



NAATBATT MEMBER UPDATE

Helping Secure America's Energy Security

Nasdaq :PLL
ASX :PLL
ARBN 647 286 360

February 2023

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 of Sayona Mining, Atlantic Lithium and Piedmont Lithium; 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 and deliver mineral deposits to Tesla or another party, (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, Sayona Mining's or Atlantic Lithium's ability to obtain required capital to execute its business plan, (v) Piedmont's, Sayona Mining's or Atlantic Lithium'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 related to Piedmont's projects as well as the projects of our partners in Quebec and Ghana, (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 Mining or 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.

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 under the U.S. Securities and Exchange Commission ("SEC") in Regulation S-K, Item 1300 ("S-K 1300") or 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.

WHY PIEDMONT?

Decarbonization and Onshoring

U.S. Government EV Focus

Near-Term Cash Flow Potential

Large Spodumene Resource Base

Downstream Integration to Hydroxide

Diversified by Project and Geography

Strong Lithium Markets

CORPORATE SNAPSHOT

PIEDMONT LITHIUM



Shares / CDIs Outstanding (100 CDIs = 1 Share)	18.01 mm	1,801.0 mm
Price (@ 1/23/22)	\$65.47	A\$0.90
Average Daily Trading Volume (90-day)	\$29 mm	A\$3 mm
Market Cap (@ 1/23/23)	\$1.2 bb	A\$1.7 bb
Cash (9/30/22)	\$118 mm	A\$167 mm
Equity Interests at Market (@ 1/23/23)	\$249 mm	A\$355 mm

RESEARCH COVERAGE



SHORTFALLS ANTICIPATED IN THE U.S.¹

U.S. Battery Plants Expected to Require >40x Current U.S. Lithium Hydroxide Capacity

SELECTED U.S. GIGAFACTORIES

Panasonic

Expected to be 50 GWh in De Soto, Kansas.

TESLA

Two operational plants with ≈44 GWh in Nevada. Working to open Gigafactory Texas and has a pilot line in Fremont, California.

LG Energy Solution

11 GWh cylindrical battery plant in Queen Creek, Arizona.

microvast

2 GWh plant in Clarksville, Tennessee in 2022.

ENVISION

It has a 3 GWh factory in Smyrna, Tennessee and a 30 GWh factory in Bowling Green, Kentucky.

STELLANTIS SAMSUNG SDI

33 GWh battery cell facility in Kokomo, Indiana.

HONDA LG Energy Solution

40 GWh facility in Fayette County, Ohio.

STELLANTIS LG Energy Solution

40 GWh battery cell facility in Lordstown, Ohio.

iM3NY

Capacity of 1 GWh and expandable to more than 15 GWh.

Ford SK innovation

To produce 129 GWh annually in Kentucky and Tennessee.

TOYOTA

To build a ≈30 GWh battery cell facility in Greensboro, NC.

VINFEST

Announced first North American plant in North Carolina, with production by 2024.

ENVISION BMW

Multi-year partnership to provide battery cells. First 30 GWh plant in South Carolina.

