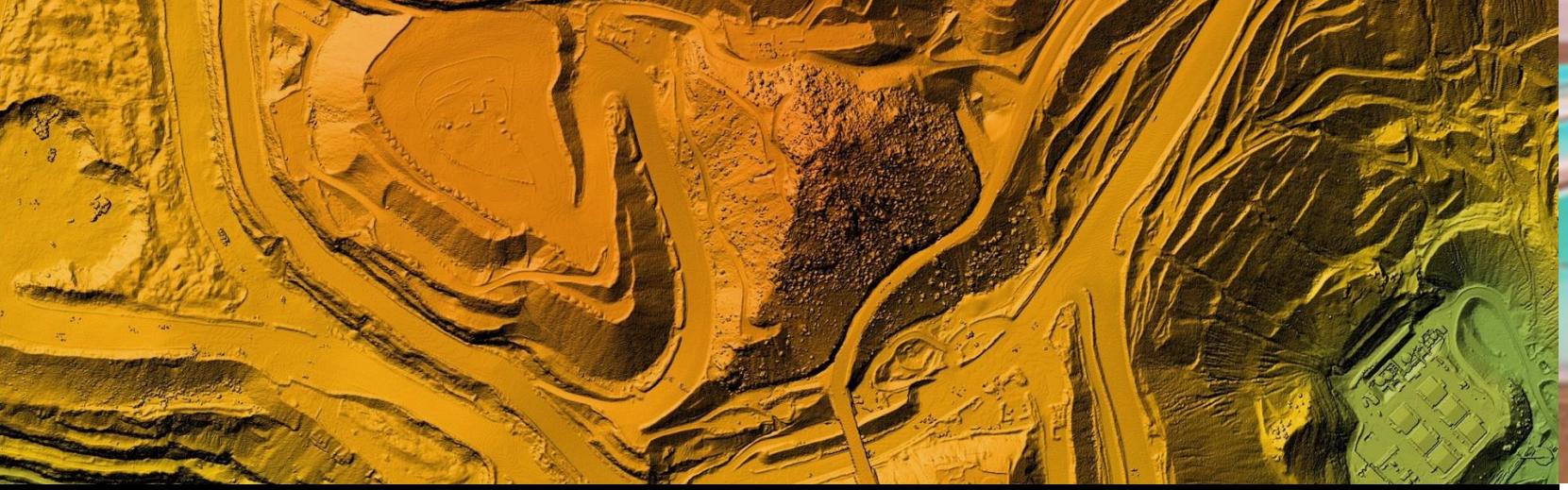

Arcadium Lithium

Investor Presentation

May 2024

NYSE: ALTM **| ASX:** LTM

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Disclaimer

Safe Harbor Statement

Safe Harbor Statement under the Private Securities Litigation Reform Act of 1995: Certain statements in this news release are forward-looking statements. In some cases, we have identified forward-looking statements by such words or phrases as "will likely result," "is confident that," "expect," "expects," "should," "could," "may," "will continue to," "believe," "believes," "anticipates," "predicts," "forecasts," "estimates," "projects," "potential," "intends" or similar expressions identifying "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995, including the negative of those words and phrases. Such forward-looking statements are based on our current views and assumptions regarding future events, future business conditions and the outlook for Arcadium Lithium based on currently available information. There are important factors that could cause Arcadium Lithium's actual results, level of activity, performance or achievements to differ materially from the results, level of activity, performance or achievements expressed or implied by the forward-looking statements, including the factors described under the caption entitled "Risk Factors" in Arcadium Lithium's 2023 Form 10-K filed with the Securities and Exchange Commission ("SEC") on February 29, 2024, as well as Arcadium Lithium's other SEC filings and public communications. Although Arcadium Lithium believes the expectations reflected in the forward-looking statements are reasonable, Arcadium Lithium cannot guarantee future results, level of activity, performance or achievements. Moreover, neither Arcadium Lithium nor any other person assumes responsibility for the accuracy and completeness of any of these forward-looking statements. Arcadium Lithium is under no duty to update any of these forward-looking statements after the date of this news release to conform its prior statements to actual results or revised expectations.

