

A Clean Energy Company

Corporate Presentation – February 2020



ASX: PLL NASDAQ: PLL

ABN 50 002 664 495



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Executive Summary

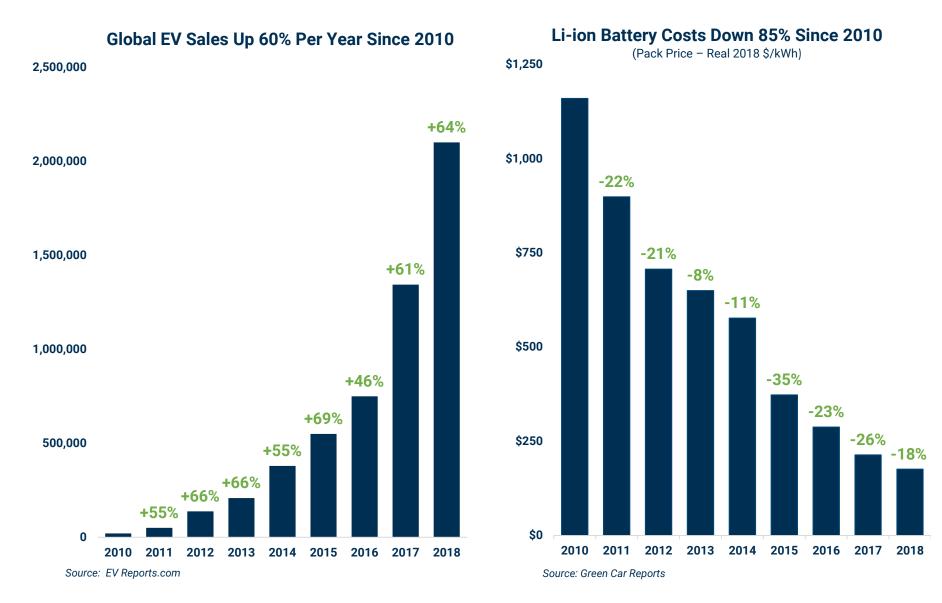


Why Piedmont Lithium?

| STRONG MARKET OUTLOOK | Wave of electric vehicles coming to market 36% annual growth projected for lithium hydroxide Large investments in US and Europe battery supply chain |
|---------------------------------|--|
| IDEAL PROJECT LOCATION | World-class Carolina Tin-Spodumene Belt ("TSB") 60+ years of lithium processing on TSB Abundant infrastructure and lithium talent pool |
| LOW OPERATING COSTS | Large local labor force – no camp costs Low power and transportation costs Low royalties and income taxes |
| POSITIVE ESG PROFILE | EVs reduce emissions by 67% vs. ICEs (Wood Mackenzie) Hard rock preferred by major OEMs for improved sustainability PLL supply chain potentially 98% shorter than current routes |
| UNIQUE STRATEGIC ASSET | USA's only conventional lithium project USA's only spodumene-to-hydroxide project Located in USA's 'Auto Alley' |
| SUBSTANTIAL VALUATION UPSIDE | Lithium equities recovering from 2-year lows Piedmont trading at ~5% of Project NPV Kidman deal implies huge upside for PLL |



Lithium Demand Driven by Growth in Electric Vehicle Sales





It's Not Just Tesla...





