ultium cells

35 GWh plant in Ohio, and 50 GWh plants in Tennessee and Michigan.

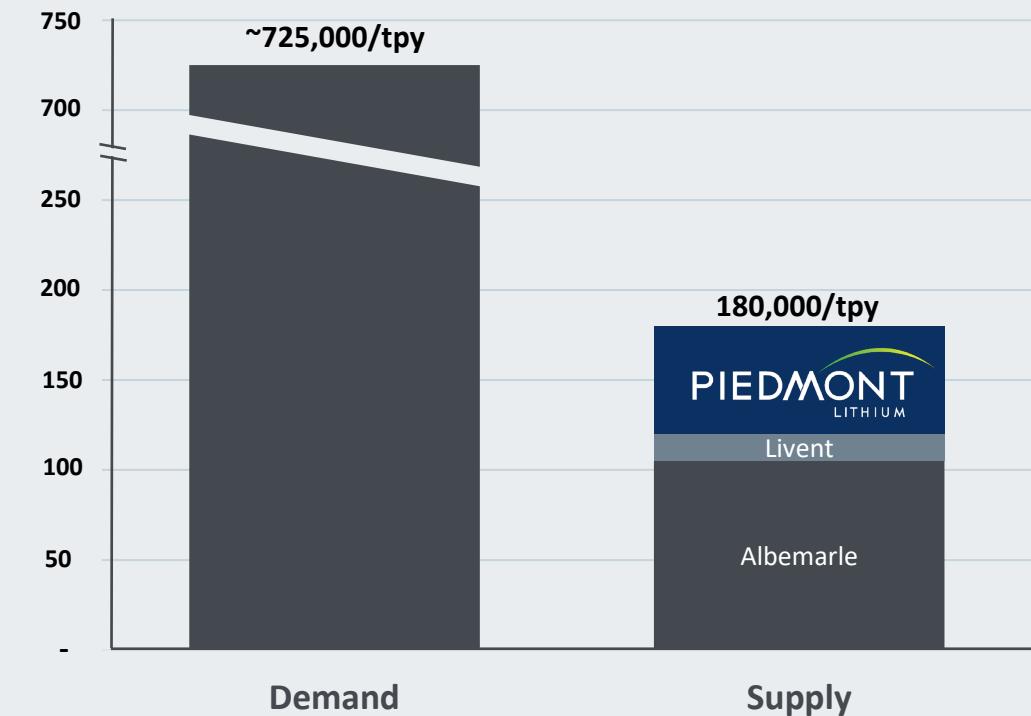
HYUNDAI

Two plants in Georgia, one with SK On.

SAFT

1 GWh plant in Florida.

ANNOUNCED ANNUAL GIGAFACTORY DEMAND AND US LIOH SUPPLY BY 2030



1. Based on announced and planned U.S. gigafactory capacity / demand and lithium hydroxide supply from corporate announcements



PIEDMONT LITHIUM

Nasdaq :PLL
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ABN 50 002 664 495

LiOH

PROJECTS



QUEBEC (~35% ECONOMIC INTEREST¹)



Project	Authier + NAL
Location	Abitibi Region, Quebec, Canada
Project Stage	Pre-Feasibility
Mineral Resources	119.1Mt @ 1.05% Li ₂ O ²
Production	168,000tpy SC6 ³
Economics	\$571mm NPV; \$80mm capex ³

GHANA (EARN-IN OF 50% PROJECT INTEREST⁴)



Project	Ewoyaa
Location	Cape Coast, Ghana
Project Stage	Pre-Feasibility
Mineral Resources	30.1Mt @ 1.26% Li ₂ O ⁵
Production	255,000tpy SC6 (50% to PLL) ⁶
Economics	\$1.3bb NPV; \$125mm capex ⁶

TENNESSEE LITHIUM (100% OWNERSHIP⁷)



Project	Tennessee Lithium
Location	McMinn County, Tennessee
Project Stage	PEA
Production	30,000tpy LiOH
Economics	\$2.2bb NPV; \$346mm run-rate EBITDA

CAROLINA LITHIUM (100% OWNERSHIP⁸)



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

1. Piedmont owns a 25% interest in Sayona Quebec and a 13.9% stake in Sayona Mining, resulting in an effective economic interest of ~35%.