Non-GAAP Financial Terms

Arcadium Lithium uses the financial measures Adjusted EBITDA, adjusted EPS and adjusted cash from operations. These terms are not calculated in accordance with generally accepted accounting principles (GAAP). Definitions of these terms, as well as a reconciliation to the most directly comparable financial measure calculated and presented in accordance with GAAP, are provided on our website ir.arcadiumlithium.com.

We Are Arcadium Lithium

Formed from the Jan 4, 2024 merger of Allkem and Livent.

One of the world's leading globally integrated lithium chemical producers.

A leader in all major forms of lithium extraction: pond-based evaporative systems, DLE and hard rock mining.

Multi-year customer relationships with some of the leading innovators in electrification.

Committed to quality, collaboration and a sustainable future.

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Our Purpose

We safely and responsibly harness the power of lithium to improve people's lives and accelerate the transition to a clean energy future.

Our Vision

A sustainable world in which lithium enables exciting possibilities for renewable energy, electric transportation and modern life.

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History of Arcadium Lithium

1944
Lithium Corp. of America Founded

Worked with the U.S. government, developing useful applications for lithium.

1985
FMC Acquires Lithium Corp. of America

Creates the largest lithium supplier in the world.

1991
Sony Partnership

Supplied lithium for Sony's first lithium-ion batteries for portable electronics.

2008
Battery Lab Created

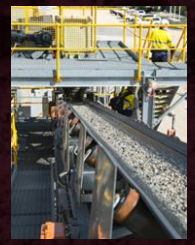
To advance innovation, our battery research lab helps develop and test new chemistries and designs.

2010
Toyota Tsusho

Joint venture is launched with Toyota Tsusho to develop Olaroz; later expanded to Naraha.

2015
Olaroz Launch

Lithium facility in northern Argentina begins production of high-grade lithium carbonate.



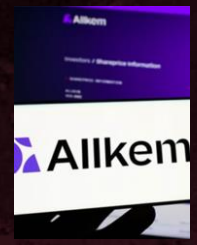
2016
Mt. Cattlin Restart

Production resumed at Mt. Cattlin mine, producing high-quality spodumene concentrate.

2018
Livent Spin-Off

FMC Corporation spins off its lithium business, creating an independent Livent.

Livent



2021
Allkem Merger

Allkem formed from the merger of Orocobre and Galaxy Resources.

2024
Arcadium Lithium Forms

Allkem and Livent combine to create a global leader.

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1944 — 1985 — 1991 — 2008 — 2010 — 2015 — 2016 — 2018 — 2021 — 2024

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Company Snapshot

$2.0B

CY'23A Pro Forma Revenue

~2,400

Employees

8

Operating Sites

5

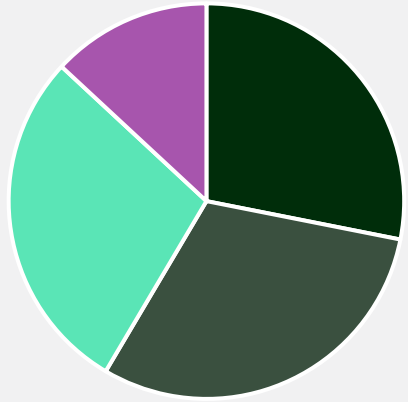
Development Assets

10

Countries, including locations of operating sites, development assets and offices

69-73kt

2024 Expected Volumes (LCE [1] Basis)



CY'23A PRO FORMA REVENUE BY PRODUCT

Lithium Carbonate [2]:	28%
Spodumene [3]:	30%
Lithium Hydroxide:	28%
Butyllithium & Other Lithium Specialties:	14%

(1) Lithium Carbonate Equivalents.
(2) Includes lithium carbonate by-product revenues of $13.8 million.
(3) Includes low grade spodumene sales and minimal other products of $37.7 million.

