide Monohydrate

1. Piedmont Lithium Calculations Based on Public Reports (2021)
 2. WULCA - AWARE Factors for Non-Agricultural Activities: <https://wulca-waterlca.org/aware/what-is-aware/>
 3. Prospective LCA Study of Lithium Hydroxide Production at the Piedmont Lithium Project, Minviro Confidential Report (2021) – Target Decarbonized Project Scenario
 4. The CO₂ Impact of the 2020s' Battery Quality Lithium Hydroxide Supply Chain, Minviro Public Report (2020)

CAROLINA LITHIUM

Advancing Project Regulatory Approvals for Development & Construction

Remaining Key Permit Approvals

Federal 404 Permit Received in 2019

- State Mining Permit – Submitted 8/31
 - Public Hearing completed 11/15/21 through 11/18/21
 - Responding to Department Comments
- Air Permit – Title V permit application expected submittal in Q2 2022
- Individual Stormwater and Wastewater Permit – applications planned for Q2 2022
- Local Approvals Applications will Follow State Mine Permit
 - Gaston County I-3 Industrial Rezoning
 - Gaston County Special Use Permit

Gaston County Quarry and Mining Ordinances

Reasonable and Fair Development and Operating Standards

- Blasting – daylight hours 6 days per week / excluding holidays
- Trucking – shipments allowed from 6:00 AM to 10:00 PM
- Reasonable setback distances to neighboring properties
- Noise mitigation plan standards
- Dust mitigation plan standards
- Security, access and fencing standards
- Visual screening, berms and wall standards
- Rezoning process mechanics clarified