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

3. Refer to Sayona Mining ASX announcement dated May 23, 2022 for results of NAL Pre-Feasibility Study.

4. Piedmont can earn a 50% interest in Atlantic Lithium's Ghanaian lithium portfolio and owns 9.4% of Atlantic Lithium.

5. Refer to Atlantic Lithium AIM announcement dated March 24, 2022 for JORC Code Compliant MRE.

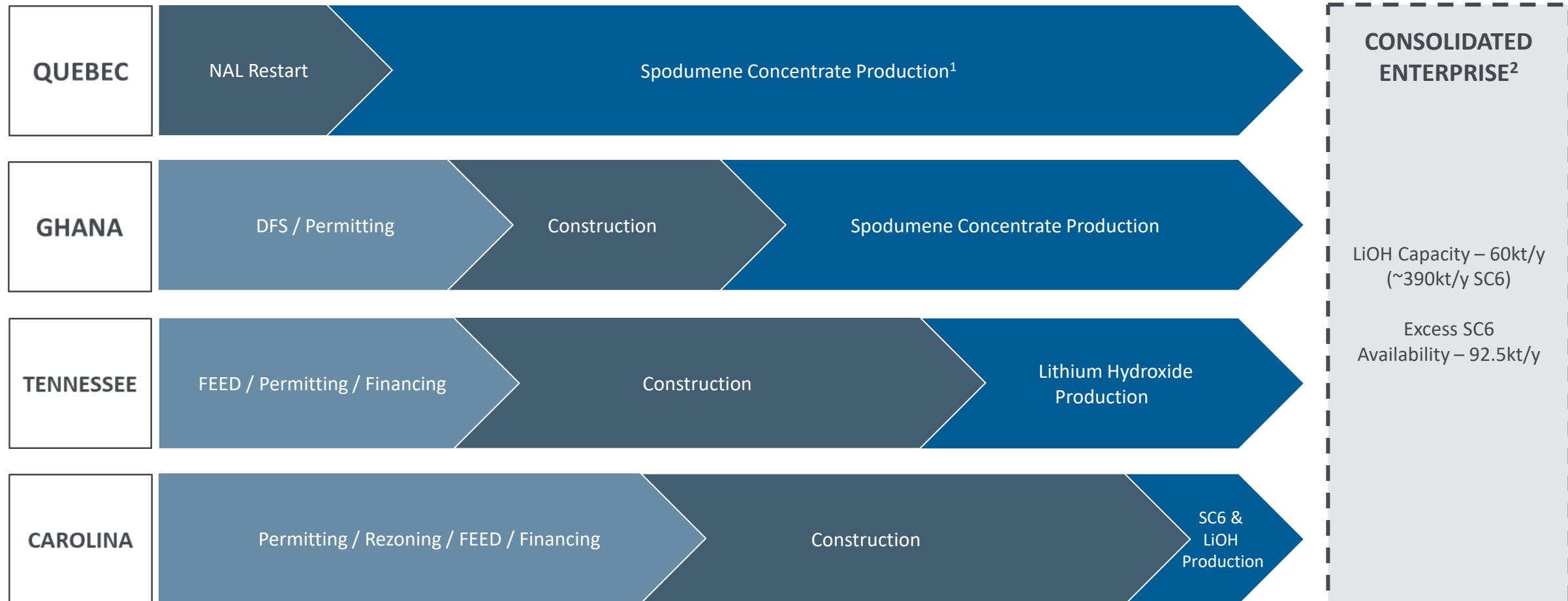
6. Refer to Atlantic Lithium AIM announcement dated September 22, 2022 for results of Pre-Feasibility Study.

7. Refer to Piedmont Lithium press release dated September 1, 2022 for site selection and March 9, 2022 for Preliminary Economic Assessment.

8. Refer to the result of Piedmont Lithium Bankable Feasibility Study announcement dated December 14, 2021. Economics for Carolina Lithium are indicative Company estimates disclosed in the PEA dated March 9, 2022 and are not independently verified by the BFS Qualified Persons.

FIRST PRODUCTION ANTICIPATED H1 2023

Indicative Timelines – actual timelines remain subject to permitting and funding.



1. Initial SC6 production from the restart of the North American Lithium mine. Potential lithium carbonate or lithium hydroxide production from Quebec is the subject of further technical studies.

2. Figures for LiOH Capacity and Excess SC6 Availability are based on studies released by Piedmont Lithium, Sayona Mining and Atlantic Lithium covering each project. See Peer Project Notes in the appendix for pro-rata production figures.