Leadership Team

Paul Graves
Chief Executive Officer

Gilberto Antoniazzi
Chief Financial Officer

Sara Ponessa
General Counsel

Alicia Markmann
Chief Human Resources Officer

Barbara Fochtman
Chief Downstream Operations Officer and Head of International Operations

Christian Cortes
Chief Integration Officer

Denis Couture
Managing Director, Galaxy (James Bay)

Hersen Porta
Chief Upstream Operations Officer and General Manager of Argentina

Karen Vizental
Chief Sustainability and Global Communications Officer

Liam Franklyn
Head of Australian Operations

Neil Robertson
Chief Projects Officer

Sarah Maryssael
Chief Strategy Officer and General Manager of Canada

Walter Czarnecki
Chief Commercial Officer

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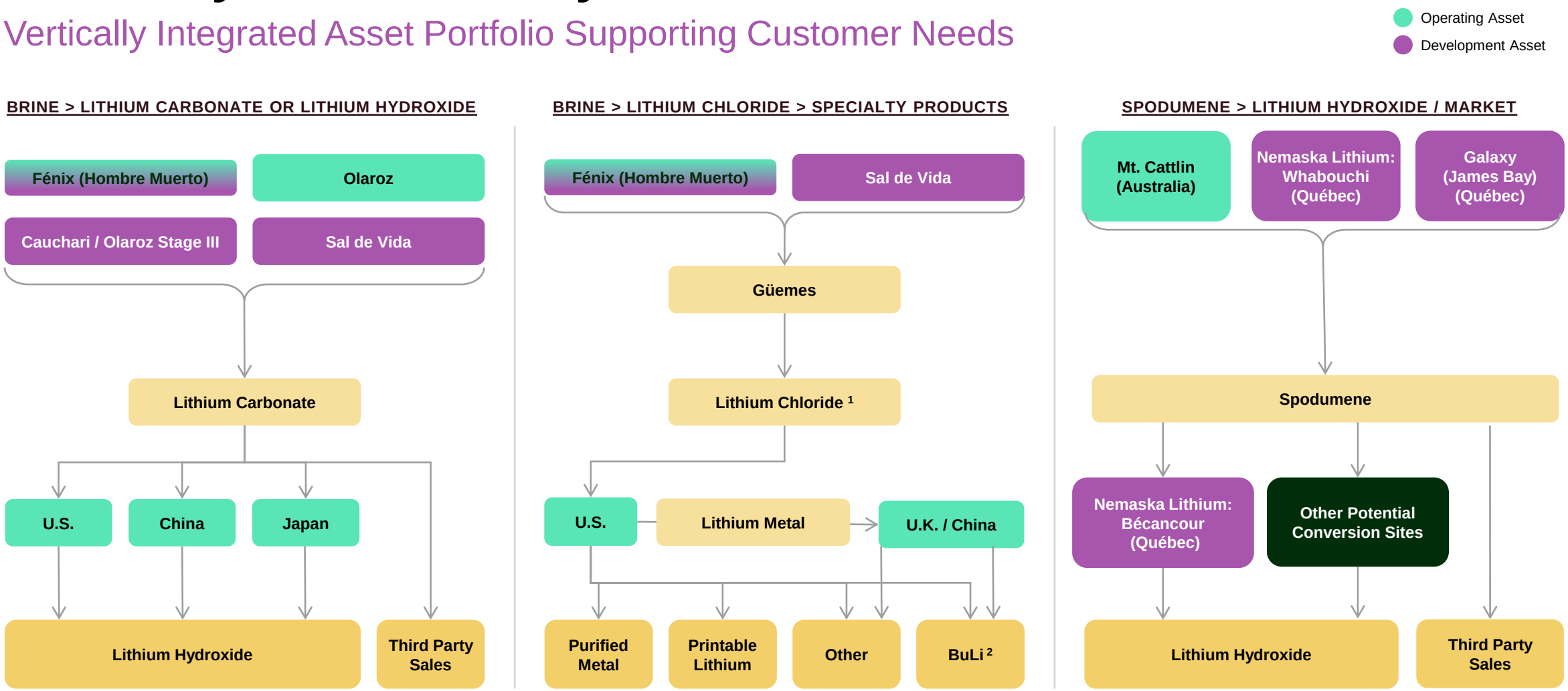
Scale Enhanced by Strategically Located Assets

(1) Contract manufacturing sites.