...and It's Not Just Cars





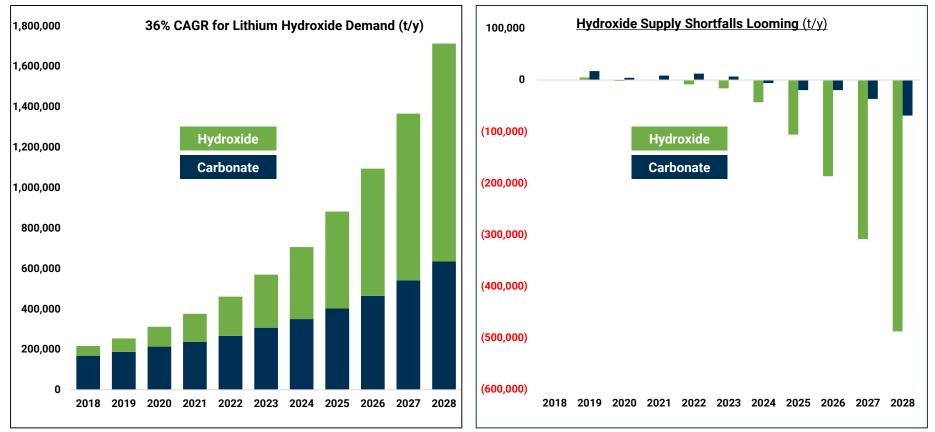






Hydroxide Taking Share and Supply Deficits are Looming

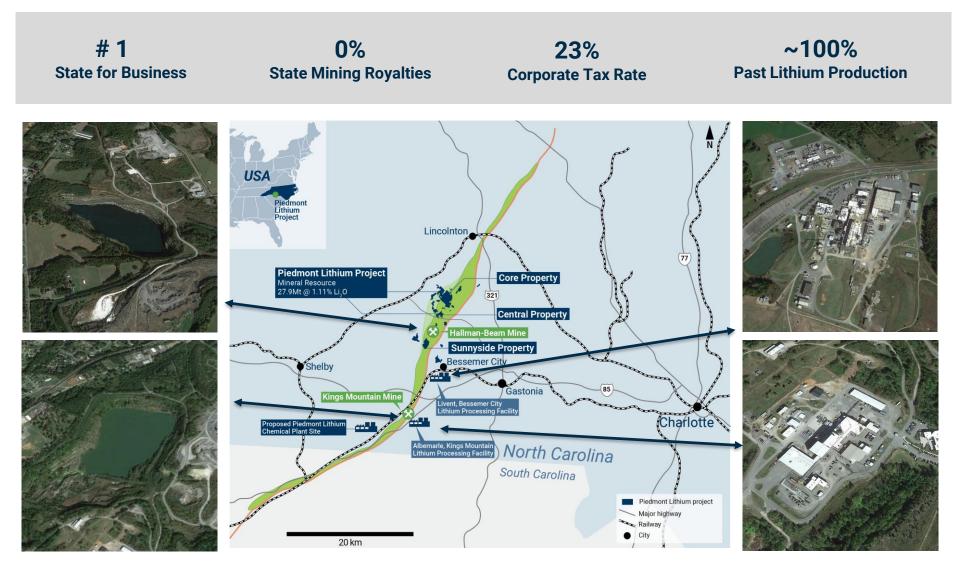
- Lithium hydroxide is required for the high-nickel cathode used in more energy-dense, longer-range batteries
- "Lithium extracted from mining for the future-relevant product 'lithium hydroxide' is commercially more attractive (there is one less production step as compared to salar production), more stable to extract, easier to scale and generally more sustainable." – Volkswagen – April 2019
- "BMW signs contract with Ganfeng for sustainable lithium from mines in Australia" BMW November 2019



Source: Rodney Hooper / RK Equity forecasts.



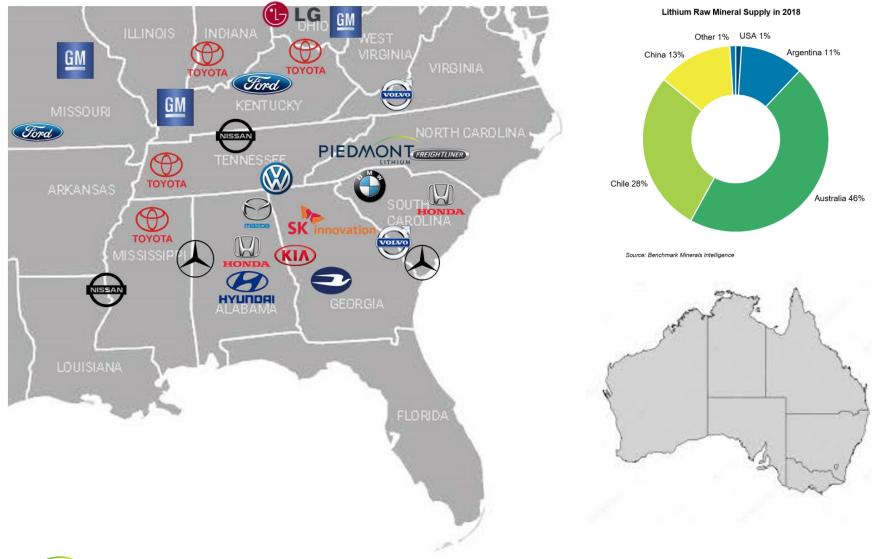
Piedmont Ideally Located in North Carolina...





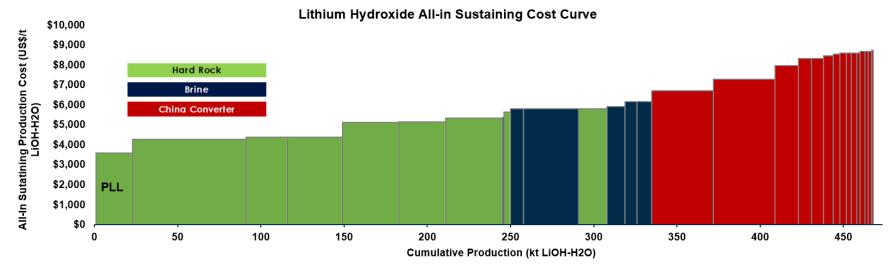
... in the Heart of 'Auto Alley'

