

# LITHIUM – MADE IN THE USA

Helping Secure America's Energy Independence

 Nasdaq:PLL

 ASX:PLL

ARBN 647 286 360

May 2022

**LiOH**

# PIEDMONT AT A GLANCE

	Domestic lithium to power America's energy transition
<b>LiOH</b>	Plans to develop 60,000tpy of LiOH production in the USA <sup>1</sup>
<b>SC6</b>	>500,000tpy of SC6 from assets in U.S., Canada and Ghana <sup>2</sup>
	Potential for near-term cash flow with 2023 NAL restart
	Industry-leading sustainability profile
	Proven leadership team
<b>\$</b>	Strong balance sheet to execute on 2022 catalysts

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)	17.9 mm	1,793.8 mm
Price (@ 5/12/22)	\$46.54	A\$0.69
Average Daily Trading Volume (30-day)	\$22 mm	A\$4 mm
Market Cap (@ 5/12/22)	\$835 mm	A\$1,238 mm
Cash (Est. 3/31/22)	\$166 mm	A\$241 mm
Equity Interests at Market (@ 5/12/22)	\$228 mm	A\$331 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

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ABN 50 002 664 495

**LiOH**

# SUPPORTIVE INDUSTRY BACKDROP

**Biden to invoke Defense Production Act for electric vehicle battery materials**

**Factbox: World faces shortage of lithium for electric vehicle batteries**

**General Motors plans to exclusively offer electric vehicles by 2035**

**FORD MOTOR CO. CEO CALLS FOR MORE DOMESTIC MINING**

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

**Rivian CEO: Raw Material Shortage Will Severely Limit EV Battery Production**

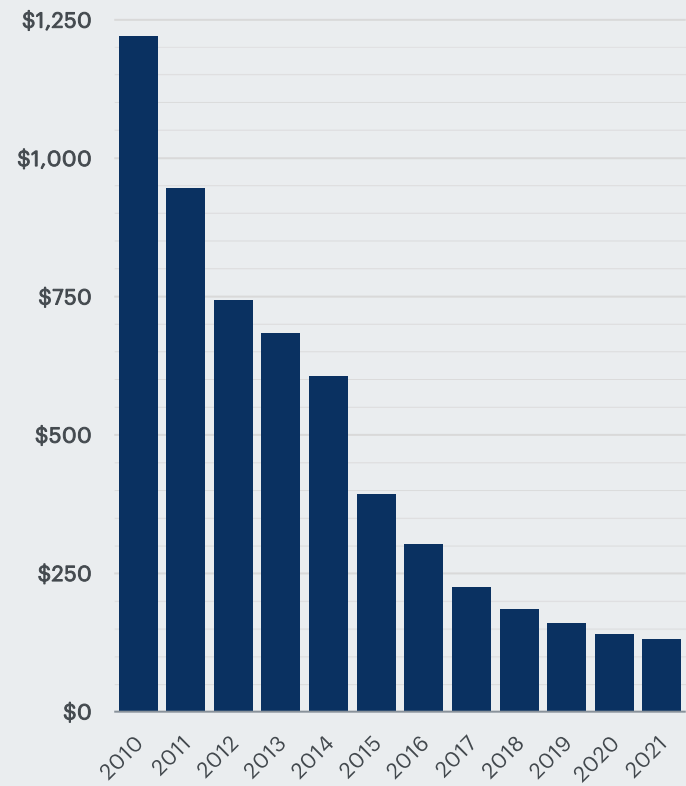
**Benchmark: Downstream EV supply chain is growing at 2x the upstream...something drastic needs to close the gap for the Energy Transition to exist at scale.**