Reliability and Resiliency Across the Value Chain

Vertically Integrated Asset Portfolio Supporting Customer Needs



(1) A limited amount of lithium chloride is sold directly to customers.
(2) BuLi = butyllithium.

Commercial Focus with Diverse Lithium Chemicals Offering

Diverse Lithium Chemicals Offering

BATTERY-GRADE LITHIUM HYDROXIDE

& BATTERY GRADE LITHIUM CARBONATE

NON-BATTERY LITHIUM HYDROXIDE

& TECHNICAL GRADE LITHUM CARBONATE

HIGH PURITY LITHIUM METAL & OTHER SPECIALTIES

BUTYLLITHIUM

End Markets We Serve

EV ENERGY STORAGE & OTHER RECHARGEABLE BATTERY SYSTEMS

INDUSTRIAL

HIGH PERFORMANCE GREASES

GLASS & CERAMICS

NEXT GENERATION BATTERIES

AEROSPACE

NON-RECHARGEABLE BATTERIES

PHARMA & AGROCHEMI-CALS

POLYMERS

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Strong Relationships With Global Leaders In Electrification

Multi-Year Commercial Relationships Including Customer Prepayments [1]

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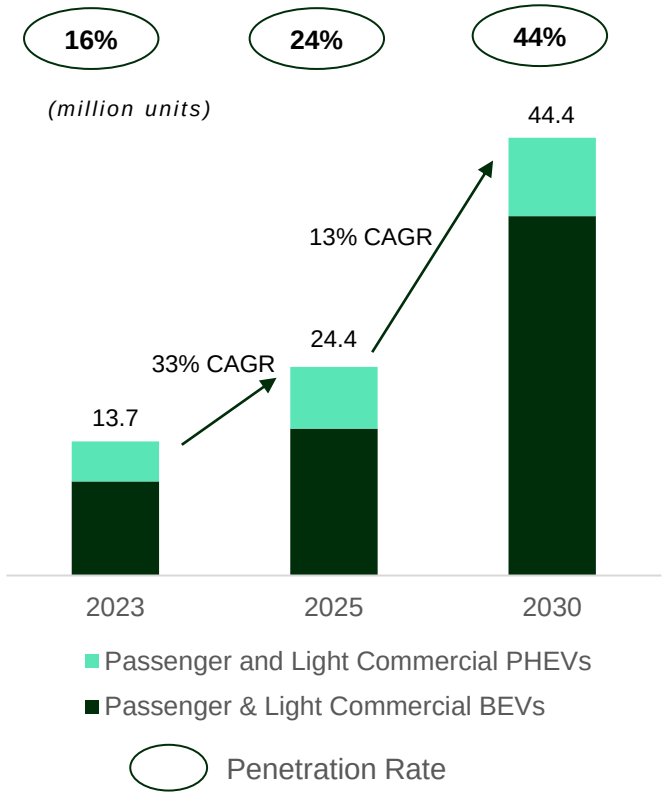
Note: Ford currently a customer of Nemaska Lithium.

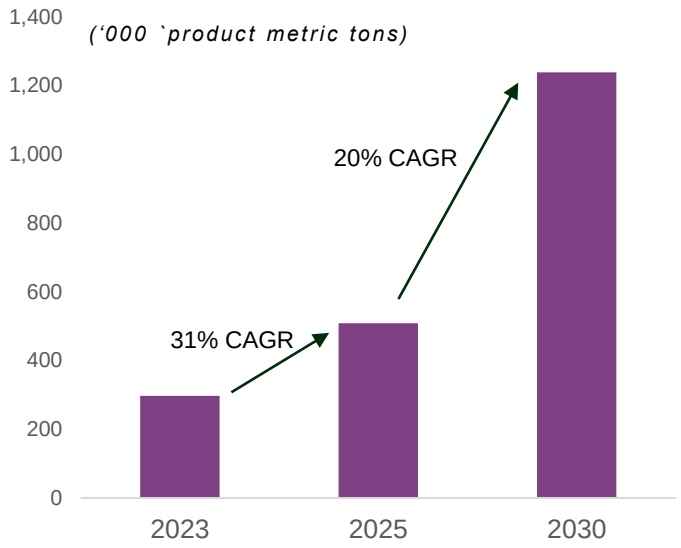
(1) Only includes key customers which have given us permission to publicly disclose our commercial relationship, not all of which contain prepayment terms.