Location drives lower costs and more sustainable supply chain





Location Drives Low Production Costs



Source - Roskill. AISC includes all direct and indirect operating costs including feedstock costs (internal AISC or external supply), refining, on-site G&S costs

| | | | * |
|----------------------|----------------|-------------------|--------------|
| | NORTH CAROLINA | WESTERN AUSTRALIA | CANADA |
| LABOR | \$42 / Hr | \$72 / Hr | \$96 / Hr |
| ELECTRICITY | 6c / kWh | 17c / kWh | 4c / kWh |
| DIESEL | \$0.65 / L | \$1.02 / L | \$0.91 / L |
| NATURAL GAS | \$4.00 / Gj | \$6.57 / Gj | \$12.54 / Gj |
| TRANSPORTATION | \$6 / T | \$46 / T | \$50 / T |
| GOVERNMENT ROYALTIES | 0% | 5% | 0% |
| EFFECTIVE TAX RATE | 23% | 30% | 33% |

Source: Public filings, Primero and Company estimates



Low Costs Underpin Strong Project Economics

Enlarged Mineral Resource Drives Improved Economics



| Updated Scoping Study Comparative Results | Unit | 2019 Study | 2018 Study | % Change |
|---|---------|----------------------------------|----------------------------------|----------|
| Mineral Resource Estimate | | 27.9Mt @ 1.11% Li ₂ 0 | 16.2Mt @ 1.12% Li ₂ 0 | 72% |
| Project Life | years | 25 | 13 | 92% |
| Life-of-Project Spodumene Concentrate Produced | kt | 3,810 | 1,960 | 94% |
| Life-of-Project Lithium Hydroxide Produced | kt | 489 | 216 | 126% |
| Average Steady State EBITDA | US\$M/y | \$298 | \$235 | 27% |
| After-Tax Net Present Value (NPV ₈) | US\$M | \$1,447 | \$888 | 63% |
| Internal Rate of Return (IRR) | % | 34 | 46 | -26% |
| Initial Capex – Integrated Project | US\$M | 512 | 470 | 9% |
| Lithium Hydroxide Cash Costs | US\$/t | 3,105 | 3,112 | - |

Source: Updated Scoping Study. Refer to the announcement dated August 7, 2019.



Highly-Experienced Leadership Team

Management Team

Keith Phillips

Managing Director & CEO

30+ Years Wall Street experience with JPMorgan, Merrill Lynch and Dahlman Rose

Taso Arima

Founder and Director

12+ years natural resource visionary executive; founder of multiple natural resource companies

Technical Consultants

Patrick Brindle

VP – **Project Management**

20+ years US and global engineering, procurement and construction experience

David Buckley

VP – Process Engineering

25+ years lithium extraction and conversion expert, ex-FMC and Albemarle

Lamont Leatherman

VP – Chief Geologist

25+ years as an exploration geologist, senior positions in BHP & Noranda in the Carolinas

Tim McKenna

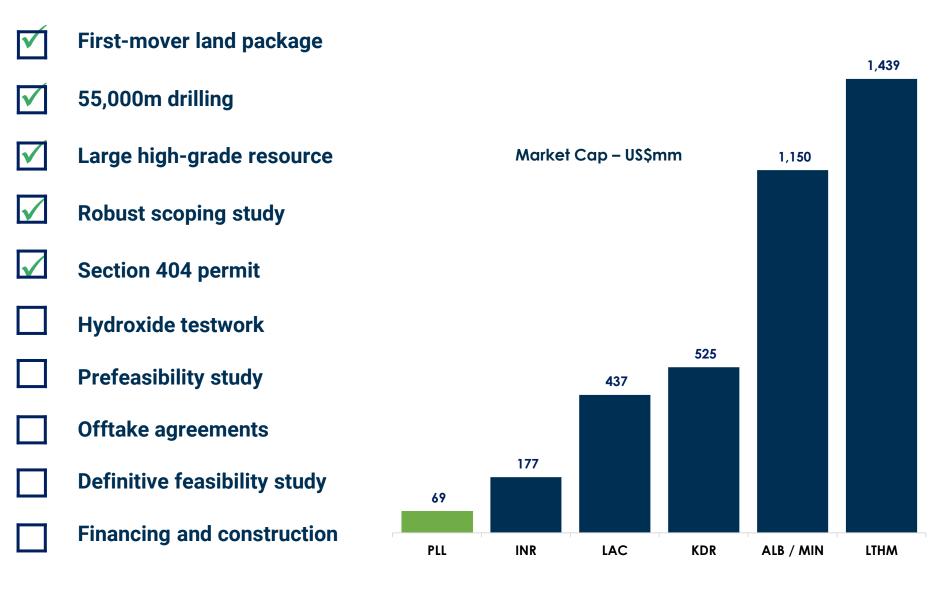
Advisor – Government Relations

30+ years government & investor relations, including with Rockwood Lithium





Hitting Milestones Should Drive Re-Rating in 2020





Corporate Snapshot

| Piedmont Lithium Limited | | | | | | |
|------------------------------------|--------------|-------------|--|--|--|--|
| | M ASX | Nasdaq | | | | |
| Shares / ADRs (1 ADR = 100 Shares) | 824.3 mm | 8.24 mm | | | | |
| Price (@ 2/7/20) | A\$0.13 | US\$8.25 | | | | |
| Market Cap (@ 2/7/20) | A\$107 mm | US\$69 mm | | | | |
| Cash (@ 12/31/19) | A\$17.1 mm | US\$11.4 mm | | | | |
| | | | | | | |

