

LITHIUM - MADE IN THE USA

Building an American Source of Lithium Hydroxide to Power the Electric Vehicle Transition





ARBN 647 286 360



PIEDMONT AT A GLANCE

Building an American Source of Lithium Hydroxide to Power the Electric Vehicle Transition



An American company – based in Gaston County, NC



Strategic location on historic Carolina Tin-Spodumene Belt



Only U.S. integrated spodumene-to-hydroxide project



Industry leading sustainability profile



Exceptional scale and economics



Strategic investment in Quebec via Sayona



Strong balance sheet to fund growth

CORPORATE SNAPSHOT

PIEDMONT LITHIUM INC.	Nasdaq	₩ ASX
Shares / CDIs (100 CDIs = 1 Share)	15.75 M	1,574.6 M
Price (@ 6/8/21)	\$68.64	A\$0.90
Average Daily Trading Volume (30-day)	\$29 M	A\$4 M
Market Cap (@ 6/8/21)	\$1,081 M	A\$1,397 M
Cash (@ 3/31/21)	\$167 M	A\$216 M

BOARD OF DIRECTORS

Jeff Armstrong	USA	Chairman
Keith Phillips	USA	President & CEO
Jorge Beristain	USA	Director
Claude Demby	USA	Director
Todd Hannigan	Australia	Director
Susan Jones	Canada	Director

RESEARCH COVERAGE

<u>J.P.Morgan</u>

EVERCORE ISI

CANACCORD Genuity













OUR PROJECTS





CAROLINA LITHIUM (100% OWNERSHIP)

Key Project	Carolina Lithium Project
Project Stage	Scoping (DFS completion Q3 2021)
Mineral Resources	39.2Mt @ 1.09% Li ₂ O
SC6 Production	248,000 t/y
LiOH Production	30,000 t/y
Project Life	20 Years



SAYONA QUEBEC (39.84% ECONOMIC INTEREST¹)

Key Project	Authier Lithium Project
Project Stage	DFS (Definitive Feasibility Study)
Ore Reserves	12.1Mt @ 1.00 Li ₂ O
Mineral Resources	20.9Mt @ 1.01 Li ₂ O
SC6 Production	113,000 t/y
LiOH Production	TBD
Project Life	13 Years

Note 1: Piedmont owns a 19.79% stake in Sayona Mining via common shares and convertibles, and a 25.0% interest in Sayona Quebec, resulting in an effective economic interest of 39.84%.

EXCEPTIONAL ECONOMICS

\$401MMRun-rate EBITDA

\$1.9B After-tax NPV 31% After-tax IRR

30,000t/y LiOH Production

\$2,943/t LiOH Cash Cost 20 year
Project Life

ECONOMIC BENEFITS OF NORTH CAROLINA LOCATION

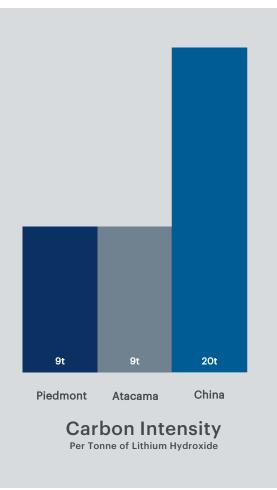
- Ideal infrastructure
- Short transport distances
- Deep local talent pool
- Low-cost energy
- Integrated SC6-to-LiOH on a single site
- Proximity to local byproduct markets
- Low royalties and taxes

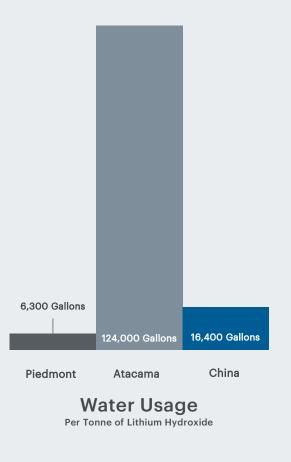


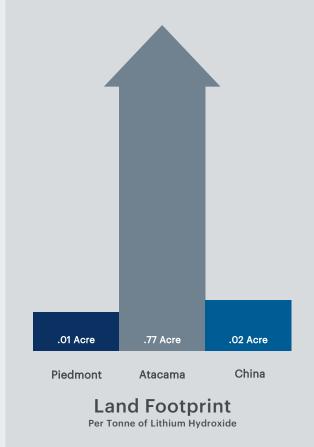




INDUSTRY LEADING SUSTAINABILITY







SUSTAINABILITY BENEFITS OF CAROLINA LITHIUM PROJECT

- Vastly diminished 'quarry-to-EV' supply chain distances
- Captive solar to power most operations
- In-pit crushing and electric conveying to reduce emissions
- By-product recovery minimizes waste
- Metso-Outotec flowsheet reduces CO₂ emissions and reagent usage
- Relatively low water usage and land footprint