Strong EV Growth and Lithium Demand

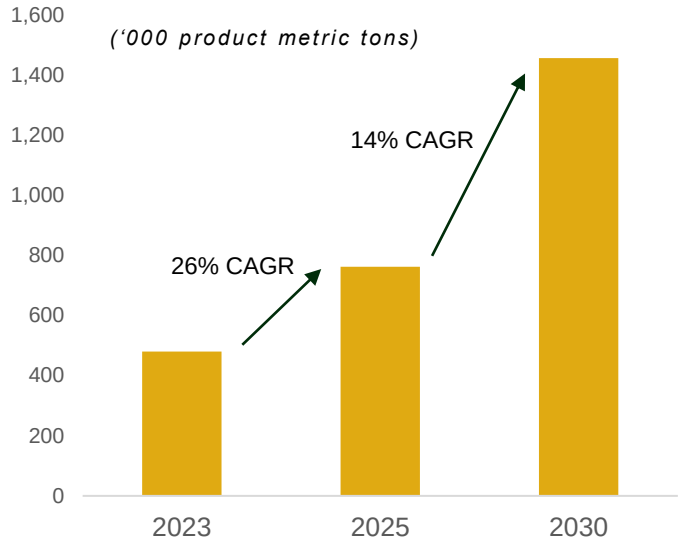
Historical EV Demand & Projections [1]



Battery Grade Lithium Hydroxide Demand [2]



Battery Grade Lithium Carbonate Demand [2]



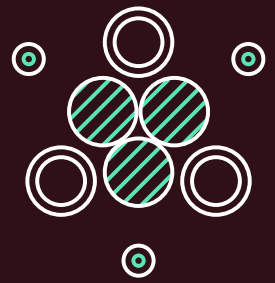
(1) Rho Motion EV Battery Outlook (Q1 2024).
(2) Lithium Forecast Benchmark Mineral Intelligence (Q1 2024).

Strategic Growth Priorities

01

ADVANCE PRODUCTION CAPABILITIES

02



DEVELOP NEXT GENERATION LITHIUM COMPOUNDS

03

EXPAND APPLICATION AND PROCESS TECHNOLOGY

04

ADVANCE A CLEANER, HEALTHIER AND MORE SUSTAINABLE FUTURE

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Full Year 2024 Outlook

Sales Volumes

Product	Take or Pay	2023 Volumes (LCE Basis)	2024E Volumes (LCE Basis)	Pricing Mechanism
Multi-Year Agreements	Yes	15.0	16	Fixed Annually or Floors / Ceilings
Uncommitted	No	2.5	8 - 10	Variable / Market Reference
Lithium Hydroxide[1]		17.5	24 - 26	
Lithium Carbonate[2]	No	19.5	25 - 28	Variable / Market Reference
Other Specialties (BuLi, HPM, etc.) - LCEs	No	2.5	2.5	Bilateral / Negotiated
Total LCEs (ex. Spodumene)		**40**	**52 - 57**	
Spodumene[3]	No	26.5 *(205 dmt)*	~17 *(~130 dmt)*	Variable / Market Reference
Total LCEs		**66**	**69 - 73**	

Note: BuLi = butyllithium, HPM = high purity lithium metal, dmt = dry metric tons.

(1) Assumes 1 hydroxide product ton = 0.9 LCEs.

(2) Reflects primarily Olaroz Stage 1 and 2 production.

(3) Assumes 1 spodumene dmt = 0.129 LCEs.