Key Shareholders

| Australian Super | 13.1% |
|------------------------|-------|
| Fidelity | 9.0% |
| BNY Mellon (ADRs) | 7.5% |
| Officers and Directors | 10.4% |

Board of Directors

| lan Middlemas | Australia | Chairman |
|-------------------|-----------|----------|
| Keith D. Phillips | USA | CEO |
| Anastasios Arima | USA | Director |
| Jeff Armstrong | USA | Director |
| Jorge Beristain | USA | Director |
| Levi Mochkin | Australia | Director |
| | | |



CANACCORD Genuity









Share Price Performance - Last 3 Months





Lithium Markets

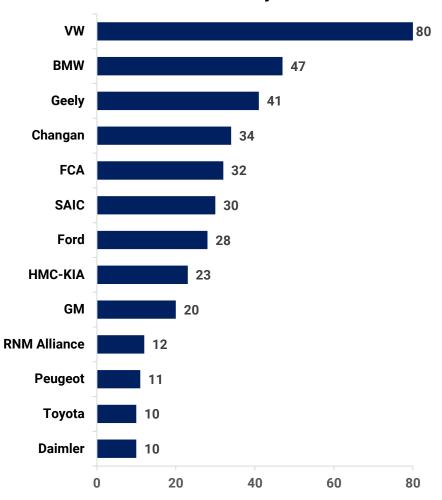


EV Mega-Trend is Building Momentum

• World-leader VW all-in on EVs

- Focus on LiOH from spodumene
 - "Mining is considered the future-proof solution, both <u>commercially</u> and in terms of <u>sustainability</u>
- EU CO₂ penalties a catalyst
 - US\$39B exposure in 2021
- Mass market vehicles coming
 - Ford to produce electric F-150 "before 2022"
 - VW ID.3 launching in 2020
- Technology leaders positioning
 - Google / Waymo
 - Apple / Titan
 - Amazon / Rivian
 - Sony introduced EV at CES

of EVs to be launched by 2025

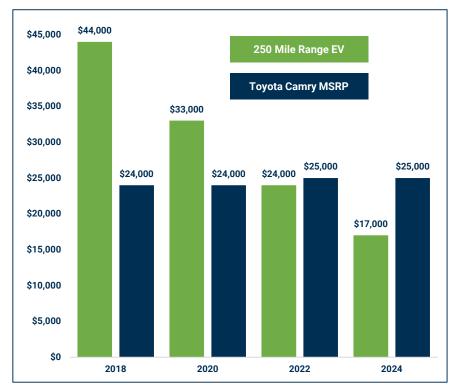


Source: Bloomberg New Energy Finance



Economics are the Key Driver of EV Demand

- EVs are superior cars they are smoother, quieter and faster
- EVs reduce greenhouse gas emissions by 67% vs. ICEs ("Wood Mackenzie")
- EVs offer lower 'total cost of ownership' ("TCO")
 - Far less expensive to fuel
 - Far less expensive to maintain
- EV:ICE purchase price parity is approaching; Tesla has already achieved this with the Model 3



Source: ARK Innovation – Big Ideas 2020

| | TESLA MODEL 3 | AUDI S4 |
|---------------------------------|--------------------|--------------------|
| CATEGORY | Luxury sport sedan | Luxury sport sedan |
| 0-60 MPH | 3.9 seconds | 4.4 seconds |
| RANGE | 322 miles | 420 miles |
| PURCHASE PRICE | \$50,990 | \$58,145 |
| 5-YEAR FUEL ¹ | \$2,549 | \$10,194 |
| 5-YEAR MAINTENANCE ¹ | \$3,018 | \$9,551 |
| 5-YEAR INSURANCE ¹ | \$4,430 | \$4,513 |
| TAX INCENTIVE | \$3,378 | \$0 |
| 5-YEAR TCO ² | \$57,609 | \$82,403 |