**Elon Musk: "Do you like minting money? The Lithium business is for you."**



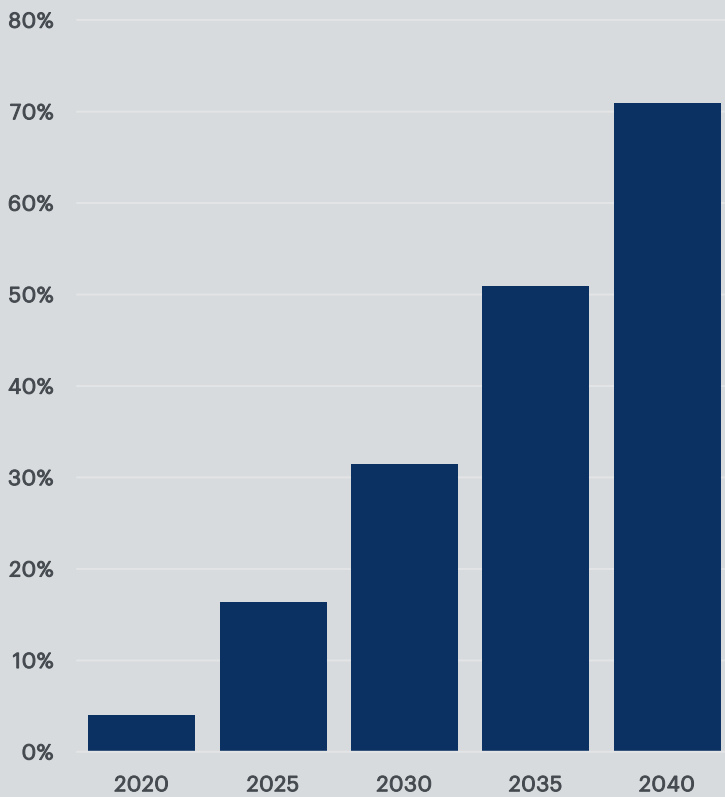
# LITHIUM MARKET TRENDS

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



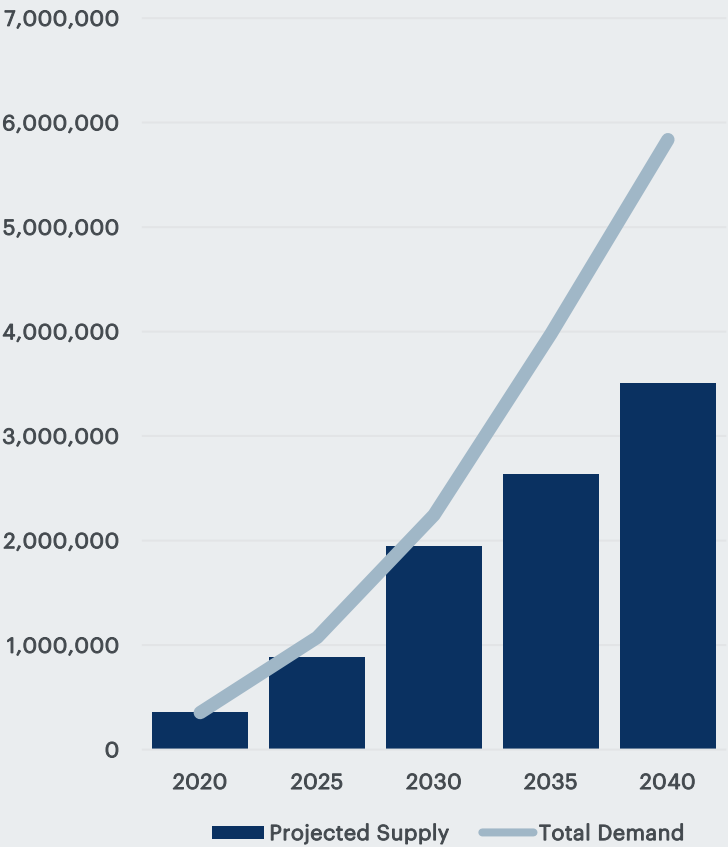
5 Source: BloombergNEF – 11/30/2021

**GLOBAL EV PENETRATION**



Source: Benchmark Mineral Intelligence – Lithium Forecast, Q4 2021

**GLOBAL LITHIUM SUPPLY SHORTFALLS EXPECTED**  
(LCE TONNES)



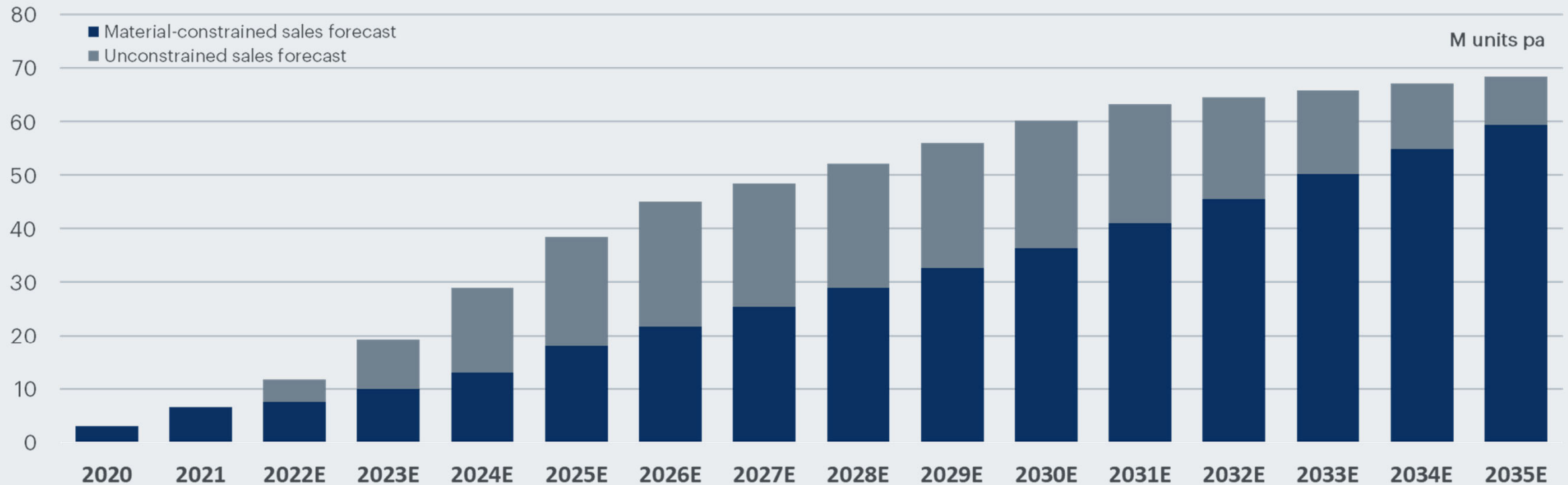
Source: Benchmark Mineral Intelligence – Lithium Forecast, Q4 2021