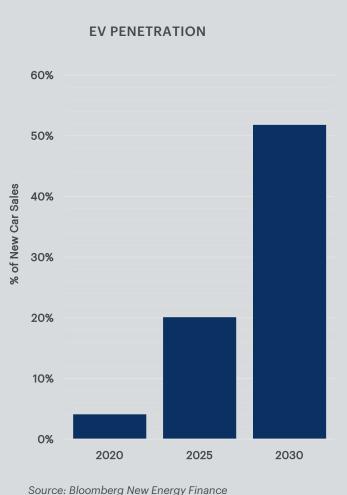
Sources: Minviro Reports and Company estimates



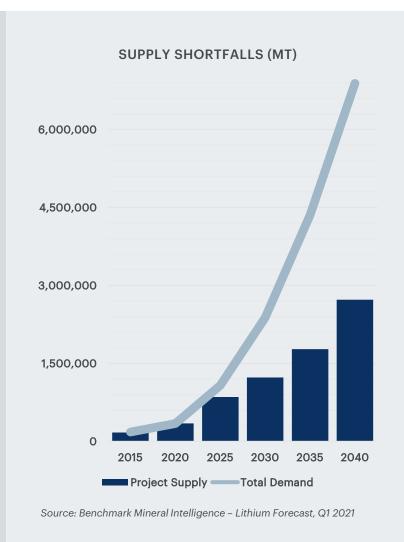


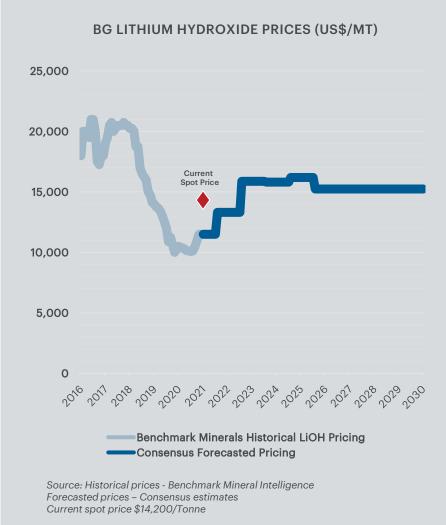


STRONG LITHIUM MARKET OUTLOOK









SUPPORTIVE INDUSTRY BACKDROP

Department of Energy Takes Immediate Action to Shore Up Battery Supply Chain, U.S. Competitiveness and Spur Job Creation

Ford plans to invest \$29B toward electric vehicles

Biden infrastructure plan proposes spending \$174B to boost America's EV market

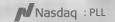
Energy Secretary Granholm says U.S. needs to GM Aims to Go A price, \$250.

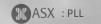
GM Aims to Go All Electric by 2035

Biden Aims To Jolt Lagging Supply Chains

EVs Shifting into Overdrive: can commodity supply keep pace?

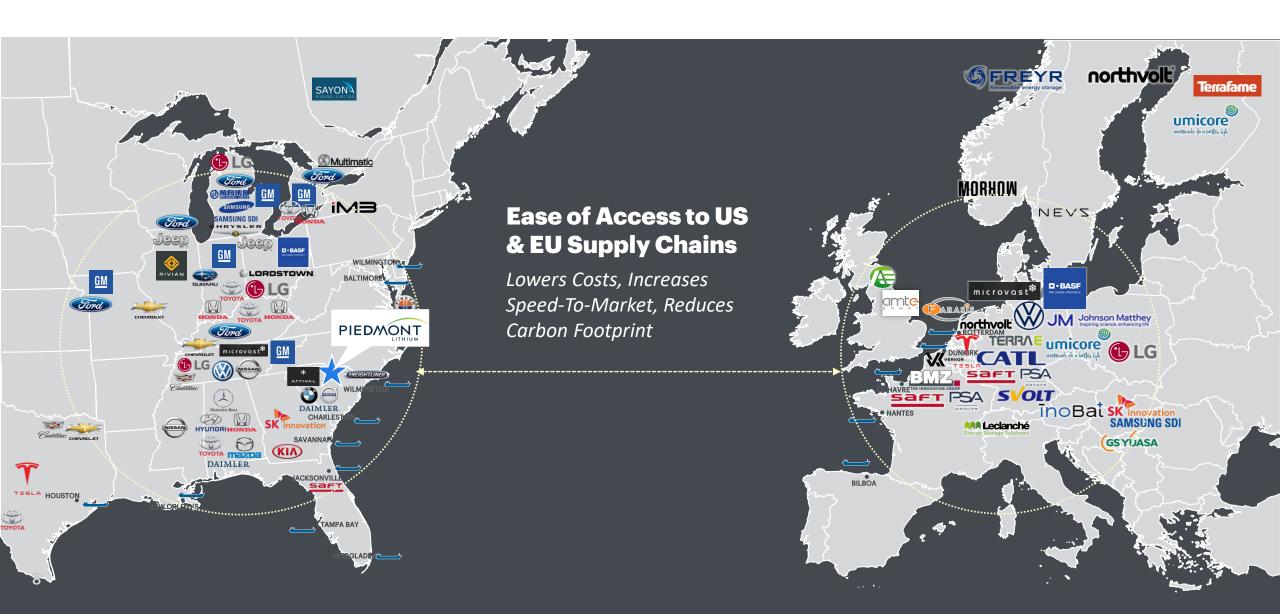
Volkswagen to 'get actively involved in the raw materials business'