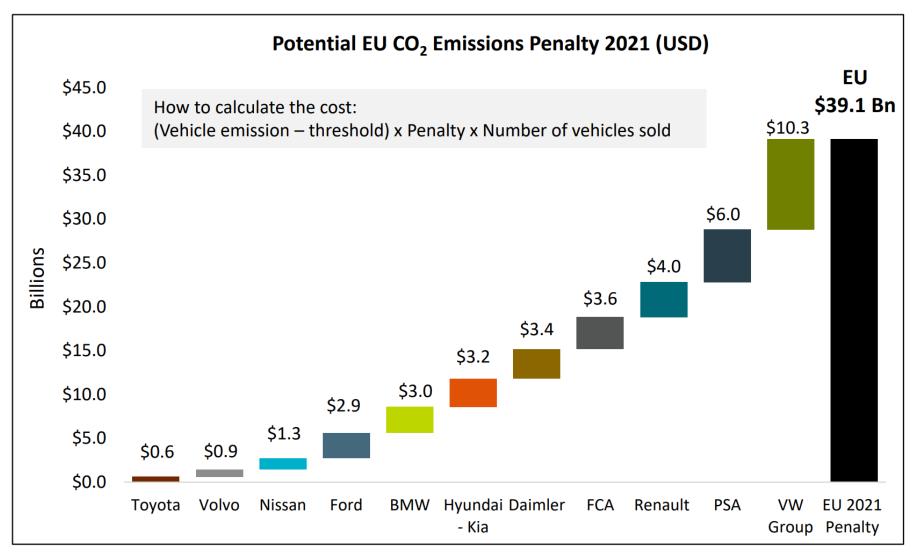
1. Source: Clean Technica and OEM websites

2. Reflects New Jersey waiver of 6.625% state sales tax



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EU CO₂ Emissions Penalties Spurring EV Development



Source: Orocobre

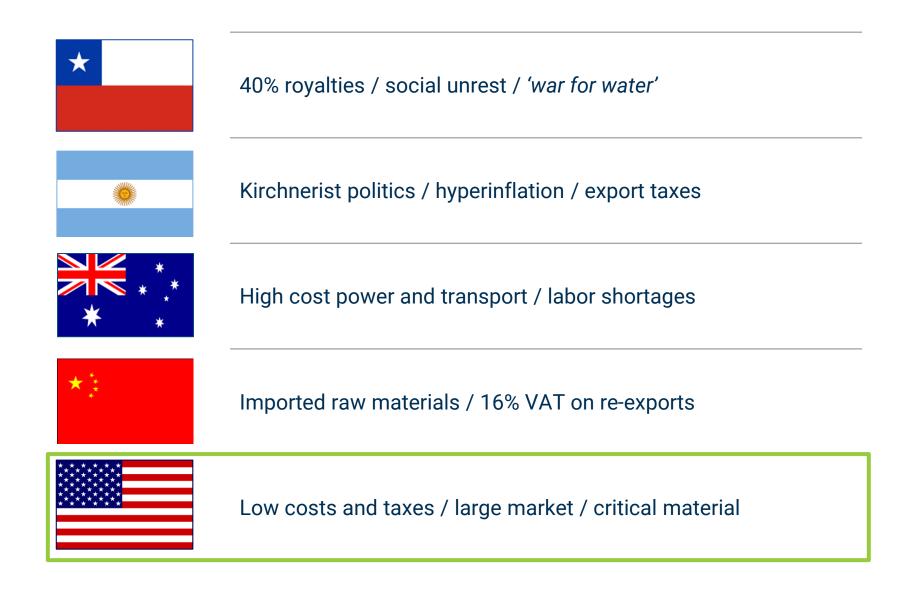


Supply Curtailments Support Positive Market Outlook

| ALBEMARLE® | Wodgina on care and maintenance; Kemerton delayed 9 months |
|------------|--|
| SQM | Mt. Holland deferred at least one year |
| | Stage 2 and 3 expansions deferred indefinitely |
| GALAXY | Mt. Cattlin mine shutdown; Sal de Vida downsized |
| RESOURCES | Bald Hill on care and maintenance |
| | La Corne on care and maintenance |
| | Kwinana Phase 2 deferred |
| | Construction halted pending financing for cost overruns |
| | |



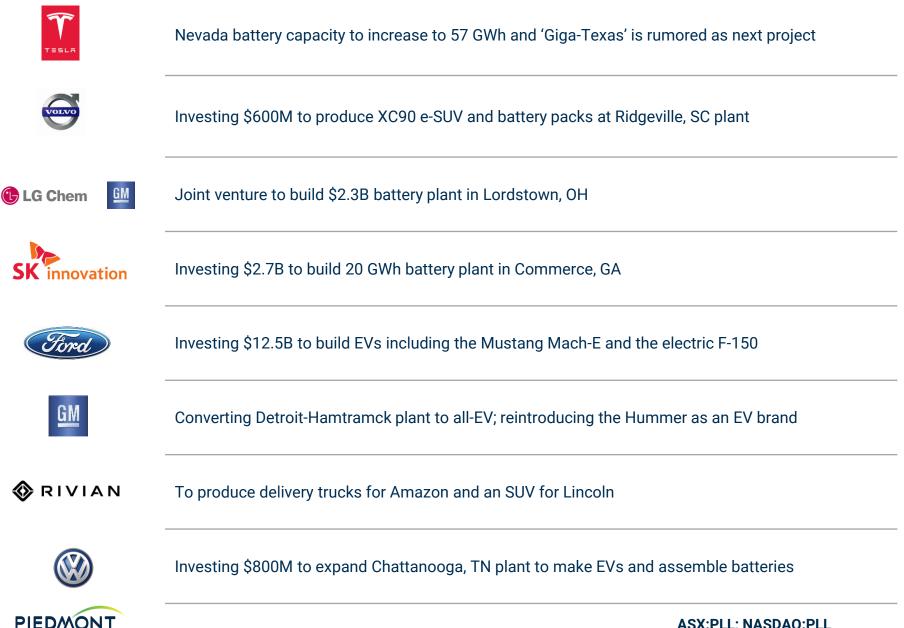
USA is Favorable Jurisdiction vs. Leading Producers