# EV SALES FORECAST

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

## MATERIAL-CONSTRAINED VS. UNCONSTRAINED EV SALES FORECAST

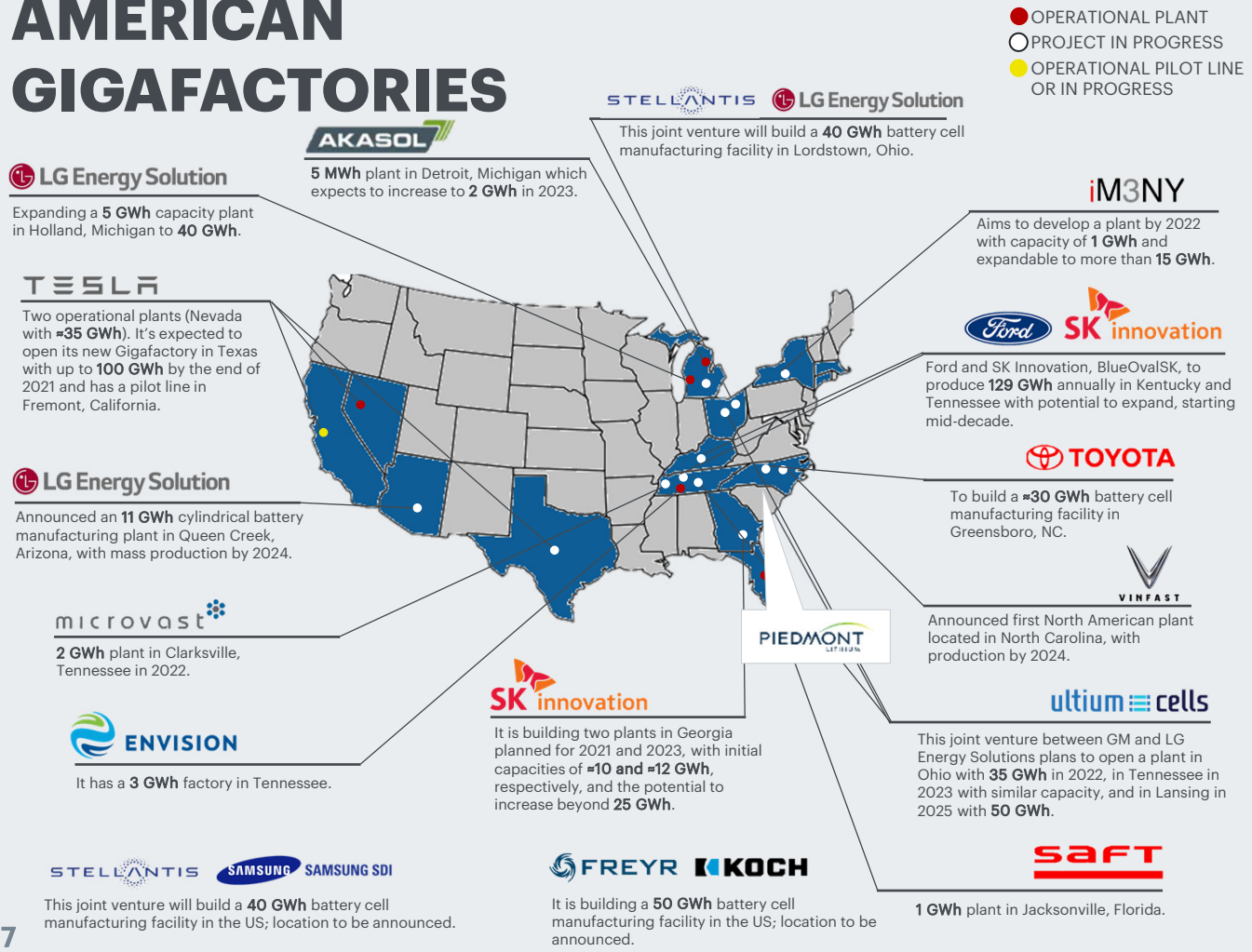


Source: Battery Material Review, Westbeck Capital estimates

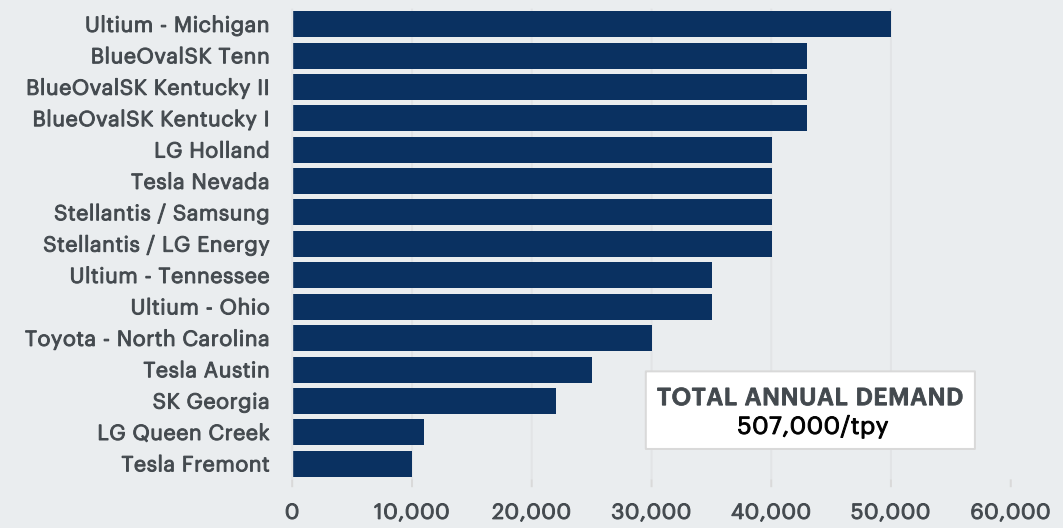
# DOMESTIC SHORTFALLS ANTICIPATED

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

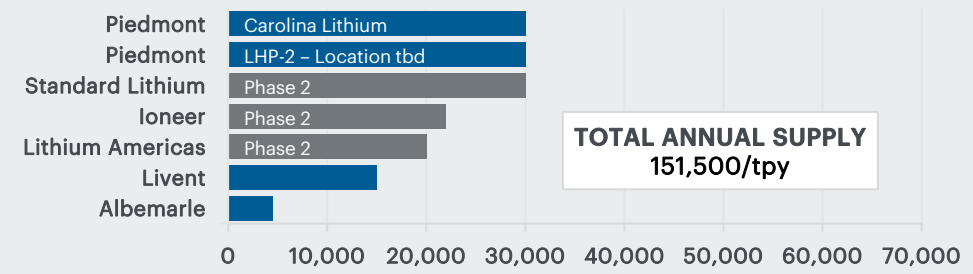
## AMERICAN GIGAFACTORIES



### LiOH REQUIRED BY SELECTED GIGA-FACTORIES BY 2025+



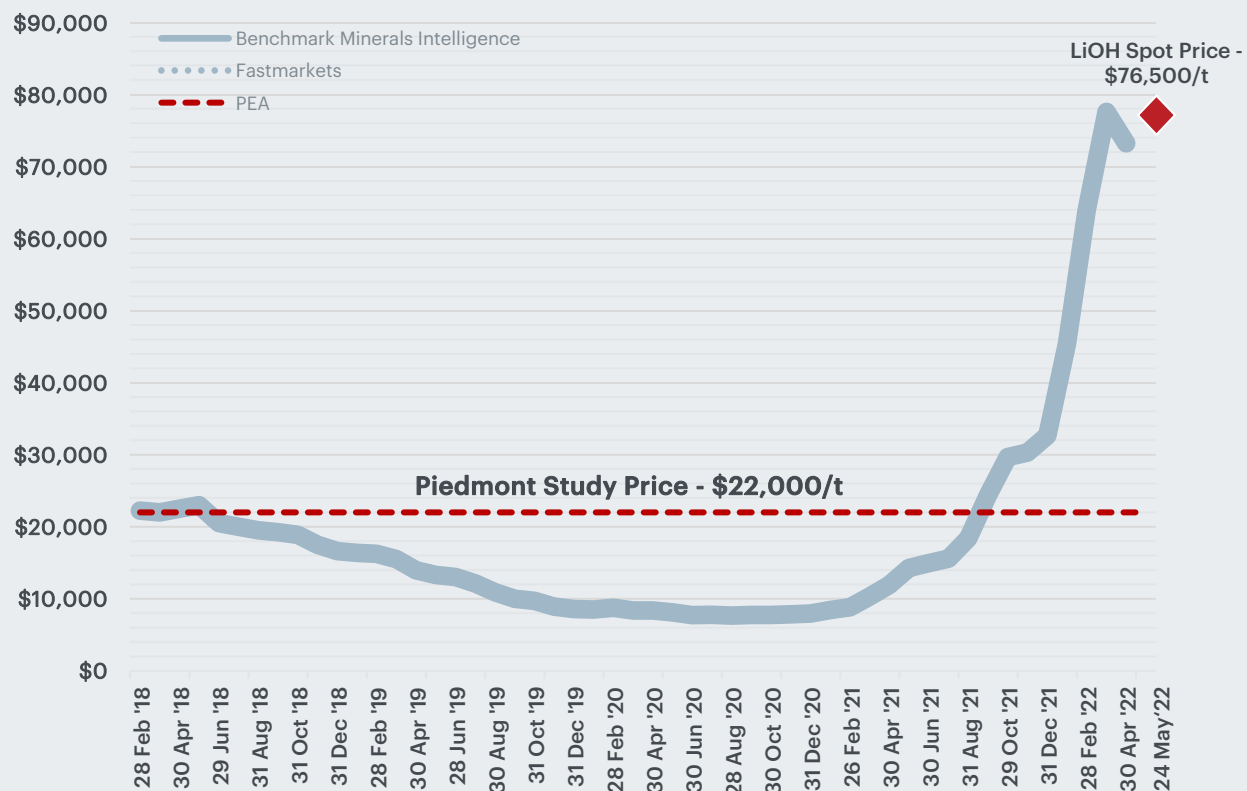
### SELECTED US LITHIUM HYDROXIDE SUPPLY BY 2025+



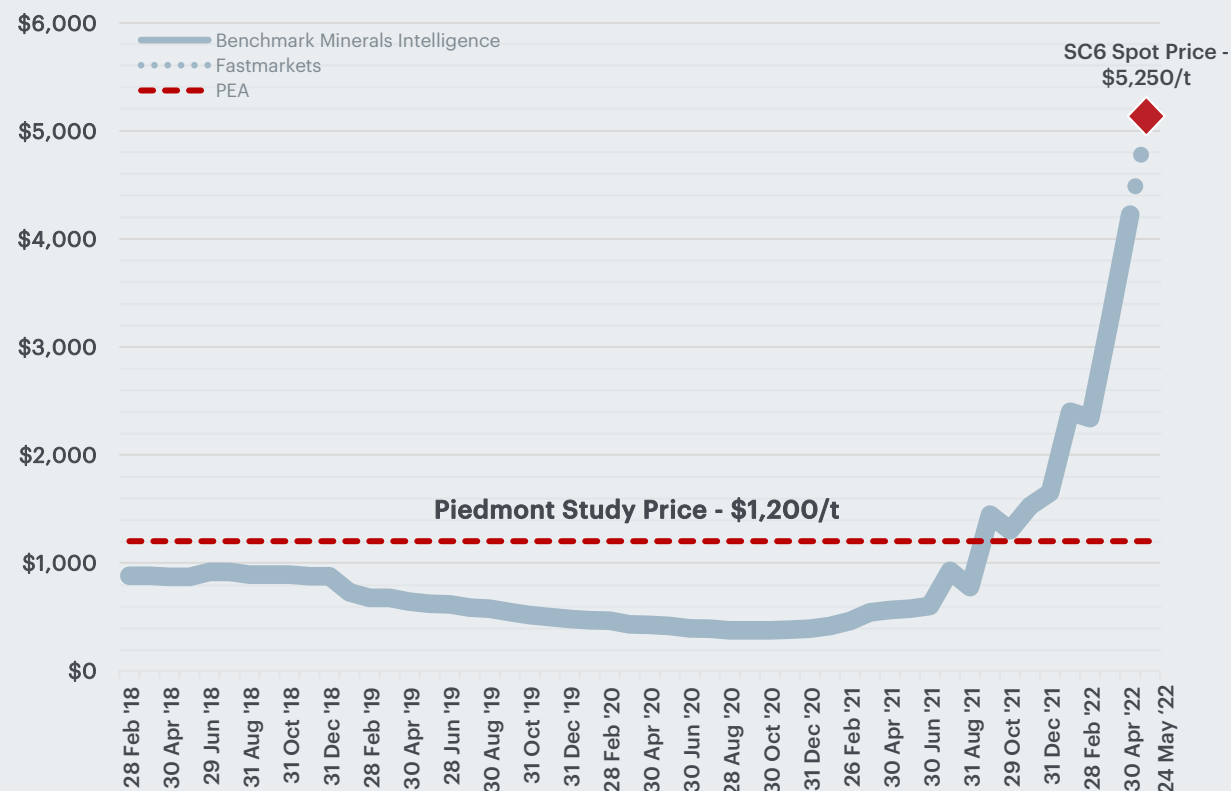
Source: Benchmark Mineral Intelligence – Lithium Forecast, Q3 2021, company announcements and Piedmont Lithium estimates