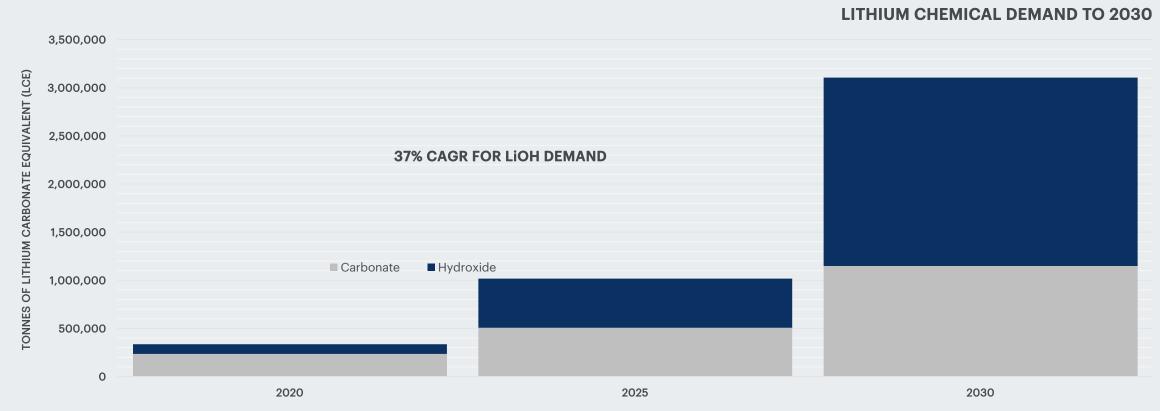


ELECTRIFICATION DEMANDS REGIONALIZATION

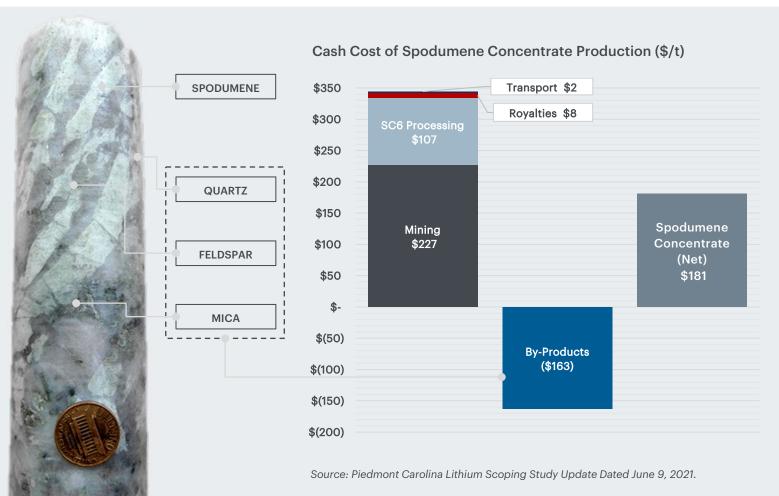


THE RIGHT LITHIUM MATERIALS

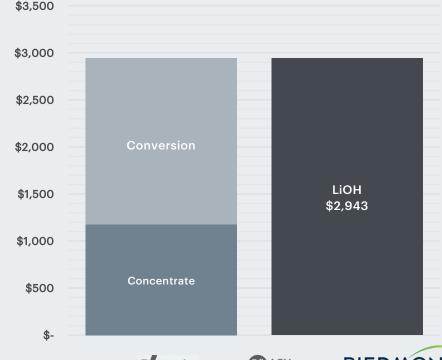
LIOH TAKING MARKET SHARE



BY-PRODUCTS OFFER IMPORTANT CREDITS TO OPERATING COSTS



LiOH Integrated Project Production Cash Operating Costs - Life of project (\$/t) including Royalties