QUEBEC

NAL Restart Targeted for H1 2023



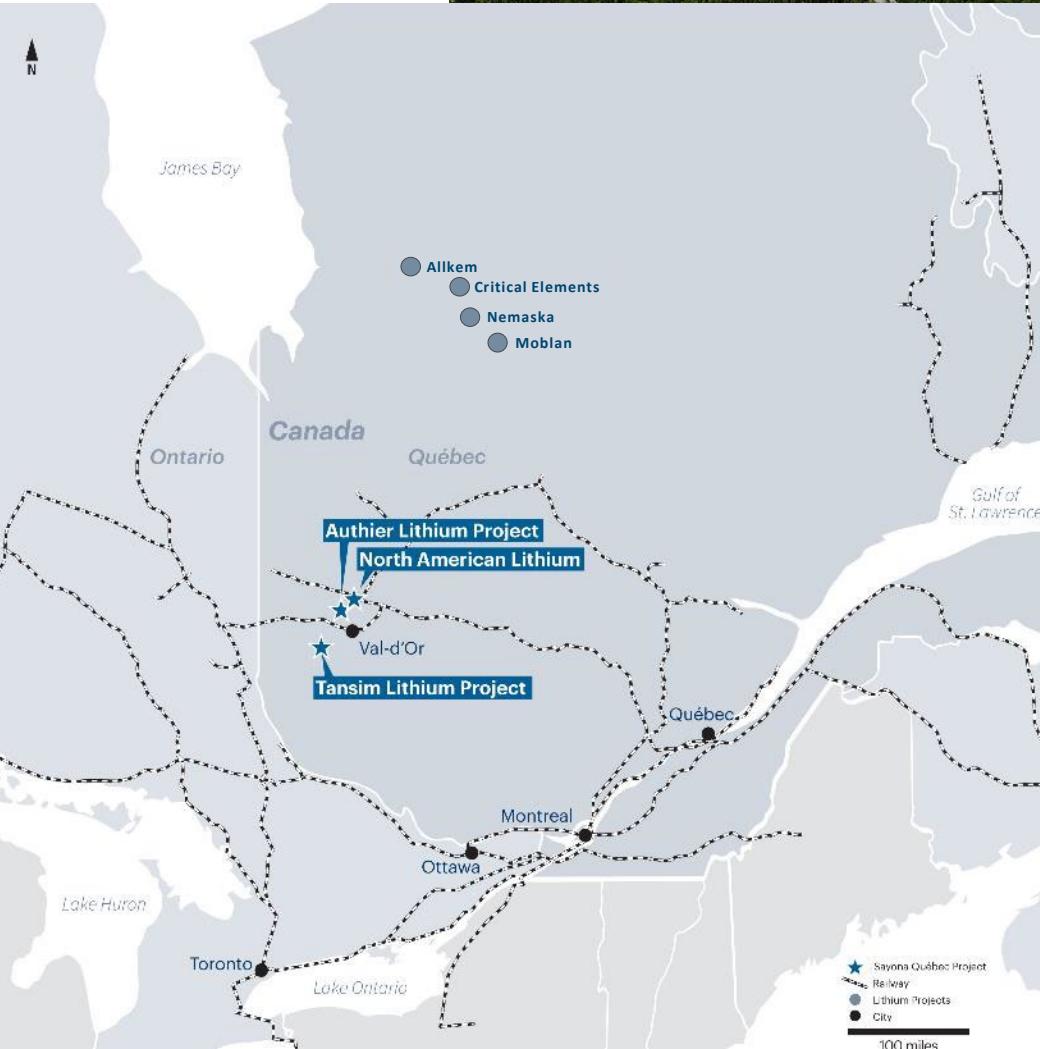
SYA

HIGHLIGHTS

- Piedmont Interest¹
 - 13.9% SYA shares = \$221mm
 - 25% of Sayona Quebec
 - SYA market cap = \$1.6bb
 - Offtake – 113,000tpy SC6 with ceiling price of \$900/t
- Among Canada's largest and best-located lithium projects
- NAL is a past-producer with C\$400mm of capital investment
- Good road and rail access
- Skilled local labor and contractors
- Low-cost renewable hydroelectricity

UPCOMING MILESTONES

- NAL restart targeted for H1 2023
- PLL offtake for its share of SC6
- PFS for completion of on-site carbonate refinery to be completed in H1 2023



FACT SHEET

Location	Québec
Project Stage	Restart H1 2023
Business	Spodumene Concentrate
Production	168,000tpy SC6 ²
PLL Offtake	Greater of 50% of production or 113,000tpy ³
Offtake Price	Price Floor: \$500/t Price Ceiling: \$900/t ³
Production	2023
Capex	\$80mm ²
Opex	\$590/t SC6 ²
After-tax NPV ₈	\$571mm ²

1. Piedmont owns ~1.2bb shares of Sayona Mining (ASX: SYA) and 25% of the Sayona Quebec joint venture. Market cap as of January 23, 2023.
2. See Sayona Mining ASX announcement dated May 23, 2022 for NAL pre-feasibility announcement.
3. Refer to Piedmont's announcement dated June 28, 2022 for a summary of offtake agreement terms.

