

BUILDING AMERICA'S LEADING LITHIUM HYDROXIDE BUSINESS

 Nasdaq:PLL

 ASX:PLL

ARBN 647 286 360

February 2022

LiOH

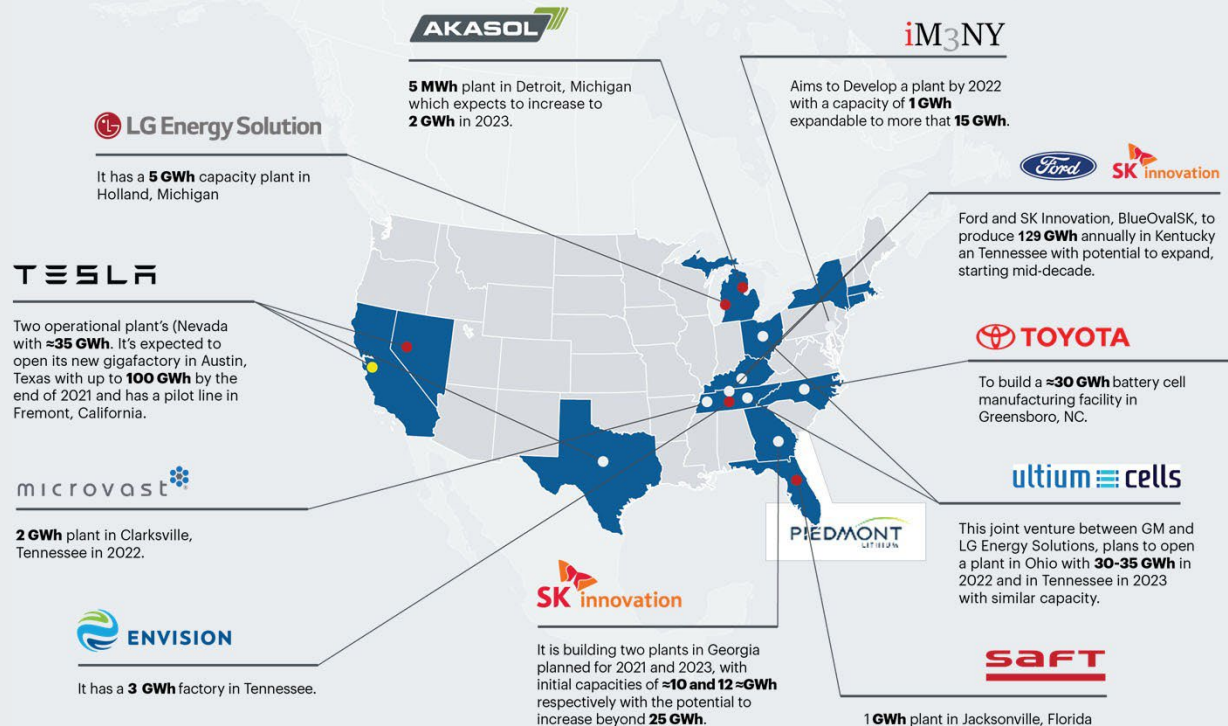
BUILDING NORTH AMERICA'S LEADING SOURCE OF LITHIUM HYDROXIDE

Powering the Electric Vehicle Transition.
Returning Jobs to America.
Reinforcing U.S. National Security.
Investing in a More Sustainable Planet.