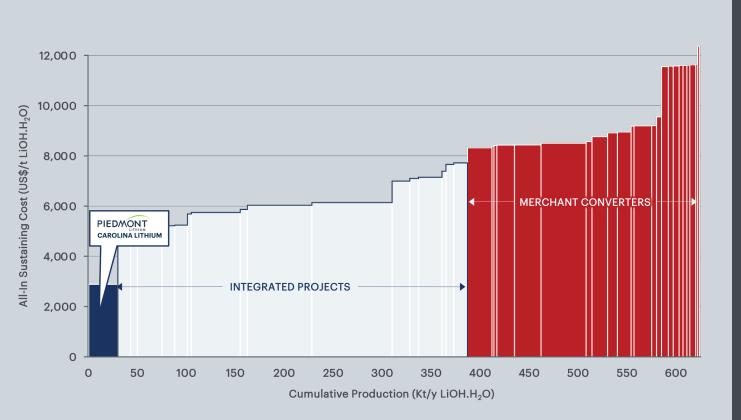


Nasdaq : PLL





LOCATION AND INTEGRATION DRIVE COST ADVANTAGES



PIEDMONT VS. AUSTRALIAN PRODUCERS

		*	PLL
	North Carolina	Western Australia	PLL Advantage Per LiOH Tonne
Personnel (US\$/y avg.)	\$90,000	\$150,000	\$300
Electricity (kwh)	5.5c	17.0c	\$316
Natural Gas (Gi)	\$3.68	\$9.00	\$130
SC6 Transport (T)	\$2	\$71	\$483
LiOH Tailing Disposal (1)	\$0	\$50	\$350
State Royalties	0%	5%	\$225
By-product Credits (T)	\$163	\$0	\$1,141

Source: Company estimates Assumes 7:1 SC6:LiOH ratio.

PROVEN LEADERS



Keith Phillips

Chief Executive Officer

30+ years advisory & financing experience with JPMorgan, Merrill Lynch & Goldman Sachs



Patrick Brindle

Chief Development Officer

20+ years project global development experience



Michael White

Chief Financial Officer

25+ years experience; most recently Chief Accounting Officer of Apergy Corporation



Bruce Czachor

Chief Legal Officer

Former partner of Shearman & Sterling



Brian Risinger

VP - Corporate Communications

25+ years IR & media; most recently with Sonoco



Malissa Gordon

Community & Government Relations

13+ years at Gaston County Economic Development



David Klanecky

Chief Operating Officer

25+ years lithium and chemical industry experience; former head of hard rock lithium hydroxide at Albemarle



Austin Devaney

Chief Marketing Officer

Former head of lithium sales for Albemarle



Lamont Leatherman

Chief Geologist

25+ years experience; discovered the Piedmont Lithium Project



Binh Meador

Senior Project Manager - Chemical Ops

20+ years chemical engineering with Fluor



Jim Nottingham

Senior Project Manager - Concentrate Ops

30+ years mining construction & concentrator operations



Pratt Ray

Production Manager - Chemical Ops

30+ years experience in lithium chemical production at Livent



David Buckley

Advisor - Process Engineering

25+ years lithium conversion; ex-Livent and Albemarle



PRIM=RO

Metso:Outotec



SGS

FDS



WHY PIEDMONT?

The Industry's Premier Lithium Development Company

Large Market with High Growth	 Total Addressable Market for lithium exceeds \$50 billion for EV applications by 2030¹ EV penetration expected to grow 10x from ~4% in 2020 to over ~40% by 2030 Grid storage market potentially larger than EVs in the long term
The Right Lithium Materials	 Production of lithium hydroxide ("LiOH") from spodumene ("SC6") LiOH required in the long-range batteries needed by major OEMs Spodumene is the preferred feedstock for cost, sustainability and scalability
Ideal Locations	 North Carolina offers exceptional infrastructure, talent and low operating costs Sayona investment in Quebec capitalizes on low-cost, sustainable hydroelectricity 83% of the world's lithium hydroxide currently produced in China
Exceptional Scale and Economics	 Strategy to be the USA's #1 lithium hydroxide producer One of North America's largest spodumene resources; scalable via 3rd party spodumene supply Low operating costs driven by location, low power and transport costs, and by-product sales
Sustainable Business Model	 The lowest carbon, water and land footprint among conventional lithium projects Massive reduction in transport distances from quarry to customer Fully-integrated LiOH manufacturing and by-product credits drive lowest cost position
Proven Leadership Team	 Operational team with large company and project mining and chemical industry experience Highly experienced people in all senior staff functions Senior leadership focused on driving shareholder value in a responsible way