# SUPPLY IMBALANCE IS DRIVING PRICES HIGHER

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



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





# MASSIVE CAPITAL INVESTMENT IN THE ELECTRIFICATION OF TRANSPORTATION

EV Revolution Won't Happen Without Indispensable Raw Materials

## MATERIALS

PIEDMONT  
LITHIUM

ALBEMARLE

Livent

MP MATERIALS

## BATTERIES

FREYR  
Clean battery solutions

microvast

ROMEO  
POWER TECHNOLOGY

QuantumScape

ENOVIX

## COMPONENTS

AEVA

OUSTER

LUMINAR

Velodyne

## VEHICLES

TESLA

RIVIAN

FIAT

LORDSTOWN

CANOO

HYLIION

LION

ARCADIA

WORKHORSE

PROTERRA

XL Fleet

JOBY  
AVIATION

LUCID

Faraday Future

ELMS

## AFTER MARKET

blink

chargepoint

EVBOX

volta

EVgo

NUVE

## RECYCLING


Li-Cycle


REDWOOD  
MATERIALS

Recell  
ADVANCED  
BATTERY RECYCLING

BATTERY RESOURCE

# PIEDMONT OVERVIEW

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ABN 50 002 664 495

**LiOH**

# PROJECTS



## CAROLINA LITHIUM (100% OWNERSHIP<sup>1</sup>)

CL

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

## LiOH PLANT TWO (100% OWNERSHIP<sup>1</sup>)

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 run-rate EBITDA

## ABITIBI HUB (~35% ECONOMIC INTEREST<sup>2</sup>)

SYA

Project	Authier + NAL
Location	Abitibi Region, Quebec, Canada
Project Stage	Pre-Feasibility
Mineral Resources	119.1Mt @ 1.05% Li <sub>2</sub> O <sup>3</sup>
Production	168,000tpy SC6 <sup>4</sup>
Economics	\$571mm NPV; \$81mm EBITDA; \$69mm capex <sup>4</sup>

## ATLANTIC LITHIUM (EARN-IN OF 50% PROJECT INTEREST<sup>5</sup>)

ALL

Project	Ewoyaa
Location	Cape Coast, Ghana
Project Stage	Scoping + Exploration
Mineral Resources	30.1Mt @ 1.26% Li <sub>2</sub> O <sup>6</sup>
Production	300,000tpy SC6 (50% to PLL) <sup>7</sup>
Economics	\$789mm NPV; \$70mm capex <sup>7</sup>

<sup>1</sup> 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.

<sup>2</sup> Piedmont owns a 25.0% interest in Sayona Quebec and a 14.4% stake in Sayona Mining, resulting in an effective economic interest of ~35% in the Abitibi Lithium Hub.

<sup>3</sup> Refer to Sayona Mining ASX announcement dated March 1, 2022 for JORC Code Compliant MRE.

<sup>4</sup> Refer to Sayona Mining ASX announcement dated May 23, 2022 for results of NAL Pre-Feasibility Study.

<sup>5</sup> Piedmont can earn a 50% interest in Atlantic Lithium's Ghanaian lithium portfolio and owns 9.9% of Atlantic Lithium.

<sup>6</sup> Refer to Atlantic Lithium AIM announcement dated March 24, 2022 for JORC Code Compliant MRE.

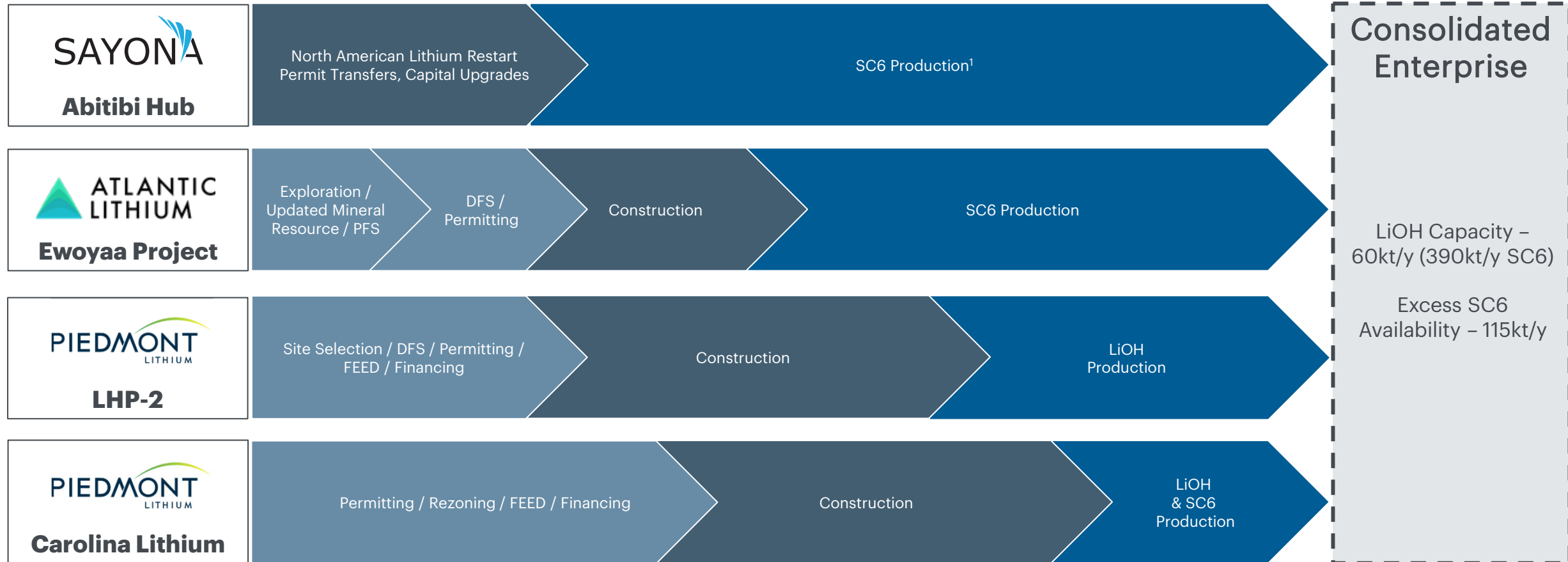
<sup>7</sup> Refer to Atlantic Lithium AIM announcement dated December 7, 2021.

# DEVELOPMENT PROGRESSION

		100% Project Basis			
		PLL Economic Interest	Annual Production	NPV <sup>2</sup>	Steady-State EBITDA <sup>2</sup>
	North American Lithium Restart Permit Transfers, Capital Upgrades SC6 Production <sup>1</sup>	~35%	113,000tpy SC6 <sup>3</sup>	\$586mm <sup>4</sup>	\$81mm <sup>4</sup>
	Exploration / Updated Mineral Resource / PFS DFS / Permitting Construction SC6 Production	50%	150,000tpy SC6 <sup>5</sup>	\$789mm <sup>6</sup>	\$178mm <sup>6</sup>
	Site Selection / DFS / Permitting / FEED / Financing Construction LiOH Production	100%	30,000tpy LiOH	\$2.2bb	\$346mm
	Permitting / Rezoning / FEED / Financing Construction LiOH & SC6 Production	100%	242,000tpy SC6 30,000tpy LiOH	\$2.8bb	\$592mm

- 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.
- Net present value and Steady-State EBITDA utilize LiOH price of \$22,000/t and SC6 price of \$1,200/t. Net present value assigns an 8% discount rate.
- Piedmont's offtake right at Abitibi is the greater of 50% of SC6 production or 113,000tpy.
- Refer to Sayona Mining ASX announcement dated May 23, 2022. Figures utilize \$1,242/t SC6 price.
- 150,000tpy is Piedmont's 50% offtake right according to the Project Target of 300,000tpy SC6 reported in Atlantic Lithium's Scoping Study dated December 7, 2021.
- Refer to Atlantic Lithium AIM announcement dated December 7, 2021. Figures utilize \$900/t SC6 price.
- The Lithium Hydroxide Plant-2 Project is the subject of a PEA issued on March 9, 2022. Its development remains subject to, among other things, a final site selection and financing. Results shown utilize pricing stated in footnote 2 and are company estimates.
- The Carolina Lithium Project is the subject of a BFS with a Technical Report Summary filed on January 31, 2022. The results shown utilize pricing stated in footnote 2 and are company estimates. EBITDA results are for steady-state during integrated operations during the first 10 years of operation.