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Recent Developments in the US Electric Vehicle Space



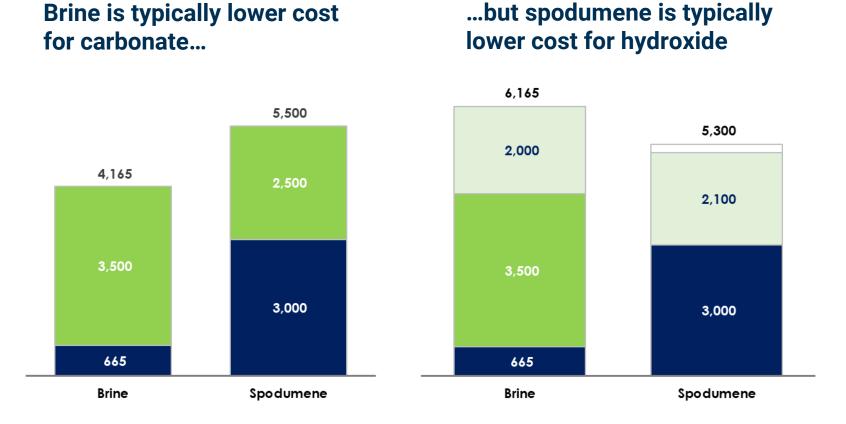
Piedmont Positioned as a Domestic Supplier to the US EV Sector

| | Raw Materials | Lithium Chemicals | Cathode | Batteries | Vehicles |
|--------|----------------------|-----------------------|-----------------------|---|--|
| USA | PIEDMONT | PIEDMOLITHUM | | Panasonic TISLE CE LG Chem Kinnovation CE Envision AESE | TESLA M Cord M C |
| Import | Livent Albemarle* | SQM EanfengLithium | SUMITOMO METAL MINING | | |



Spodumene's Hydroxide Cost Advantage

"Spodumene is ~15% more cost-effective to produce lithium hydroxide than salt brine" – McKinsey & Co.



Source: McKinsey & Co., costs represent indicative 2025 costs for typical South American brine operations and typical Western Australian spodumene operations.



Project Background Materials

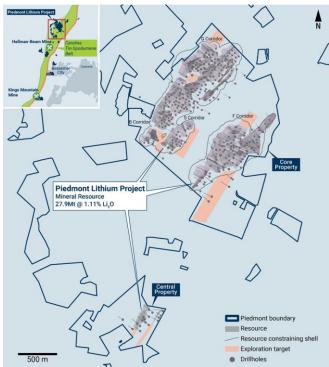


High-Grade Mineral Resource

One of North America's Largest Hard-Rock Lithium Resources

27.9 Mt @ 1.11% Li₂O

- 764,000 tonnes of contained LCE
- 100% of the lithium is attributable to spodumene mineralization
- Shallow open pits 74% of resource within 100m of surface and 97% within 150m
- Open along strike and at depth



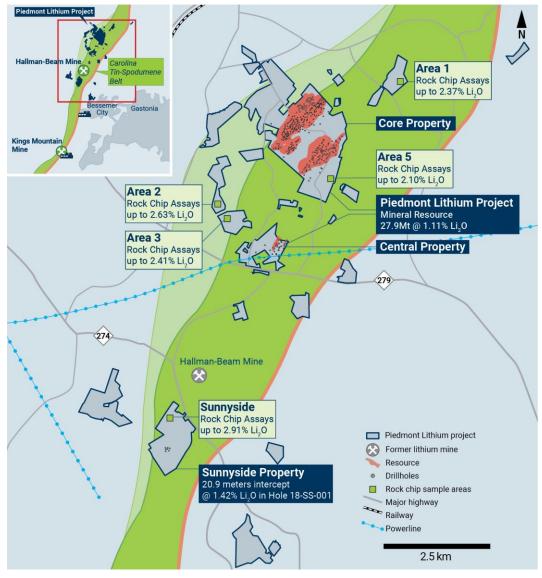
| Project Wide Mineral Resource Estimate for the Piedmont Lithium Project (0.4% cut-off) | | | | | | | | |
|--|----------------|--------------------------------|----------------|-------------------------------|----------------|-------------------------------|--------------------------|------------|
| Resource | Core p | Core property Central property | | Total | | | | |
| Category | Tonnes (Mt) | Grade (Li ₂ 0%) | Tonnes (Mt) | Grade (Li ₂ 0%) | Tonnes (Mt) | Grade (Li ₂ 0%) | Li ₂ 0 (t) | LCE (t) |
| Indicated | 12.5 | 1.13 | 1.41 | 1.38 | 13.9 | 1.16 | 161,000 | 398,000 |
| Inferred | 12.6 | 1.04 | 1.39 | 1.29 | 14.0 | 1.06 | 148,000 | 366,000 |
| Total | 25.1 | 1.09 | 2.80 | 1.34 | 27.9 | 1.11 | 309,000 | 764,000 |