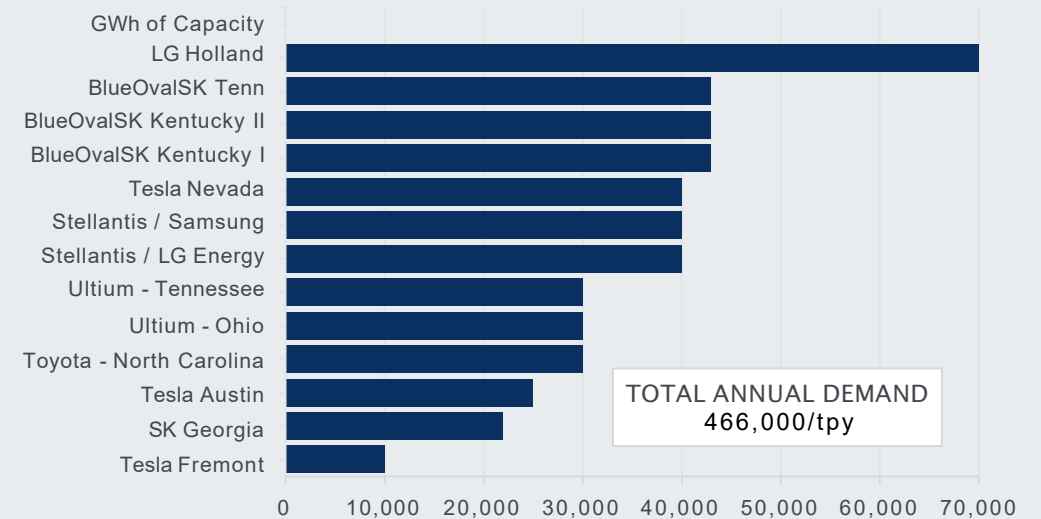
DOMESTIC SHORTFALLS ANTICIPATED

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

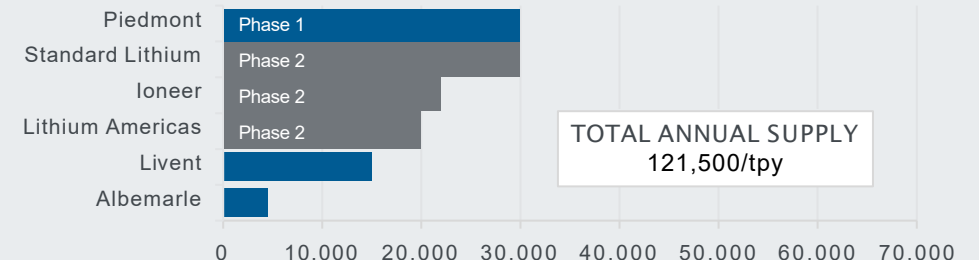
AMERICAN GIGAFACTORIES



LiOH REQUIRED BY SELECTED GIGA-FACTORIES BY 2025+



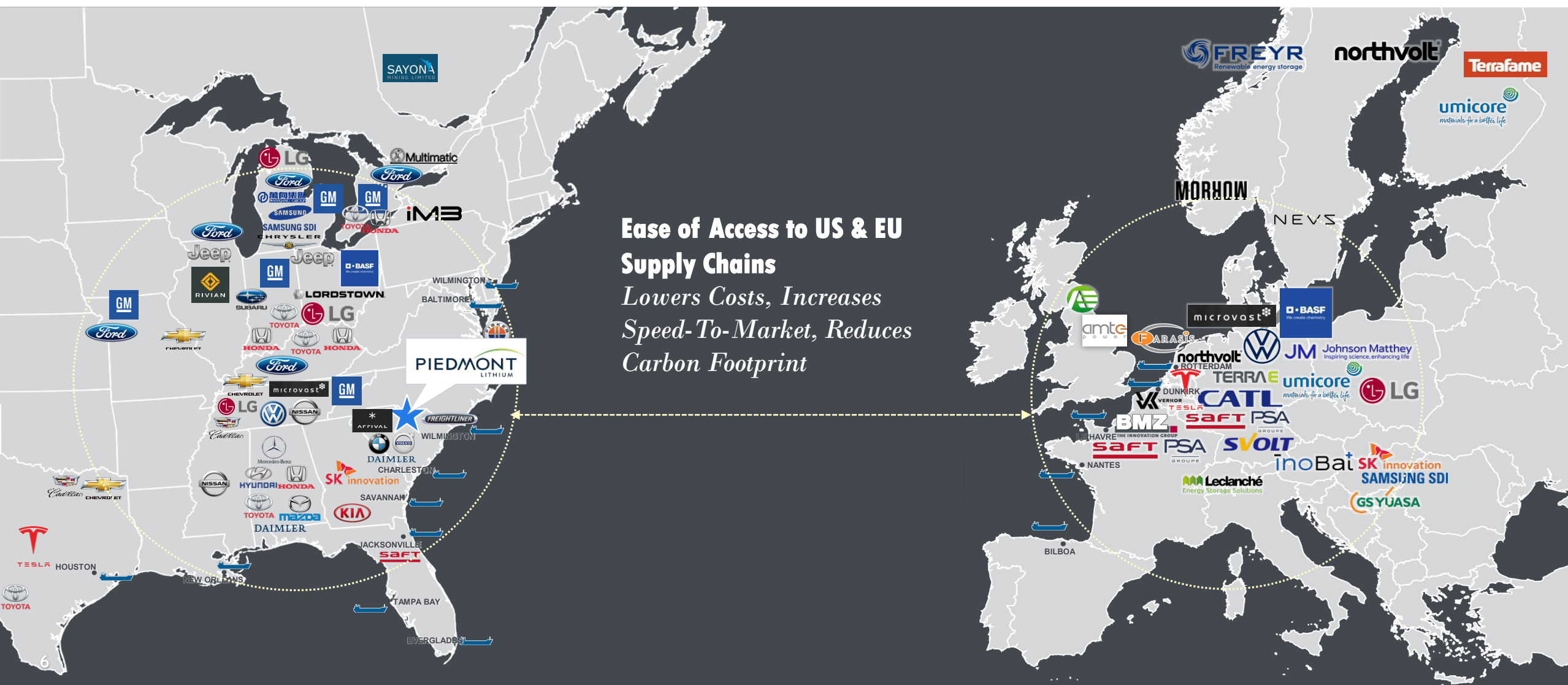
SELECTED US LITHIUM HYDROXIDE SUPPLY BY 2025+