# 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<sup>1</sup>



	PLL Interest	Capex	Net Present Value <sub>8</sub> (100% Project Basis)		Steady-State EBITDA (100% Project Basis)		Est. First Production
			Base Case <sup>2</sup>	Spot Case <sup>2</sup>	Base Case <sup>2</sup>	Spot Case <sup>2</sup>	
<b>CAROLINA LITHIUM<sup>3</sup></b> Gaston County, North Carolina, USA 242,000tpy SC6 30,000tpy LiOH	<b>100%</b>	<b>\$988mm</b>	<b>\$2.8bb</b>	<b>\$11.8bb</b>	<b>\$592mm</b>	<b>\$2.0bb</b>	<b>tbd</b>
<b>LITHIUM HYDROXIDE PLANT – 2<sup>4</sup></b> USA Location tbd 30,000tpy LiOH	<b>100%</b>	<b>\$572mm</b>	<b>\$2.2bb</b>	<b>\$8.6bb</b>	<b>\$346mm</b>	<b>\$1.2bb</b>	<b>tbd</b>
<b>EWOYAA<sup>5</sup></b> Cape Coast, Ghana 150,000tpy SC6 <sup>6</sup>	<b>50%<sup>7</sup></b>	<b>\$70mm</b>	<b>\$789mm</b>	<b>n/a</b>	<b>\$178mm</b>	<b>n/a</b>	<b>H1 2024</b>
<b>ABITIBI HUB<sup>8</sup></b> Quebec, Canada 113,000tpy SC6 <sup>9</sup>	<b>~35%<sup>10</sup></b>	<b>\$69mm</b>	<b>\$571mm</b>	<b>n/a</b>	<b>\$81mm</b>	<b>n/a</b>	<b>2023</b>



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.
- See Sayona Mining ASX announcement dated May 23, 2022 for NAL pre-feasibility announcement.
- Piedmont's offtake right at Abitibi is the greater of 50% of SC6 production or 113,000tpy.
- 35% interest based on Piedmont's approximately 14.4% equity interest in Sayona Mining and 25% ownership of Sayona Quebec

# ABITIBI HUB

NAL Restart Contemplated for H1 2023



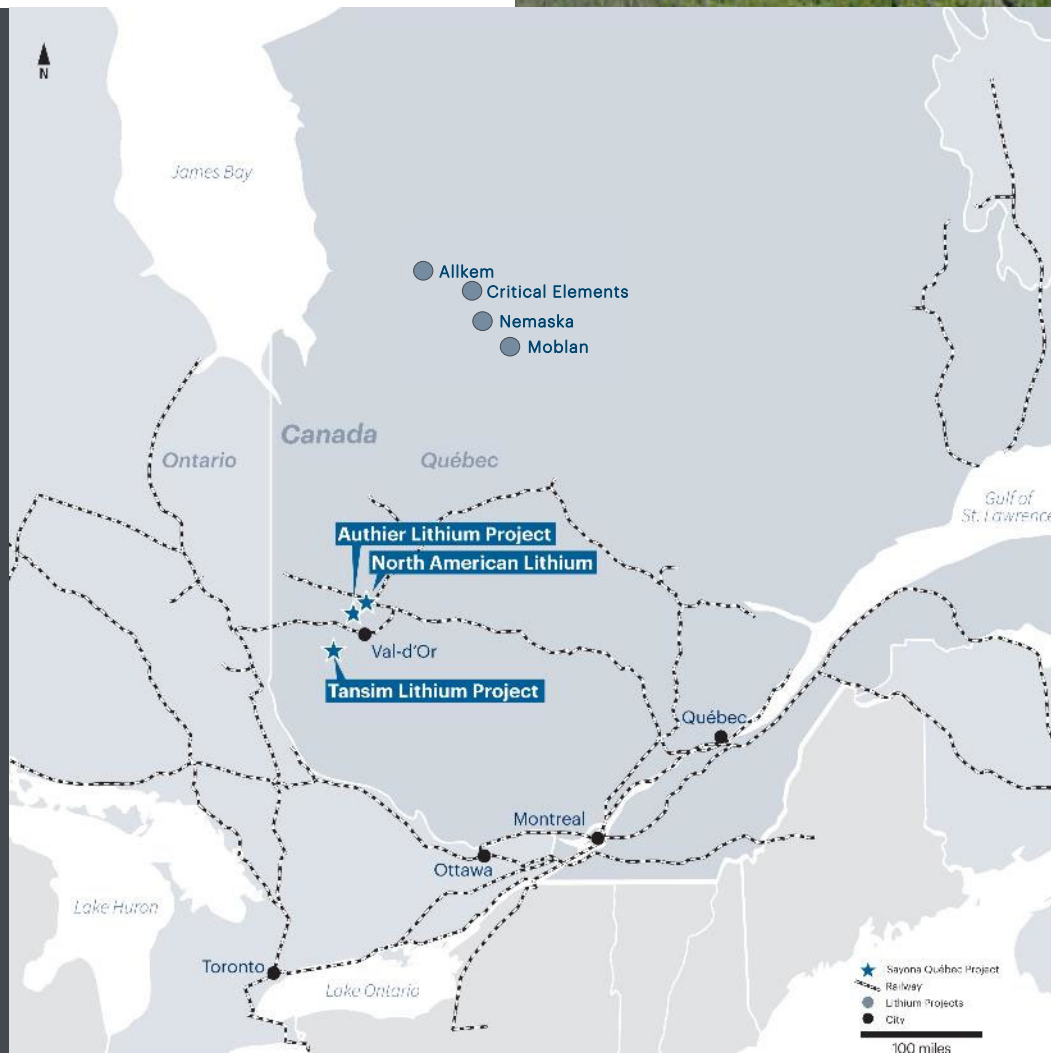
**SYA**

## HIGHLIGHTS

- Piedmont owns a 25% project interest in Sayona Quebec and a 14.4% equity interest in Sayona Mining
- 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
- Potential for near-term SC6 production in North America with attractive offtake economics
- Low-cost renewable hydroelectricity

## UPCOMING MILESTONES

- NAL restart decision
- Technical studies for integrated NAL/Authier targeted for H1 2022
- Evaluating LiOH production in Quebec



## FACT SHEET

Location	Québec
Project Stage	Pre-Feasibility
Business	Spodumene Concentrate
Resources	119.0Mt @ 1.05% Li <sub>2</sub> O <sup>1</sup>
Production	168,000tpy SC6 <sup>2</sup>
PLL Offtake	Greater of 50% of production or 113,000tpy <sup>3</sup>
Offtake Price	Price Floor: \$500/t Price Ceiling: \$900/t <sup>3</sup>
Production	2023
Capex	\$69mm <sup>2</sup>
Opex	\$590/t SC6 <sup>2</sup>
EBITDA	\$81mm <sup>2</sup>
After-tax NPV <sub>8</sub>	\$571mm <sup>2</sup>
After-tax IRR	139% <sup>2</sup>

1. 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.
2. See Sayona Mining ASX announcement dated May 23, 2022 for NAL pre-feasibility announcement.
3. Refer to Piedmont's ASX announcement dated January 11, 2021 for supply agreement terms.

# ATLANTIC LITHIUM

Atlantic Lithium Targeting First Production in H1 2024

ALL

## HIGHLIGHTS

- Piedmont owns 9.9% of Atlantic Lithium and can earn a 50% interest in ALL's Ghanaian lithium portfolio
- 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



## FACT SHEET

Location	Ghana
Project Stage	Exploration / Scoping
Business	Spodumene Concentrate
Resources	30.1Mt @ 1.26% Li <sub>2</sub> O <sup>1</sup>
Production	300,000tpy SC6 <sup>2</sup>
PLL Offtake	50% of annual production
DFS Timing	2022-2023
Production	2024-2025
Capex	\$70mm <sup>2</sup>
Opex	\$249/t SC6 <sup>2</sup>
After-tax NPV <sub>8</sub>	\$789mm <sup>2</sup>
After-tax IRR	194% <sup>2</sup>

<sup>1</sup> Refer to Atlantic Lithium AIM announcement dated March 24, 2022 for JORC Code Compliant MRE.