Vast Exploration Upside

Large Areas of the Carolina Tin-Spodumene Belt Remain Unexplored

| Current Exploration Target | | | | |
|--|----------------------------|--|--|--|
| Core Property | | | | |
| Tonnes (Mt) | Grade (Li ₂ 0%) | | | |
| 4.0-4.5 | 1.0-1.2 | | | |
| Central | Central Property | | | |
| Tonnes (Mt) | Grade (Li ₂ 0%) | | | |
| 2.0-2.5 | 1.1-1.3 | | | |
| Το | tal | | | |
| Tonnes (Mt) Grade (Li ₂ 0%) | | | | |
| 6.0-7.0 | 1.0-1.3 | | | |



*The potential quantity and grade of the Exploration Target is conceptual in nature. There has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource.



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Unique "Spodumene-Only" Mineralogy

- XRD analysis confirms pure spodumene nature of Piedmont's ore body
- Absence of petalite and lepidolite in pegmatites expected to lead to high lithium recovery

"The first question an investor should ask a hard-rock lithium CEO is "how much of the lithium reports to spodumene?" – Jon Hykawy, PhD – President, Stormcrow Capital

| Average XRD Analysis Results from 46 Drill Core and Composite Samples of Piedmont Ore | | | | | | | | |
|---|---------------------|--|---|---|--|--------------------------------------|--|--|
| | | | Averag | je Wt. (%) of Mine | eral Types | | | |
| | | | Core Property | Central Property | Sunnyside Property | | | |
| Mineralogy | | Semi- quantitative Samples (13 Samples) | Quantitative Samples (19 Samples) | Composite Variability Samples (10 Samples) | Quantitative Samples (3 Samples) | Quantitative Sample (1 Sample) | | |
| | Spodumene | 17.8 | 19.9 | 16.6 | 15.9 | 14.8 | | |
| եր Br | Petalite | - | - | - | - | - | | |
| Lithium- bearing minerals | Lepidolite | - | - | - | - | - | | |
| ni pe Li | Zinnwaldite | - | - | - | - | - | | |
| Holmquistite | | - | - | 0.5 | - | - | | |
| Non-lithi | um bearing minerals | 82.2 | 80.1 | 82.9 | 84.1 | 85.2 | | |
| Total | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | | |



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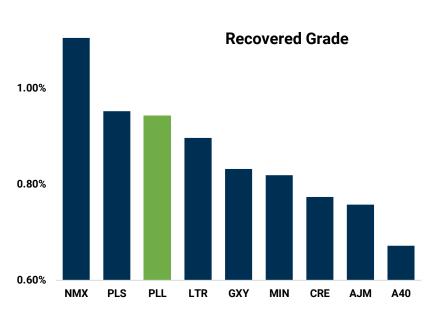
Strong Metallurgical Recoveries

Resource Grade of 1.11% Li₂0

+ Exceptional Metallurgical Recoveries

- Spodumene-only' mineralogy
- Abundant clean process water
- 50+ years of precedent on TSB
- Bench scale testwork results
- = Leading 'Recovered Grade'