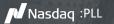








SCOPING UPDATE





ABN 50 002 664 495

LiOH

SCOPING UPDATE - SITE PLAN







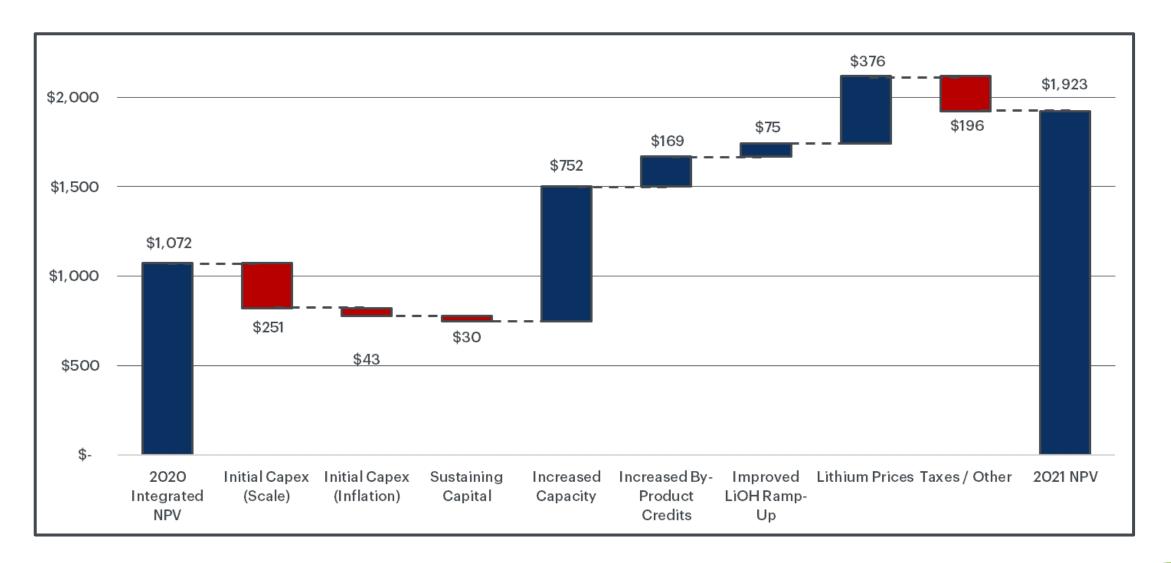
SCOPING - 2021 VS. 2020 - KEY OUTCOMES

Table 1: Comparative Outcomes of 2021 and 2020 Scoping Studies			
Outcomes	Unit	2021 Study	2020 Study
Project life	years	20	25
Steady-state average annual lithium hydroxide production	t/y	30,000	22,720
Steady-state average annual spodumene concentrate production	t/y	248,000	160,000
Steady-state average annual by-product production (all products)	t/y	714,000	224,000
Long term lithium hydroxide price	US\$/t	\$15,239	\$12,910
Long term spodumene concentrate price	US\$/t	\$762	\$564
Steady-state average cash cost of lithium hydroxide production	US\$/t	\$2,943	\$3,712
Steady-state average cost of spodumene concentrate production	US\$/t	\$181	\$201
Initial capital cost (including contingency)	US\$MM	\$838	\$545
Steady-state average annual EBITDA	US\$MM/y	\$401	\$218
After tax NPV @ 8% discount rate	US\$MM	\$1,923	\$1,071
After tax IRR	%	31%	26%
Payback from start of operations	years	2.92	3.23