2024 Volume Growth and Operational Update

Expect to increase combined lithium carbonate and hydroxide volumes by ~40% (to 50,000 to 54,000 metric tons LCE)



LITHIUM CARBONATE

Fénix (Salar del Hombre Muerto, Argentina)

First 10,000 metric ton expansion (Phase 1A) in initial production; expect up to 75% of capacity to be available in 2024

Olaroz (Argentina)

Ramping up 25,000 metric ton expansion (Stage 2); expect up to 40% of capacity to be available in 2024



LITHIUM HYDROXIDE

Bessemer City (U.S.)

5,000 metric ton expansion will deliver first commercial volumes in 2024

China

15,000 metric ton facility (Zhejiang) completed around year-end 2023 with qualification and ramp-up taking place in 2024


SPODUMENE

Mt. Cattlin (Australia)

Pursuing reduced mining and production plan as part of cost optimization efforts in light of market environment

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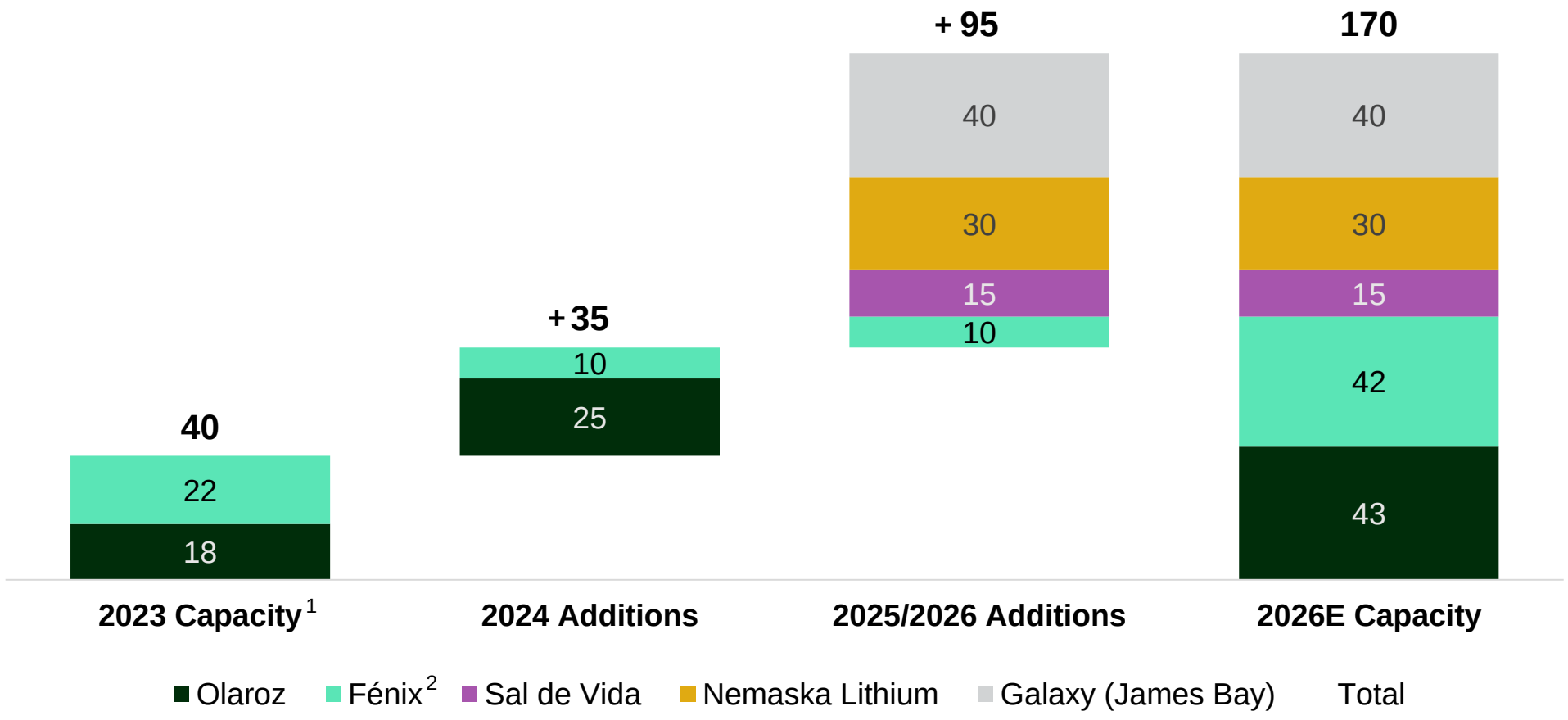
Note: LCE = Lithium Carbonate Equivalents. Includes 100% of Olaroz in which Arcadium Lithium has current economic interest of 66.5%.