Bench-Scale LiOH Testwork in Progress

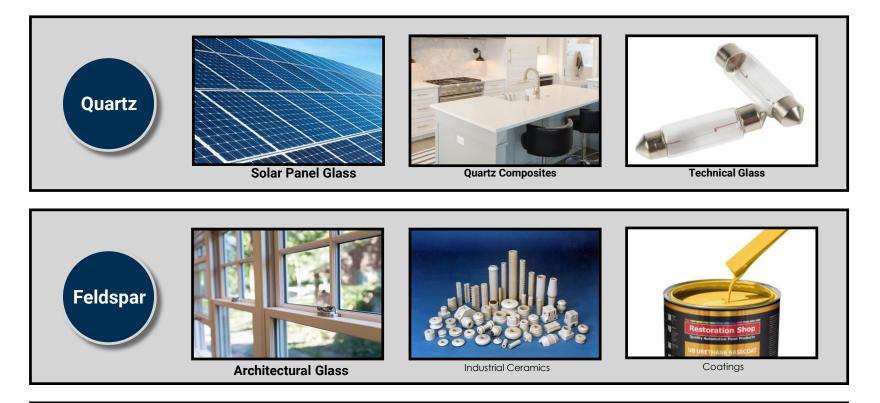


| Results of Dense Medium Separation + Locked Cycle Flotation Test Results | | | | | | | |
|--|--|---|------------------------------------|-----------------------|----------------------|--------------------------|---------|
| Sample | Feed Grade Li ₂ O (%) | Concentrate Grade Li ₂ 0 (%) | Fe ₂ O ₃ (%) | Na ₂ O (%) | K ₂ O (%) | CaO+ MgO + MnO (%) | P₂0₅(%) |
| Piedmont Composite Sample 1 | 1.11 | 6.35 | 0.93 | 0.63 | 0.49 | 0.96 | 0.32 |
| Australian Producer 1 | NR | 6.00 | 1.20 | NR | NR | NR | NR |
| Australian Producer 2 | NR | 5.90 | 1.50 | NR | NR | NR | NR |
| Australian Producer 3 | NR | 6.10 | 0.61 | 0.80 | 0.76 | 0.79 | 0.30 |

1.20%



By-Product Industrial Minerals Provide Strong Credit





PIEDMONT

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Forward Looking Statements

This presentation contains forward-looking statements within the meaning of securities legislation in Australia and the United States, including statements regarding exploration and development activities; plans for Piedmont's mineral projects; projections of market demand and lithium prices; statements about the timing and amount of resource declarations; and statements about the timing and ability to complete scoping studies and feasibility studies.

Such forward-looking statements involve known and unknown risks, uncertainties and other 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 factors include, among others, the risk that we will be unable to commercially extract mineral deposits, that our properties may not contain expected reserves, risks and hazards inherent in the mining business (including risks inherent in developing mining projects, environmental hazards, industrial accidents, weather or geologically related conditions), uncertainty about our ability to obtain required capital to execute our business plan, our ability to hire and retain required personnel, changes in the market prices of lithium, changes in technology or the development of substitute products, the uncertainties inherent in exploratory, developmental and production activities, including risks relating to permitting and regulatory delays, uncertainties inherent in the estimation of lithium resources, risks related to competition, as well as other uncertainties and risk factors set out in filings made from time to time with the Australian Stock Exchange and the U.S. Securities and Exchange Commission, including our most recent Form 20-F. Actual events, results, performance and achievements could vary significantly from the estimates presented in this presentation. Readers are cautioned not to put undue reliance on forward-looking statements. We disclaim any intent or obligation to update publicly such forward-looking statements, whether as a result of new information, future events or otherwise. Additionally, we undertake 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 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"). However, these terms are not defined in Industry Guide 7 ("SEC Industry Guide 7") under the U.S. Securities Act of 1933, as amended (the "U.S. Securities Act"), and are normally not permitted to be used in reports and filings with the U.S. Securities and Exchange Commission ("SEC"). Accordingly, information contained herein that describes Piedmont's mineral deposits may not be 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 closely the disclosure in Piedmont's Form 20-F, a copy of which may be obtained from Piedmont or from the EDGAR system on the SEC's website at http://www.sec.gov/.

Competent Persons Statements

The information in this presentation that relates to Exploration Results, Exploration Targets, Mineral Resources, Metallurgical Testwork Results, Process Design, Process Plant Capital Costs, and Process Plant Operating Costs, Mining Engineering and Mining Schedule was extracted from our ASX announcement dated August 7, 2019 entitled "Updated Scoping Study Extends Project Life and Enhances Exceptional Economics" which is available to view on the Company's website at www.piedmontlithium.com.website at <u>www.piedmontlithium.com</u>. Piedmont confirms that: a) it is not aware of any new information or data that materially affects the information included in the original ASX announcements; b) all material assumptions and technical parameters underpinning Mineral Resources, Exploration Targets, Production Targets, and related forecast financial information derived from Production Targets included in the original ASX announcements 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 ASX announcements.

Exploration Target

The Exploration Target is based on the actual results of Piedmont's previous drill programs. To determine potential tonnage and grade ranges at the deposit, Li₂O assay values and density values from drilling have been applied to the volume estimates. A density value of 2.71 g/cm³ is applied to derive tonnage values. Using this methodology an Exploration Target of between 4.0 to 4.5 million tonnes at a grade of between 1.10% and 1.20% Li₂O is approximated for the Core property and an Exploration Target of between 2.0 to 2.5 million tonnes at a grade of between 1.1% and 1.3% Li₂O is approximated for the Central property. The potential quantity and grade of this Exploration Target is conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource.



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A Clean Energy Company

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This presentation has been authorised for release by the Company's President & CEO, Keith D. Phillips

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