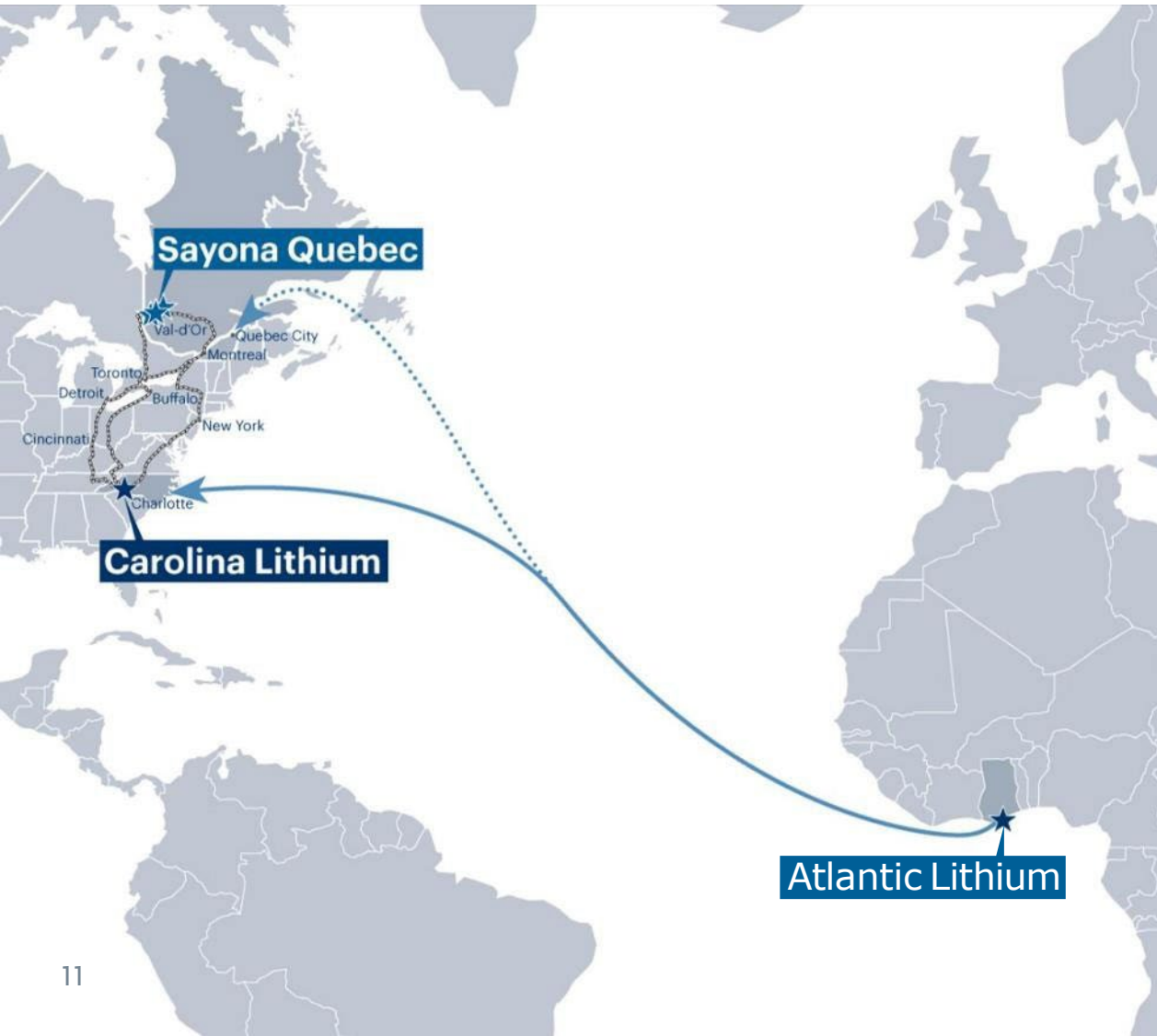
Source: Benchmark Mineral Intelligence – Lithium Forecast, Q3 2021, company announcements and Piedmont Lithium estimates