SCOPING - 2021 VS. 2020 - NET PRESENT VALUE

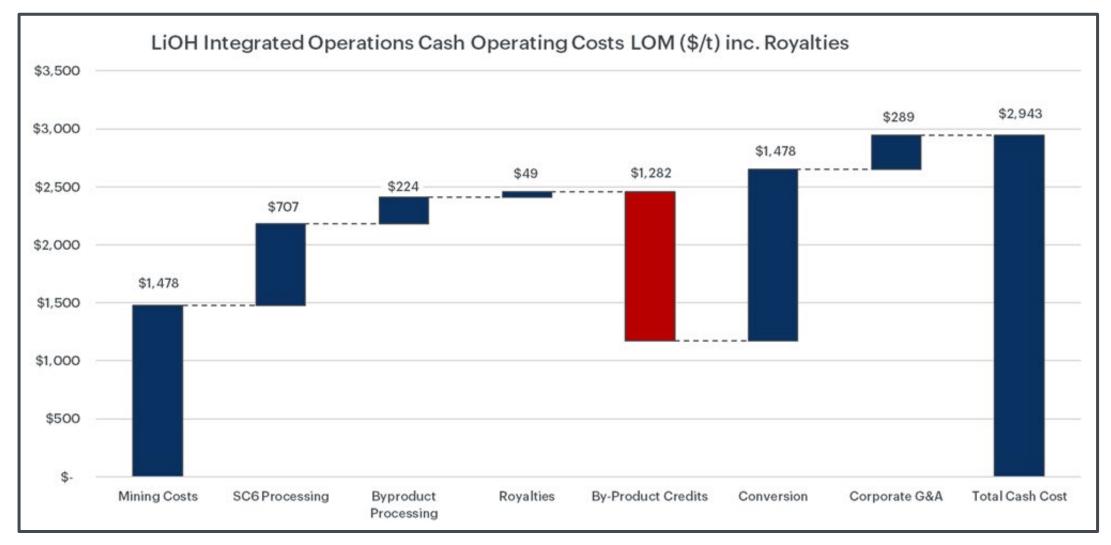








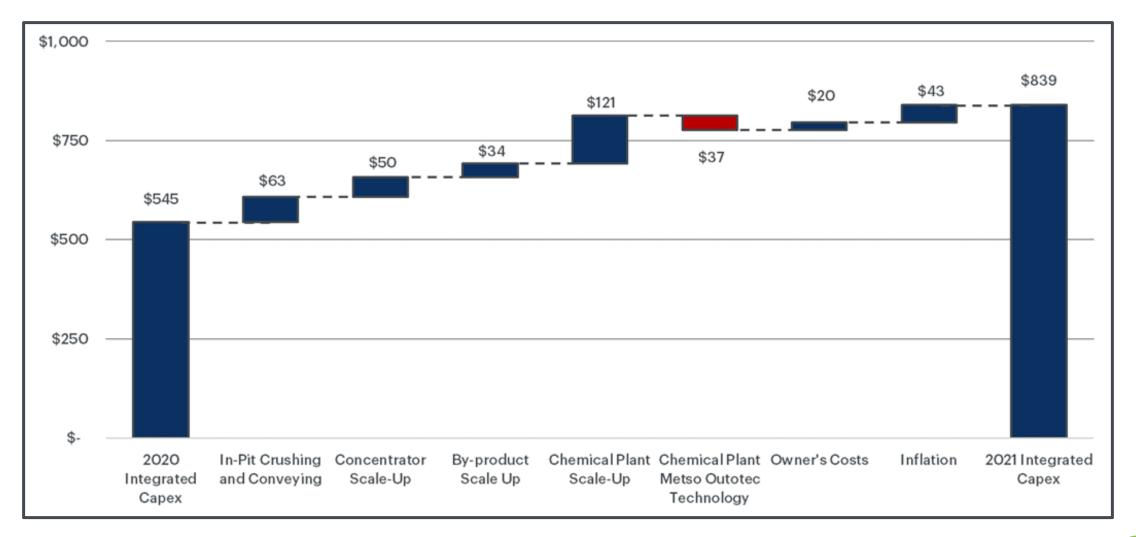
SCOPING - 2021 VS. 2020 - CASH COSTS







SCOPING - 2021 VS. 2020 - INITIAL CAPITAL









SCOPING UPDATE - INITIAL CAPITAL

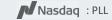
Table 1: Estimated Capital Costs	
Cost Center	Life-of-mine total (US\$ million)
Mine establishment and infrastructure direct costs	\$67.0
In-pit crushing and conveyors	\$52.1
Spodumene concentrator	\$115.2
By-products plant	\$39.0
Chemical plant	\$277.3
Project indirects	\$88.4
Total	\$639.0
Land acquisition	\$28.0
Other owner's costs	\$43.8
Total Initial Capital (Excluding Contingency)	\$710.8
Contingency	\$127.8
Total Development Capital	\$838.6
Deferred and sustaining capital	\$337.9
Working capital	\$48.3