<sup>2</sup> Refer to Atlantic Lithium AIM announcement dated December 7, 2021.



# NO. 2 LIOH PLANT (“LHP-2”)

100% Owned by Piedmont Lithium

LHP-2

## 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 SHEET<sup>1</sup>

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 <sub>8</sub>	\$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

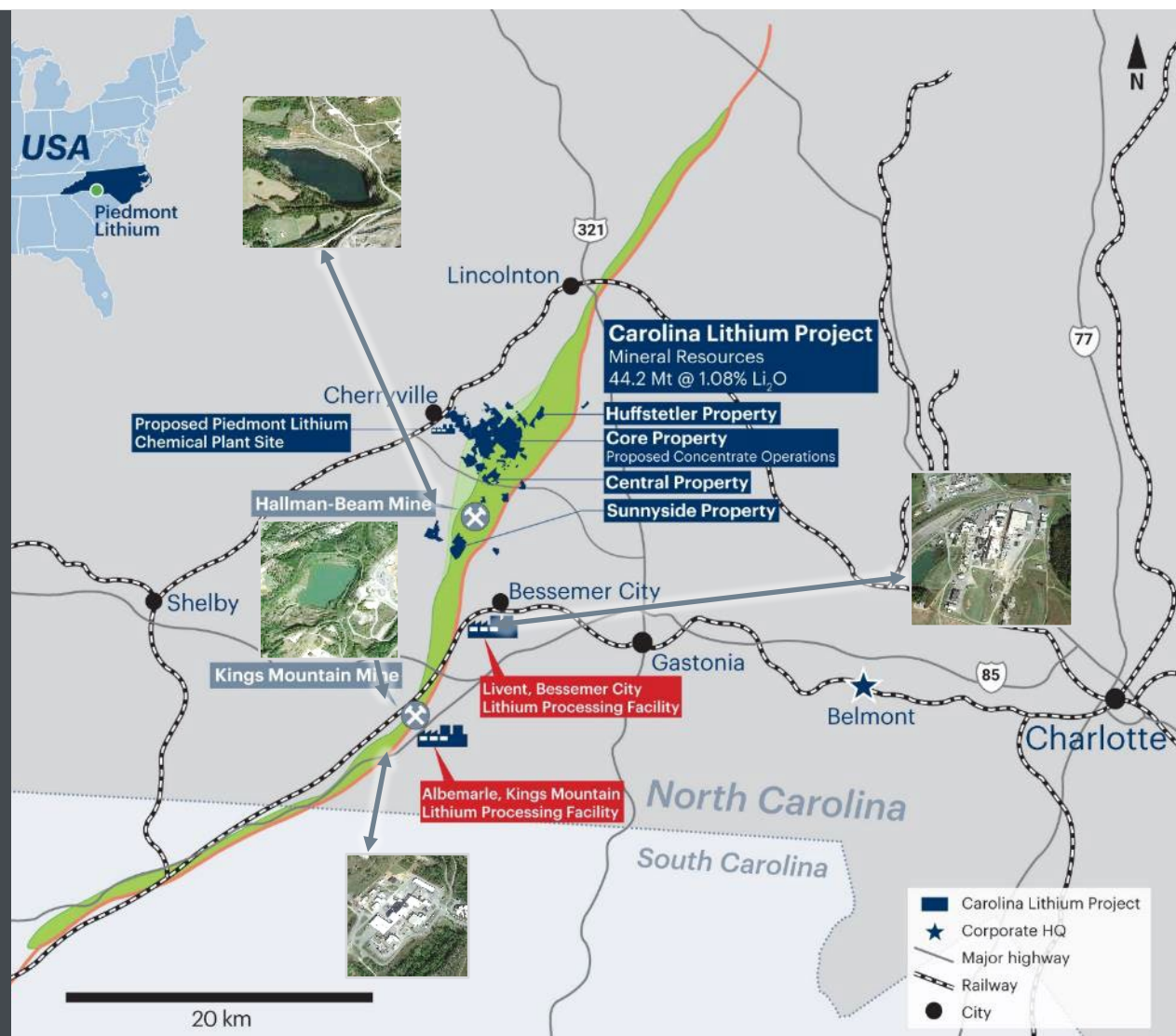
CL

## 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 SHEET<sup>1</sup>

Location	North Carolina, USA
Project Stage	Feasibility Study
Product	Lithium Hydroxide
Resources	44.2Mt @ 1.08% Li <sub>2</sub> 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 <sub>8</sub>	\$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.