ELECTRIFICATION DEMANDS REGIONALIZATION

UNITED STATES - SUSTAINABLE LOCATION AND BUSINESS FRIENDLY ENVIRONMENT



OVERALL PROJECT VIEW



CAROLINA LITHIUM (100% OWNERSHIP)

PLL

Project	Carolina Lithium
Location	Gaston County, North Carolina
Phase 1 Project Stage	Bankable Feasibility Study
Mineral Resources	44.2Mt @ 1.08% Li ₂ O
Production	30,000tpy LiOH; 242,000tpy SC6
Economics	\$2.0bb NPV; ~\$459mm run-rate EBITDA

QUEBEC PROJECTS (~37% ECONOMIC INTEREST¹)

SYA

Project	Authier + NAL
Location	Abitibi Region, Quebec
Project Stage	DFS to be updated in 2022
Mineral Resources	78.7Mt @ 1.04% Li ₂ O ²
Production / Economics	TBD

ATLANTIC LITHIUM (EARNING UP TO 50% PROJECT INTEREST³)

ALL

Project	Ewoyaa
Location	Cape Coast, Ghana
Project Stage	Scoping + Exploration
Mineral Resources	21.3Mt @ 1.31% Li ₂ O ⁴
Production	300,000tpy SC6 (50% to PLL) ⁵
Economics	\$789mm NPV; \$70mm capex ⁵

¹ Piedmont owns a 25.0% interest in Abitibi Lithium and a 16.52% stake in Sayona Mining, resulting in an effective economic interest of 37.4%.

² Pro-forma 78.7Mt @ 1.04% Li₂O based on Sayona Quebec JORC Code Compliant MRE of 20.94Mt @ 1.01% Li₂O announced on September 24, 2018 and NAL NI 43-101 Compliant MRE of 57.7Mt @ 1.05% Li₂O effective August 24, 2017 and reported by Sayona Mining on September 13, 2021 as a Foreign Mineral Resource Estimate.

³ Piedmont can earn a 50% interest in Atlantic Lithium's Ghanaian lithium portfolio and owns 9.9% of Atlantic Lithium.

⁴ Refer to Atlantic Lithium AIM announcement dated December 1, 2021 for JORC Code Compliant MRE.

⁵ Refer to Atlantic Lithium AIM announcement dated December 7, 2021.