SCOPING UPDATE - MILESTONES

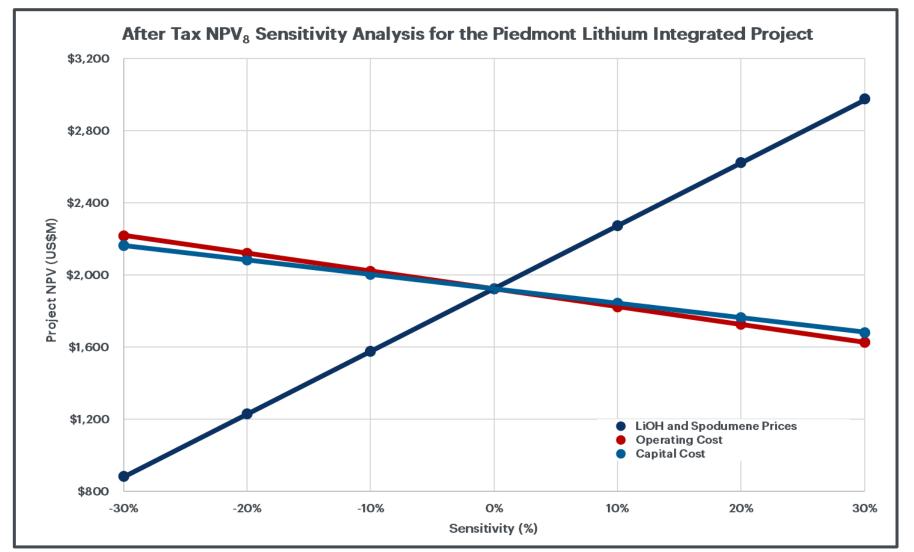
Table 1: Piedmont Carolina Lithium Project Milestone Schedule – Lithium Hydroxide Operations				
Milestone Description Milestone Date				
Complete Integrated DFS	September 2021			
Financial Investment Decision ("FID")	December 2021			
Start Detailed Design Engineering	January 2022			
Commence Long Lead Equipment Awards	January 2022			
Start Construction	April 2022			
Pre-Operational Testing Start	July 2023			
Mechanical Completion	October 2023			
Pre-Operational Testing Completion	November 2023			
Commissioning Start	December 2023			







SCOPING UPDATE - SENSITIVITY ANALYSIS

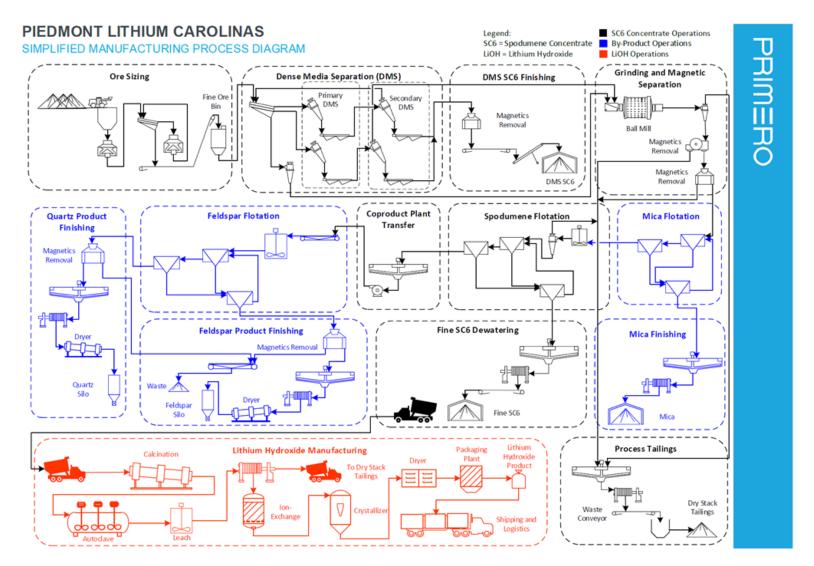








SCOPING UPDATE - FLOW SHEET







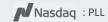
RESERVES AND RESOURCES

Global Ore Reserves & Mineral Resources – Piedmont Lithium and Sayona Mining – 100% Basis

Category	Piedmont Lithium ¹				Sayona Mining ²			
	Tonnes (Mt)	Grade (Li ₂ 0%)	Li ₂ O (kt)	LCE (kt)	Tonnes (Mt)	Grade (Li ₂ O%)	Li ₂ O (kt)	LCE (kt)
Ore Reserves								
Proven	-	-	-		6.1	0.99	60.4	149.4
Probable	-	-	-	-	6.0	1.02	61.2	151.3
Total Reserves	-	-	-	-	12.1	1.00	121.6	300.7
Mineral Resources								
Measured	-	-	-	-	6.6	1.02	67.1	165.9
Indicated	21.6	1.12	241.0	597.0	10.6	1.00	107.1	264.9
Inferred	17.6	1.03	181.0	449.0	3.8	0.98	36.8	91.0
Total MRE	39.2	1.09	422.0	1,046.0	20.9	1.01	211.0	521.8

Note 1: Piedmont Lithium Mineral Resources as of April 7, 2021

Note 2: Sayona Mining ASX announcement reporting Ore Reserves, and Mineral Resources dated September 24, 2018







DISCLAIMERS

Forward Looking Statements

This presentation contains forward-looking statements within the meaning of or as described in securities legislation in the United States and Australia, including statements regarding exploration and development activities; plans for Piedmont's mineral projects; projections of market demand and prices; statements about the timing and amount of reserve and resource declarations; 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 which may cause actual events, results, performance or achievements to be materially different from 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) Piedmont's properties may not contain expected reserves, (iii) risks and hazards inherent in the mining business (including risks inherent in developing 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, (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 and regulatory delays, (ix) uncertainties inherent in the estimation of lithium resources, (x) risks related to competition, and (xi) other uncertainties and risk factors set out in fillings made from time to time with the U.S. Securities and Exchange Commission and the Australian Securities Exchange, including Piedmont's most recent Annual Report on Form 20-F. 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.