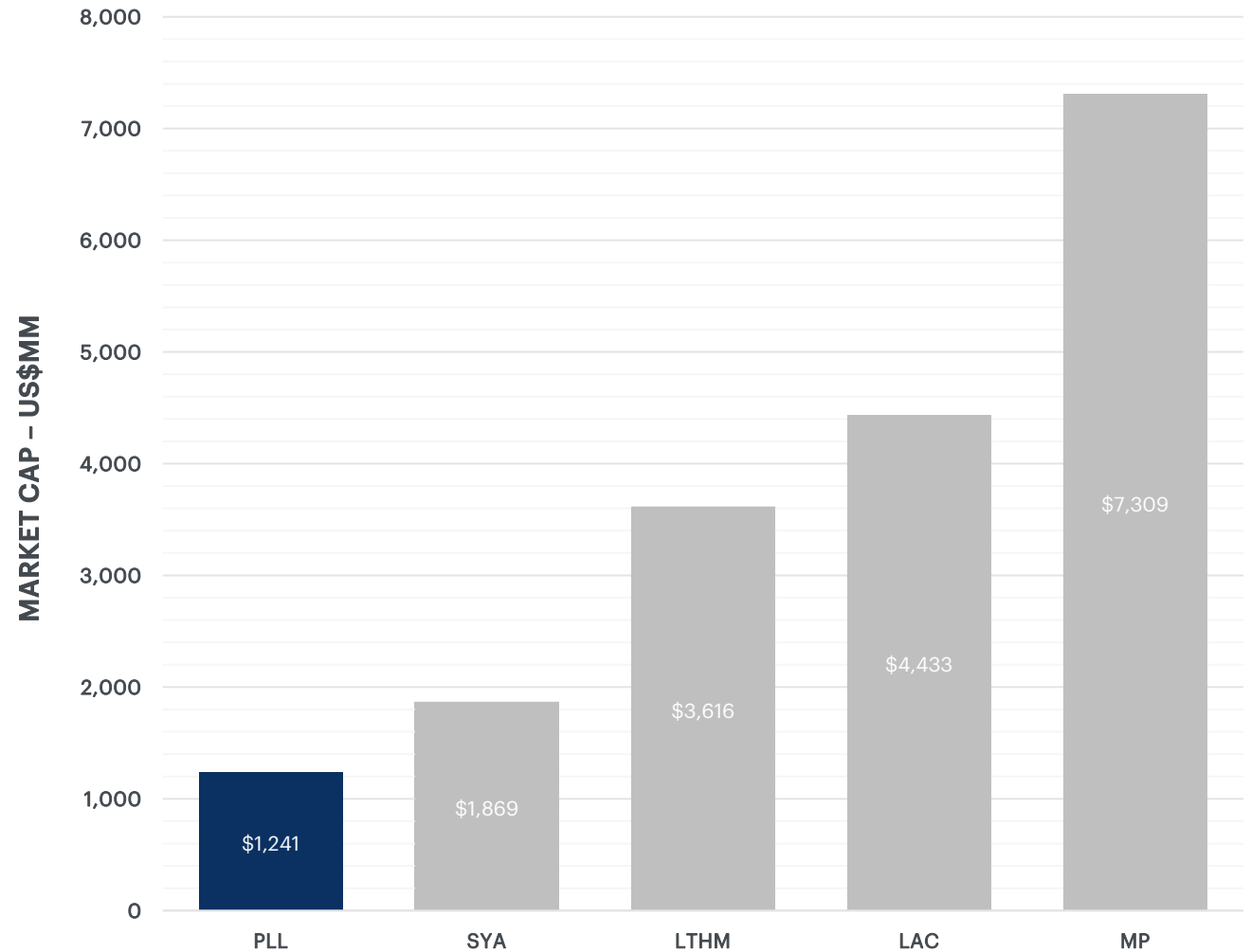
# CATALYSTS TO DRIVE SHAREHOLDER VALUE

## 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 April 22, 2022



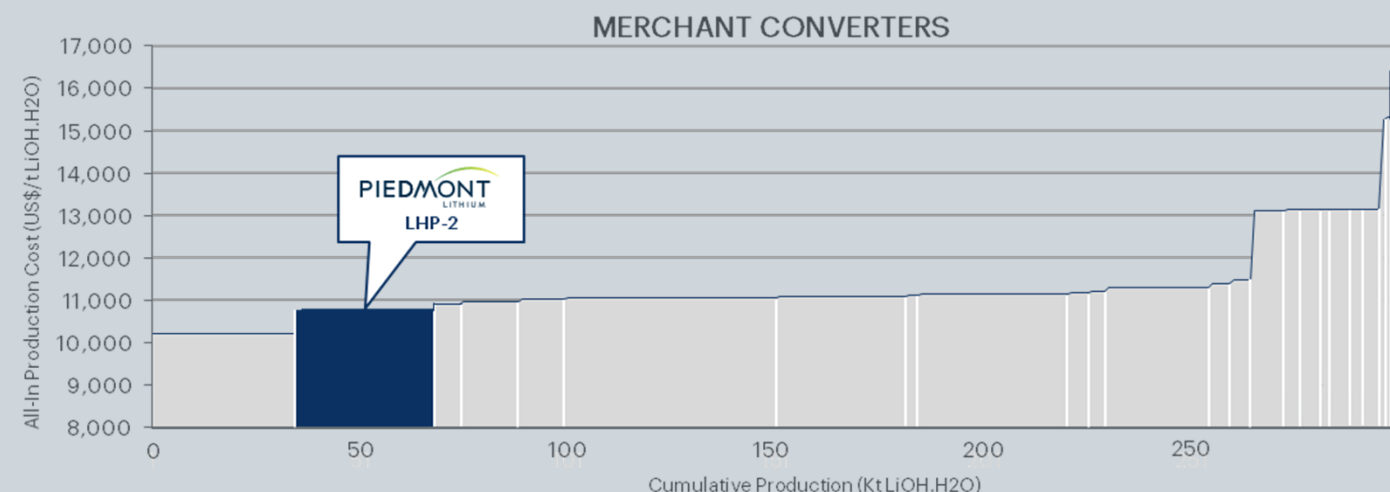
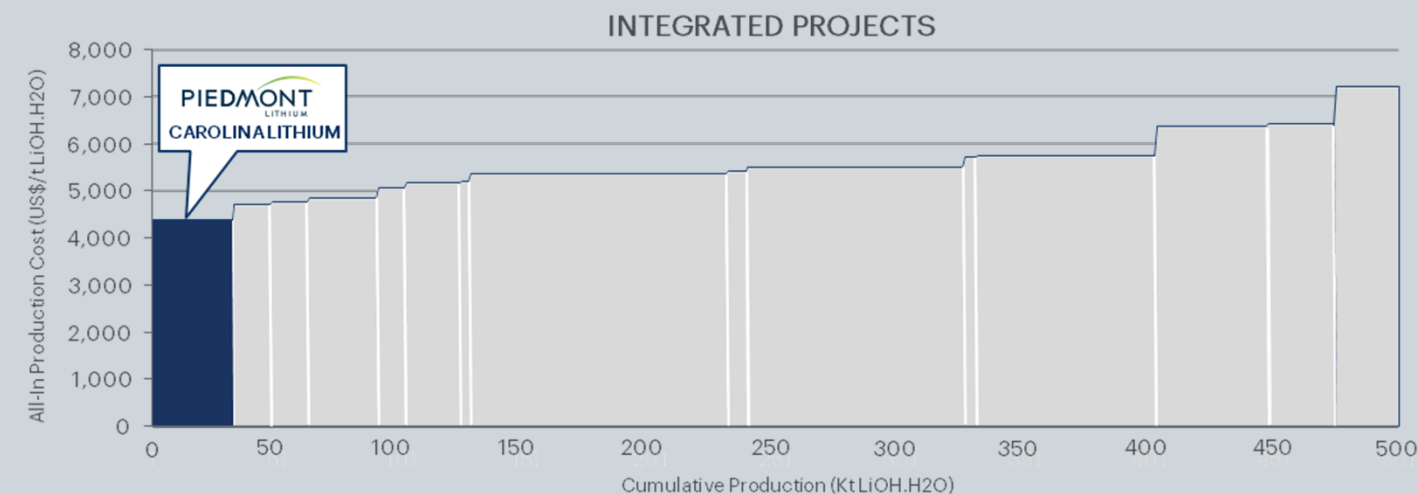
# WHY PIEDMONT?

## A Premier Lithium Development Company

<b>Strong Lithium Market Fundamentals</b>	<ul style="list-style-type: none"><li>▪ Total Addressable Market for lithium expected to exceed \$50 billion for EV applications by 2030<sup>1</sup></li><li>▪ EV penetration expected to grow 10x from ~4% in 2020 to over ~40% by 2030</li><li>▪ Supply/demand imbalance has driven lithium prices to all-time highs</li></ul>
<b>Three Strategic Spodumene Resources</b>	<ul style="list-style-type: none"><li>▪ North Carolina offers favorable infrastructure, talent and proximity to large customers</li><li>▪ Sayona/NAL investment in Quebec capitalizes on low-cost, sustainable hydroelectricity</li><li>▪ Atlantic Lithium may provide additional high-quality SC6 to support North American LiOH production</li></ul>
<b>Growth Pipeline with Attractive Economics</b>	<ul style="list-style-type: none"><li>▪ Large spodumene resource base underpins potential growth in lithium hydroxide production</li><li>▪ \$2.8 billion NPV for Carolina Lithium; low capex expected in Quebec (brownfield) and Ghana (DMS)</li><li>▪ Economies of scale should be available with additional trains at core LiOH sites</li></ul>
<b>Proven Leadership Team</b>	<ul style="list-style-type: none"><li>▪ Operational team with large company mining and specialty chemicals experience</li><li>▪ Experienced people in all senior staff functions</li><li>▪ Senior leadership focused on driving shareholder value in a responsible way</li></ul>
<b>Sustainable Business Model</b>	<ul style="list-style-type: none"><li>▪ Targeting low carbon, water and land footprint relative to other conventional lithium projects</li><li>▪ Expect to utilize renewable solar power in North Carolina and hydro power in Quebec and Ghana</li><li>▪ Fully-integrated LiOH manufacturing and by-product credits drive low-cost position</li></ul>
<b>Focused on Execution in 2022</b>	<ul style="list-style-type: none"><li>▪ Detailed engineering underway for restart of NAL with first production possible in H1 2023</li><li>▪ Ewoyaa Feasibility Study expected in Q4 2022 with possible construction decision to follow</li><li>▪ Site selection, feasibility study, and permitting activities for LHP-2</li><li>▪ Completing permitting, engineering and financing for Carolina Lithium</li></ul>