CAROLINA LITHIUM

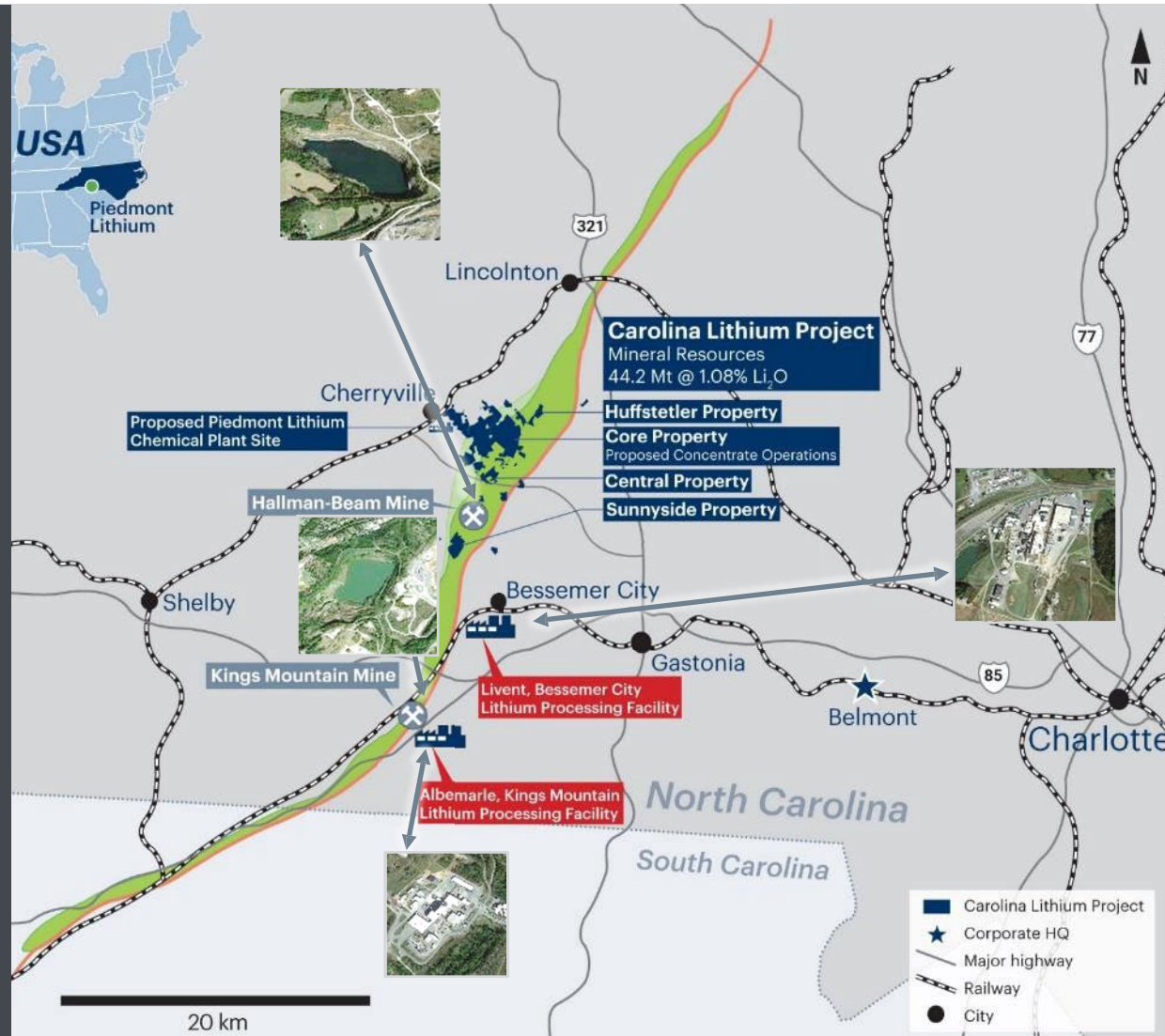
PLL

LOCATION

- Gaston County, NC
- 25 miles west of Charlotte
- 'Cradle of lithium'
- Strong infrastructure
- Single integrated site
- Skilled local labor
- Proximity to lithium and by-product markets

HIGHLIGHTS

- Private land – not subject to federal/state royalties
- Large high-grade resource
- Pure spodumene mineralogy
- Industry-leading ESG profile
- Projected to be a low-cost producer



FACT SHEET¹

Location	North Carolina, USA
Project Stage	Bankable 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	\$3,657/t LiOH
EBITDA	~\$460mm first 10 years
After-tax NPV ₈	~\$2.0 billion
After-tax IRR	27%
Payback	3.5 years

¹: Refer to results of PLL Bankable Feasibility Study announcement dated December 14, 2021. Based on Piedmont estimates prepared pursuant to S-K 1300 and the JORC Code.