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

The Project's Core Property Mineral Resource of 25.1Mt @ 1.09% Li2O comprises Indicated Mineral Resources of 12.5Mt @ 1.34% Li2O and Inferred Mineral Resources of 12.6Mt @ 1.04% Li2O. The Central Property Mineral Resource of 2.80Mt @ 1.34% Li2O comprises Indicated Mineral Resources of 1.41Mt @ 1.38% Li2O and 1.39Mt @ 1.29% Li2O.

Because Piedmont is listed on the Australian Securities Exchange, the information contained in this presentation has been prepared in accordance with the requirements of the securities laws in effect in Australia. Which differ from the requirements of U.S. securities laws. The terms "mineral resource", "measured mineral resource", "indicated mineral resource" and "inferred mineral resource" are Australian terms defined in accordance with the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the "JORC Code"). Comparable terms are now also defined by the U.S. Securities and Exchange Commission ("SEC") in its newly adopted Modernization of Property Disclosures for Mining Registrants as promogulated 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 and S-K 1300 standards, documentation is ongoing with respect to the S-K 1300 Technical Report Summary template to formally categorize Piedmont's mineral holdings as both JORC and S-K 1300 compatible. While the competent persons responsible for this announcement do not foresee any challenges in categorizing the resources delineated in this announcement as S-K 1300 compliant, information contained herein that describes Piedmont's mineral deposits is 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.

Competent Persons Statements

The information in this presentation that relates to Exploration Results is based on, and fairly represents, information compiled or reviewed by Mr. Lamont Leatherman, a Competent Person who is a Registered Member of the 'Society for Mining, Metallurgy and Exploration', a 'Recognized Professional Organization' (RPO). Mr. Leatherman is an employee of the Company. Mr. Leatherman has sufficient experience that is relevant to the style of mineralization and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr. Leatherman consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information in this presentation that relates to lithium Mineral Resources is extracted from our announcement entitled "Piedmont Increases Lithium Resources by 40%" dated April 8, 2021. The information in this announcement that relates to by-product Mineral Resources is extracted from our announcement entitled "Piedmont Focused on Increased Sustainability with 40% Increase in Quartz, Feldspar, and Mica Mineral Resources" dated June 8, 2021. Both announcements are available to view on the Company 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 announcements; b) all material assumptions and technical parameters underpinning the Mineral Resources in the original announcements continue to apply and have not materially changed; and c) the form and context in which the Competent Person's findings are presented in this announcement have not been materially modified from the original announcements.

The information in this presentation that relates to Process Design, Capital Costs, and Operating Costs is based on, and fairly represents, information compiled or reviewed by Mr. Alexandre Roy, a Competent Person who is a Registered Member of 'Ordres des Ingenieurs du Quebec', a 'Recognized Professional Organization' (RPO). Mr. Roy is a full time employee of Primero Group. Mr. Roy has sufficient experience that is relevant to the style of mineralization and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Mineral Resources and Ore Reserves'. Mr. Roy consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

The information in this presentation that relates to Mining Engineering and Mining Schedule is based on information compiled by Mr. Chris Scott and reviewed by Dr. Steven Keim, both of whom are employees of Marshall Miller and Associates (MM&A). Dr. Keim takes overall responsibility as Competent Person for the portions of the work completed by MM&A. Dr. Steven Keim is a Competent Person who is a Registered Member of the 'Society for Mining, Metallurgy & Exploration Society', a 'Recognized Professional Organization' (RPO). Dr. Keim has sufficient experience, which is relevant to the style of mineral extraction under consideration, and to the activity he is undertaking, to qualify as Competent Person in terms of the JORC Code (2012 Edition). Dr. Keim has reviewed this document and consents to the inclusion in this report of the matters based on his information in the form and context within which it appears.

Nasdag : PLL ASX : PLL









LITHIUM - MADE IN THE USA

Powering America's Clean Energy Transition June 2021

Keith D. Phillips – President and CEO +1 973 809 0505 kphillips@piedmontlithium.com

Head Office | 32 N Main Street | Suite 100 | Belmont, NC 28012 | USA

Exploration Office | 5706 Dallas-Cherryville Hwy. 279 | Bessemer City | NC 28016 | USA

Australia Office | 28 The Esplanade | 9th Floor | Perth | WA 6000 | Australia

www.piedmontlithium.com



ARBN 647 286 360