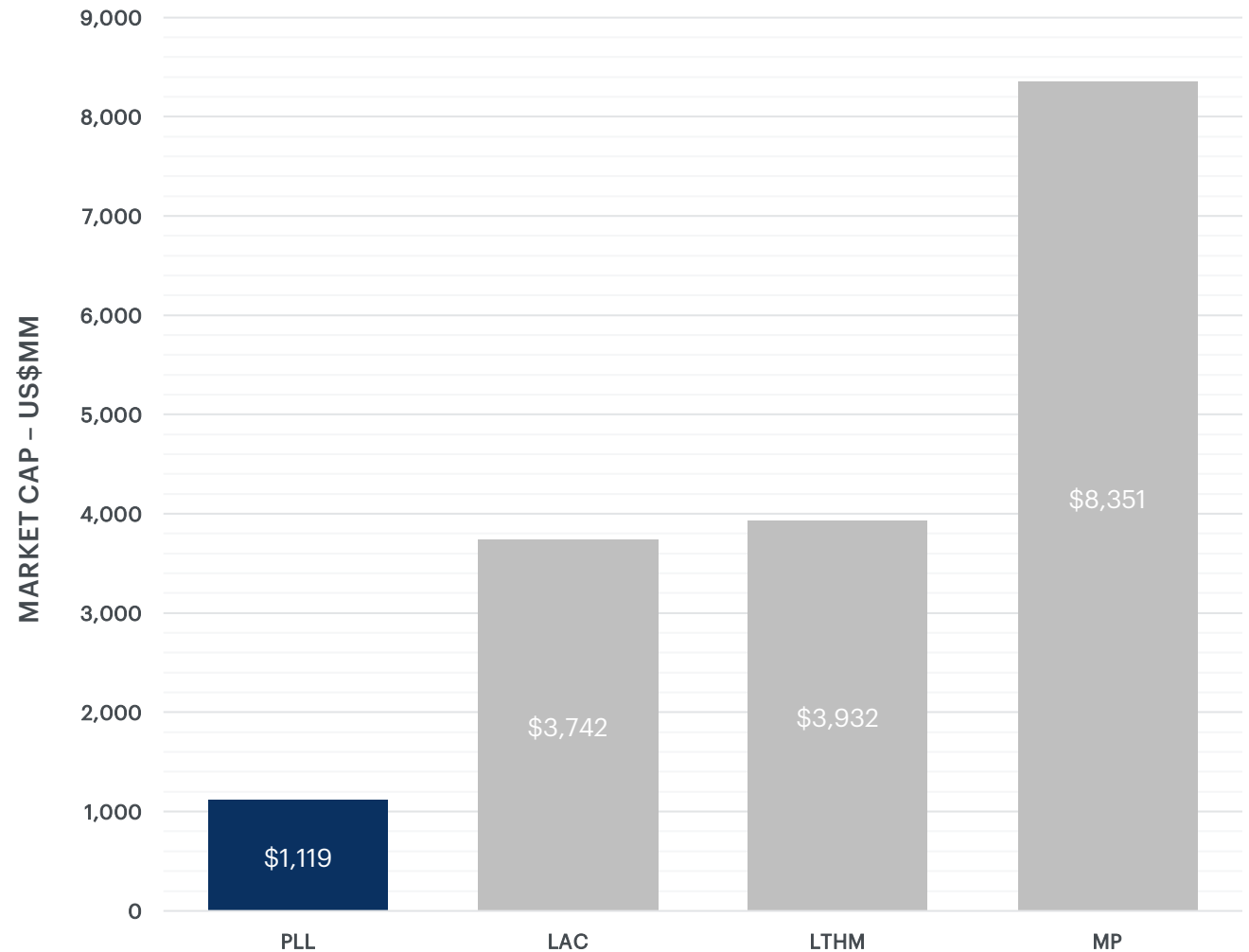
CATALYSTS TO DRIVE SHAREHOLDER VALUE

RECENT ACCOMPLISHMENTS

- ✓ Added depth to leadership team
- ✓ Redomiciled to become a U.S. company
- ✓ Underpinned future growth through strategic investments
 - ✓ 37% interest in Sayona Quebec including NAL
 - ✓ 9.9% of ALL and earning 50% project interest
- ✓ Bankable Feasibility Study for Carolina Lithium
- ✓ Preliminary Economic Assessment for LHP-2

KEY FUTURE MILESTONES

- ☐ Abitibi Hub – feasibility study / NAL restart decision
- ☐ Ewoyaa – resource update / feasibility study / permitting
- ☐ LHP-2 – site selection, DFS, long-lead items and permitting
- ☐ Carolina Lithium – permitting and land consolidation
- ☐ Lithium and byproduct sales agreements
- ☐ Strategic partnering and project financing



Notes: Market caps as of March 18, 2022



WHY PIEDMONT?

A Premier Lithium Development Company

Strong Lithium Market Fundamentals	<ul style="list-style-type: none">▪ Total Addressable Market for lithium expected to exceed \$50 billion for EV applications by 2030¹▪ EV penetration expected to grow 10x from ~4% in 2020 to over ~40% by 2030▪ Supply/demand imbalance has driven lithium prices to all-time highs
Three Strategic Spodumene Resources	<ul style="list-style-type: none">▪ North Carolina offers favorable infrastructure, talent and proximity to large customers▪ Sayona/NAL investment in Quebec capitalizes on low-cost, sustainable hydroelectricity▪ Atlantic Lithium may provide additional high-quality SC6 to support North American LiOH production
Growth Pipeline with Attractive Economics	<ul style="list-style-type: none">▪ Large spodumene resource base underpins potential growth in lithium hydroxide production▪ \$2.8 billion NPV for Carolina Lithium; low capex expected in Quebec (brownfield) and Ghana (DMS)▪ Economies of scale should be available with additional trains at core LiOH sites
Proven Leadership Team	<ul style="list-style-type: none">▪ Operational team with large company mining and specialty chemicals experience▪ Experienced people in all senior staff functions▪ Senior leadership focused on driving shareholder value in a responsible way
Sustainable Business Model	<ul style="list-style-type: none">▪ Targeting low carbon, water and land footprint relative to other conventional lithium projects▪ Expect to utilize renewable solar power in North Carolina and hydro power in Quebec and Ghana▪ Fully-integrated LiOH manufacturing and by-product credits drive low-cost position
Focused on Execution in 2022	<ul style="list-style-type: none">▪ Detailed engineering underway for restart of NAL with first production possible in H1 2023▪ Ewoyaa Feasibility Study expected in Q4 2022 with possible construction decision to follow▪ Site selection, feasibility study, and permitting activities for LHP-2▪ Completing permitting, engineering and financing for Carolina Lithium

ORE RESERVES AND MINERAL RESOURCES

PLL Global Mineral Resources - 100% Basis for Each Project

Category	Carolina Lithium ¹				Sayona Quebec ²				Atlantic Lithium ³			
	Mt	Grade (Li ₂ O%)	Li ₂ O (kt)	LCE (kt)	Mt	Grade (Li ₂ O%)	Li ₂ O (kt)	LCE (kt)	Mt	Grade (Li ₂ O%)	Li ₂ O (kt)	LCE (kt)
Ore Reserves												
Proven	-	-	-	-	-	-	-	-	-	-	-	-
Probable	18.3	1.10%	200	495	-	-	-	-	-	-	-	-
Total Ore Reserves	18.3	1.10%	200	495	-	-	-	-	-	-	-	-
Mineral Resources												
Measured	-	-	-	-	7.5	0.98%	74	182	-	-	-	-
Indicated	28.2	1.11%	313	774	80.3	1.05%	846	2,091	5.2	1.39%	73	179
Total M&I	28.2	1.11%	313	774	87.8	1.05%	920	2,273	5.2	1.39%	73	179
Inferred	15.9	1.02%	162	401	31.2	1.07%	334	826	16.1	1.28%	206	510
Total	44.2	1.08%	475	1,175	119.0	1.05%	1,254	3,099	21.3	1.31%	279	689

1: Piedmont Lithium Mineral Resources as of October 21, 2021 and Ore Reserves as of December 14, 2021.

2: Refer to Sayona Mining ASX announcement dated March 1, 2022 for JORC Code Compliant MRE.

3: Refer to Atlantic Lithium AIM announcement dated December 1, 2021 for JORC Code Compliant MRE.

LiOH



LITHIUM – MADE IN THE USA

Helping Secure America's Energy Independence

March 2022

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