QUEBEC PROJECTS

Piedmont Owns a 25% Project Interest



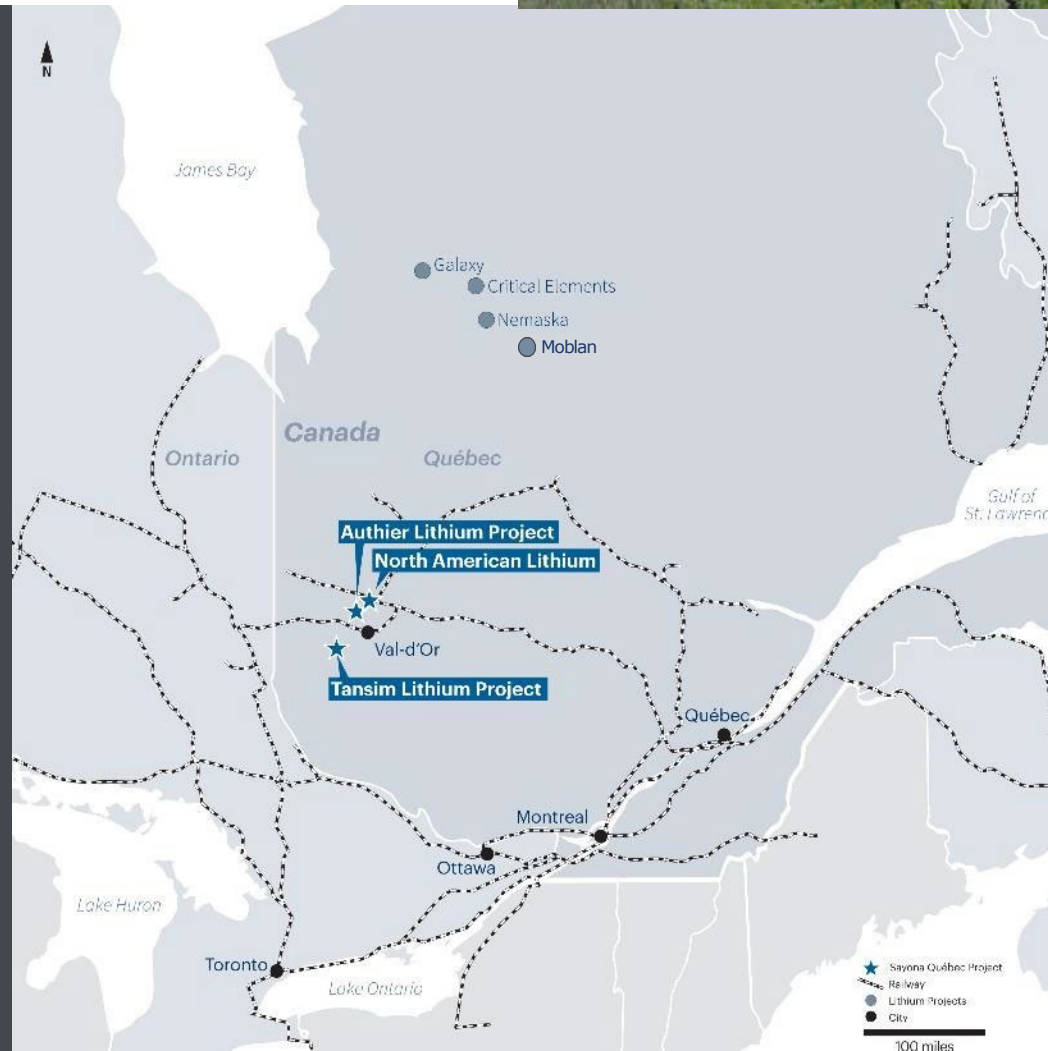
SYA

LOCATION

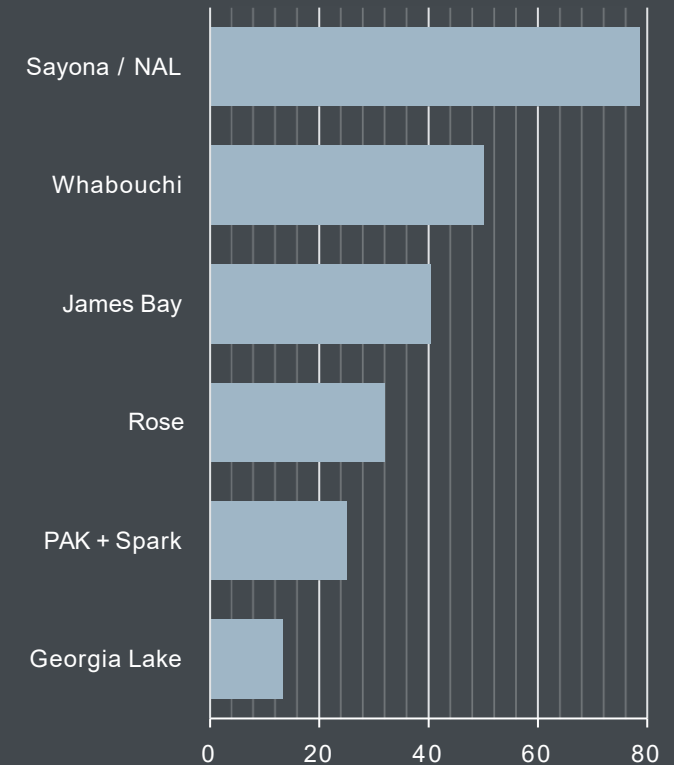
- One of Quebec's best-located lithium projects
- Close to Val-d'Or, a major mining center in Quebec's Abitibi region
- Good rail and highway infrastructure
- Skilled local labor and contractors
- Low-cost renewable hydroelectricity

HIGHLIGHTS

- North America's largest spodumene resource
- NAL is a past-producer with \$400mm of capital investment
- Authier is DFS-complete and in final stage of BAPE approval
- PLL offtake – > 50% of production or 113,000tpy SC6 – price ceiling \$900/t



Canadian Spodumene Projects¹



¹: Open-pit lithium resources (Mt) from public filings. Sayona / NAL Mineral Resources include Mineral Resources of North American Lithium and are based on Sayona public filings.

ATLANTIC LITHIUM

Piedmont Earning a 50% Project Interest



IRR

LOCATION

- Mining-friendly jurisdiction
 - 100-year mining history
- ~70 miles from major port along national highway
- Short transport to North America for hydroxide conversion
- Skilled labor pool

HIGHLIGHTS

- Shallow, high-grade resource with potential exploration upside
 - 260 square mile exploration package
- Coarse-grained spodumene implies low capex DMS flowsheet
- Adjacent hydroelectric powerlines



FACT SHEET

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

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

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



WHY PIEDMONT?

The Industry's Premier Lithium Development Company

Large Addressable Market	<ul style="list-style-type: none">▪ Total Addressable Market for lithium expected to exceed \$50 billion for EV applications by 2030¹▪ EV penetration expected to grow 10x from ~4% in 2020 to over ~40% by 2030▪ Grid storage market may potentially be larger than EVs in the long term