Capacity Expansion Through 2026

170,000 LCEs of Capacity via Multiple Expansions (excludes Mt. Cattlin)



Note: Capacity shown in '000 metric ton lithium carbonate equivalents. Assumes 100% consolidation of Olaroz and Nemaska Lithium, in which Arcadium Lithium has current ownership interests of 66.5% and 50%, respectively.

(1) Excludes current Mt. Cattlin capacity and downstream conversion capacity.

(2) Includes lithium chloride capacity.

Future Potential Nameplate Capacity

Asset / Project	Location	Status	Development Timeline	Nameplate Capacity ('000 MT) [1]
Fénix (Base)	Catamarca, Argentina	Operating	--	18
Fénix 1A	Catamarca, Argentina	Ramp-up	2024	10
Fénix 1B	Catamarca, Argentina	Construction	2025	10
Fénix 2	Catamarca, Argentina	Development	TBD	30
Fénix 3	Catamarca, Argentina	Evaluation	TBD	30
Olaroz (Base)	Jujuy, Argentina	Operating	--	18
Olaroz - Stage 2	Jujuy, Argentina	Ramp-up	2024	25
Sal de Vida - Stage 1	Catamarca, Argentina	Construction	2025	15
Sal de Vida - Stage 2	Catamarca, Argentina	Development	TBD	30
Cauchari	Jujuy, Argentina	Evaluation	TBD	25
Total Carbonate				**211**
Bessemer City	U.S.	Operating	--	15
Rugao	China	Operating	--	15
Zhejiang	China	Ramp-up	2024	15
Naraha	Japan	Ramp-up	2024	10
Total Carbonate to Hydroxide Conversion [2]				**55**
Other Lithium Specialties (Butyllithium, High Purity Metal, etc.)	Global	Operating	--	3 (LCE [3])
Nemaska Lithium (Integrated Spodumene to Hydroxide)	Québec, Canada	Construction	2026	32
Galaxy (Spodumene)	Québec, Canada	Development	2026	40 (LCE [3])
Total Capacity (excludes Mt. Cattlin)				**~280 (LCE [3])**

Note: excludes Mt. Cattlin spodumene capacity; assumes 100% consolidation of Olaroz, Nemaska Lithium and Naraha, in which Arcadium Lithium has current ownership interests of 66.5%, 50% and 75%, respectively.

(1) Shown in product metric tons unless specified otherwise.

(2) Not added to total capacity as it uses internally produced lithium carbonate as feedstock.

(3) Lithium Carbonate Equivalents.

Lithium Carbonate

Brine to Lithium Carbonate

- High-quality brine in locations that enable compatible and efficient development and processing.
- One of lowest cost producers for lithium carbonate globally.

ASSETS

- 100% Ownership
- Lithium Carbonate / Lithium Chloride
- Operating / Ongoing Expansion

FÉNIX (HOMBRE MUERTO)

CATAMARCA, ARGENTINA

Uses a proprietary Direct Lithium Extraction (DLE) technology that speeds up conversion and reduces land footprint. The resource has a very high-grade lithium brine with historical production >740 mg/L (605ppm) and very low variability. Current production does not extend below 40m and inferred resource only reaches 200m, easily supporting additional expansion. Phase 1 expansion will bring nameplate capacity to 38,000 metric tons. Phase 2 and 3 can provide an additional 30,000 metric tons each.