GHANA

Atlantic Lithium May Provide Additional High Quality SC6 to Support North American LiOH Operations



HIGHLIGHTS

- Piedmont Interest¹
 - 9.4% ALL shares = \$29mm
 - Earning 50% of Ghanaian lithium portfolio
 - ALL market cap = \$305mm
 - Offtake – 50% of life of mine production at market
- Mining-friendly jurisdiction
- ~70 miles from major port along national highway
- Efficient transport to Tennessee for hydroxide conversion
- Coarse-grained spodumene implies low capex DMS flowsheet
- Adjacent hydroelectric powerlines

UPCOMING MILESTONES

- Mineral Resource update – Q1 2023
- Definitive feasibility study – 2023



FACT SHEET

Location	Ghana
Project Stage	Pre-Feasibility
Business	Spodumene Concentrate
Resources	30.1Mt @ 1.26% Li ₂ O ²
Production	255,000tpy SC6 ³
PLL Offtake	50% of annual production
DFS Timing	2023
Capex	\$125mm ³
Opex	\$278/t SC6 ³
After-tax NPV ₈	\$1.33bb ³
After-tax IRR	224% ³

1. Piedmont owns ~56.9mm shares of Atlantic Lithium (AIM: ALL) and has an earn-in agreement for 50% of the Ewoyaa project. Market cap as of January 23, 2023.
2. Refer to Atlantic Lithium AIM announcement dated March 24, 2022 for JORC Code Compliant MRE.
3. Refer to Atlantic Lithium AIM announcement dated September 22, 2022.

TENNESSEE LITHIUM

100% Owned by Piedmont Lithium

HIGHLIGHTS

- 30,000tpy LiOH Production
- Spodumene feed from market sources, including offtake agreement with Atlantic Lithium
- Excellent rail, river and road transport
- Sister plant to the LiOH plant planned at Carolina Lithium
- Awarded \$142mm DOE grant under Bipartisan Infrastructure Law

UPCOMING MILESTONES

- FEED – mid-2023
- Project financing
 - Strategic partnering
 - ATVM loan



TEN

FACT SHEET¹

Location	Etowah, McMinn County, TN
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. All amounts are estimated based on current projections.

CAROLINA LITHIUM

100% Owned by Piedmont Lithium

HIGHLIGHTS

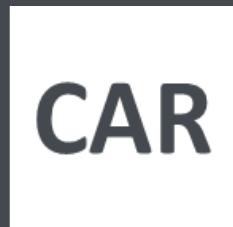
- Located in Gaston County, NC, the cradle of the lithium business
- Strong infrastructure
- Single integrated site
- Skilled local labor
- Proximity to lithium and byproduct markets
- Industry-leading ESG profile
- Projected to be a low-cost producer

UPCOMING MILESTONES

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



“We have to lead by example. And if we do that, we'll accelerate our self-dependence and eliminate reliance on China by decades. And that's why I support this project.” U.S. Senator Thom Tillis, speaking at the groundbreaking for Piedmont's new corporate HQ in Belmont, NC, August 31, 2022.



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 ²
After-tax NPV ₈	\$2.8 billion ²
After-tax IRR	34% ²
Payback	2.9 years ²

1. Refer to results of PLL Bankable Feasibility Study announcement dated December 14, 2021. Estimates prepared pursuant to SEC S-K 1300 and the JORC Code.

2. 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.



LiOH

PIEDMONT
LITHIUM

LITHIUM – MADE IN THE USA

Helping Secure America's Energy Security

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