The Right Lithium Materials	<ul style="list-style-type: none">▪ Production of lithium hydroxide ("LiOH") from spodumene concentrate ("SC6")▪ LiOH required in the long-range batteries expected to dominate the US market▪ SC6 is the preferred feedstock for cost, sustainability and scalability
Three Strategic Spodumene Resources	<ul style="list-style-type: none">▪ North Carolina offers favorable infrastructure, talent and proximity to large customers▪ Sayona / NAL investment in Quebec capitalizes on low-cost, sustainable hydroelectricity▪ Atlantic Lithium may provide additional high-quality SC6 to support North American LiOH production
Growth Pipeline with Attractive Economics	<ul style="list-style-type: none">▪ Large spodumene resource base underpins potential growth in lithium hydroxide production▪ \$2.0 billion NPV for Carolina Lithium; low capex expected in Quebec (brownfield) and Ghana (DMS)▪ Economies of scale should be available with additional trains at core LiOH sites
Sustainable Business Model	<ul style="list-style-type: none">▪ Targeting low carbon, water and land footprint relative to other conventional lithium projects▪ Expect to utilize renewable solar power in North Carolina and hydroelectric in Quebec and Ghana▪ Fully-integrated LiOH manufacturing and by-product credits drive low-cost position
Proven Leadership Team	<ul style="list-style-type: none">▪ Operational team with large company mining and specialty chemicals experience▪ Experienced people in all senior staff functions▪ Senior leadership focused on driving shareholder value in a responsible way

LiOH



LITHIUM – MADE IN THE USA

Powering America's Clean Energy Transition

February 2022

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