# 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

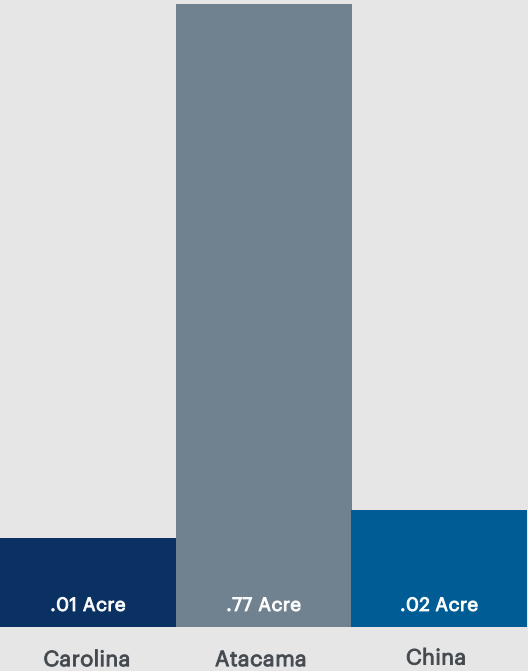


PLL Advantage  
Per LiOH Tonne

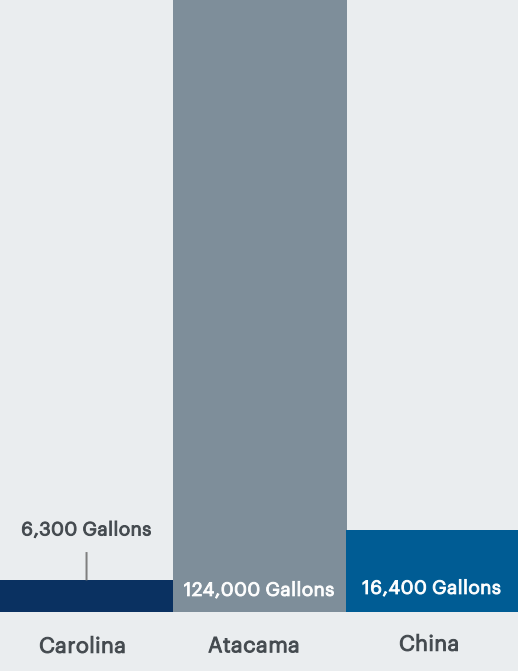
	North Carolina	Western Australia	PLL Advantage Per LiOH Tonne
Personnel (US\$/y avg.)	\$90,000	\$150,000	~\$300
Electricity (kWh)	5.7c	17.0c	~\$300
Natural Gas (Gi)	\$4.01	\$9.00	~\$130
SC6 Transport (T)	\$2	\$71	~\$475
LiOH Tailing Disposal (T)	\$0	\$50	~\$350
State Royalties	0%	5%	~\$225
By-product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

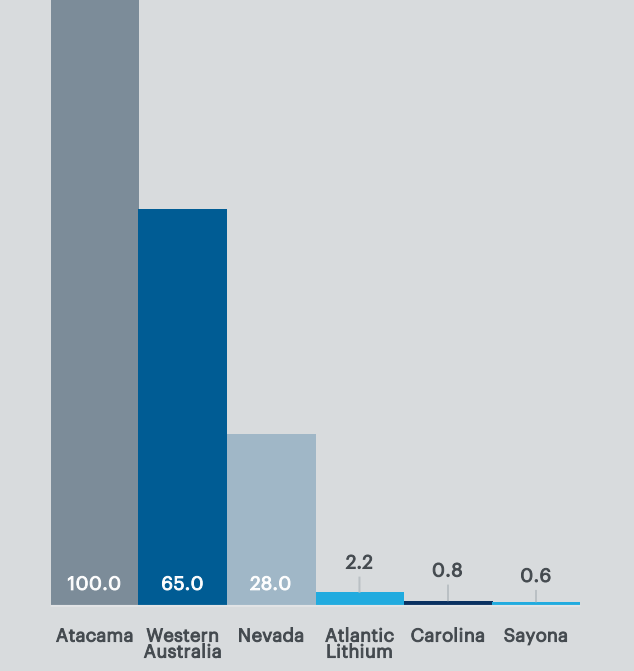
# INDUSTRY LEADING SUSTAINABILITY



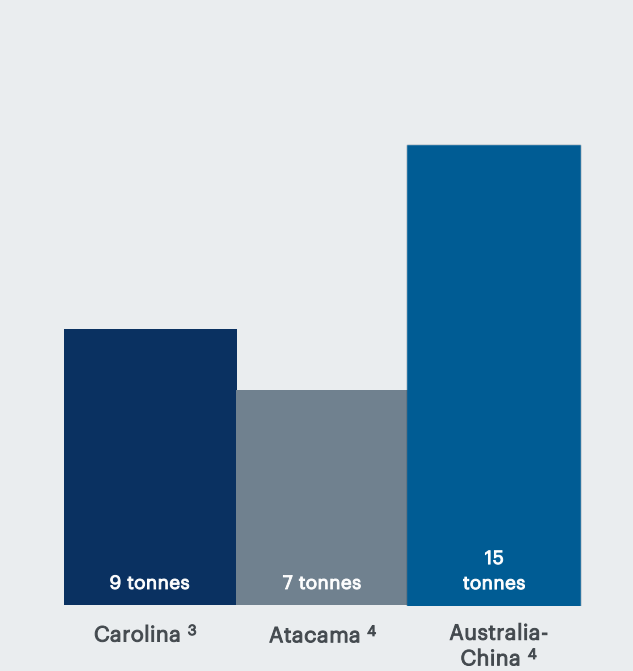
**Land Footprint <sup>1</sup>**  
Per Tonne of Lithium Hydroxide Monohydrate Per Year



**Direct Water Use <sup>1</sup>**  
Per Tonne of Lithium Hydroxide Monohydrate



**Water Scarcity Factor <sup>2</sup>**  
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 CO<sub>2</sub> Impact of the 2020s' Battery Quality Lithium Hydroxide Supply Chain, Minviro Public Report (2020)

# ORE RESERVES AND MINERAL RESOURCES

## PLL Global Mineral Resources - 100% Basis for Each Project

Category	Carolina Lithium <sup>1</sup>				Sayona Quebec <sup>2</sup>				Atlantic Lithium <sup>3</sup>			
	Mt	Grade (Li <sub>2</sub> O%)	Li <sub>2</sub> O (kt)	LCE (kt)	Mt	Grade (Li <sub>2</sub> O%)	Li <sub>2</sub> O (kt)	LCE (kt)	Mt	Grade (Li <sub>2</sub> O%)	Li <sub>2</sub> O (kt)	LCE (kt)
<b>Ore Reserves</b>												
Proven	-	-	-	-	-	-	-	-	-	-	-	-
Probable	18.3	1.10%	200	495	-	-	-	-	-	-	-	-
<b>Total Ore Reserves</b>	<b>18.3</b>	<b>1.10%</b>	<b>200</b>	<b>495</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Mineral Resources</b>												
Measured	-	-	-	-	7.5	0.98%	74	182	-	-	-	-
Indicated	28.2	1.11%	313	774	80.3	1.05%	846	2,091	20.5	1.29%	265	654
<b>Total M&amp;I</b>	<b>28.2</b>	<b>1.11%</b>	<b>313</b>	<b>774</b>	<b>87.8</b>	<b>1.05%</b>	<b>920</b>	<b>2,273</b>	<b>20.5</b>	<b>1.29%</b>	<b>265</b>	<b>654</b>
Inferred	15.9	1.02%	162	401	31.2	1.07%	334	826	9.6	1.19%	114	281
<b>Total</b>	<b>44.2</b>	<b>1.08%</b>	<b>475</b>	<b>1,175</b>	<b>119.0</b>	<b>1.05%</b>	<b>1,254</b>	<b>3,099</b>	<b>30.1</b>	<b>1.26%</b>	<b>379</b>	<b>936</b>

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 March 24, 2022 for JORC Code Compliant MRE.



# 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% Li<sub>2</sub>O and Mineral Resource estimate of 44.2Mt @ 1.08% Li<sub>2</sub>O comprised of Indicated Mineral Resources of 28.2Mt @ 1.11% Li<sub>2</sub>O and Inferred Mineral Resources of 15.9Mt @ 1.02% Li<sub>2</sub>O 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](http://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 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](http://www.sec.gov).

**LiOH**



# **LITHIUM – MADE IN THE USA**

**Helping Secure America's Energy Independence**

**May 2022**

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