- 66.5% Ownership
- Lithium Carbonate
- Operating

OLAROZ

JUJUY, ARGENTINA

Since 2014, our brine-based lithium facility has supplied lithium carbonate to global customers and is one of the world's largest producing lithium evaporation pond sites. With the recent expansion, Olaroz's nameplate capacity is 42.5kpa lithium carboante.

- 100% Ownership
- Lithium Carbonate
- In Development

SAL DE VIDA

CATAMARCA, ARGENTINA

Sal de Vida is a globally competitive project with high quality brine chemistry that is within 10 kilometers of our operations at Fénix. Sal de Vida is expected to produce 45ktpa of lithium carbonate with Stage 1 (15ktpa) currently in construction.

- 100% Ownership
- Lithium Carbonate
- Pre-Development

CAUCHARI

JUJUY, ARGENTINA

In order to add dependable new growth and development capacity, we acquired Cauchari in April 2020. With similar chemistry to the nearby Olaroz, this will enable compatible and efficient development and processing between the two sites. Studies have been completed to support an initial 25ktpa operation.

Lithium Hydroxide

Lithium Hydroxide Conversion

- Lithium hydroxide production assets globally.
- Production capacity in the U.S., Japan and China all fed by internally produced lithium carbonate.
- Nemaska Lithium fully integrated spodumene to hydroxide project.

- 100% Ownership
- Production & Commissioning

BESSEMER CITY

UNITED STATES

The largest U.S. lithium hydroxide producer. A 5,000 metric ton expansion in late 2022 has brought nameplate capacity to 15,000 metric tons.

- Exclusive Contract Manufacturing
- Production & Commissioning

RUGAO AND ZHEJIANG

CHINA

Completed 15,000 metric ton expansion at new location in Zhejiang in late 2023, doubling production capacity in country to 30,000 metric tons.

- 50% Ownership
- Fully integrated spodumene to lithium hydroxide
- In Development

NEMASKA LITHIUM

QUÉBEC, CANADA

The downstream Bécancour plant is expected to produce 32,000 metric tons of lithium hydroxide annually utilizing feedstock from the Whabouchi mine.

- 75% Ownership
- Commissioning

NARAHA

JAPAN

Completed in 2023 with a 75% economic interest via joint venture with partner Toyota Tsusho Corporation. The first of its kind in Japan and designed to convert primary grade lithium carbonate feedstock into purified battery-grade lithium hydroxide at a nameplate capacity of 10,000 metric tons.

Spodumene

Spodumene Direct-to-Market and Integrated

- Strategically positioned to capture global market opportunity with assets in Australia and Canada.
- Critical in the process of producing downstream performance lithium compounds.

ASSETS

- 100% Ownership
- Spodumene Concentrate
- Operating

MT. CATTLIN

WESTERN AUSTRALIA

We produce high quality spodumene concentrate at Mt. Cattlin that is qualified in the lithium supply chain globally. It is a mature operation located in a world-class mining jurisdiction. FY24 production of ~130,000 metric tons reflect current market conditions.

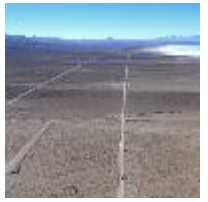
- 100% Ownership
- Spodumene Concentrate
- In Development

GALAXY (JAMES BAY)

QUÉBEC, CANADA

James Bay Project is designed to be a sustainable hard rock mining operation producing roughly 40,000 metric ton LCEs of spodumene concentrate. This project will maximize the usage of renewable energy and we will utilize the spodumene expertise gained from our operation at Mt. Cattlin.

James Bay is within 100 kilometers of the Nemaska spodumene operation at Whabouchi and there is the potential to integrate and refine this material with additional capacity expansion at Bécancour (50% ownership of Nemaska Lithium).



- 50% Ownership
- Fully integrated from spodumene to lithium hydroxide
- In Development

NEMASKA LITHIUM

QUÉBEC, CANADA

The Whabouchi mine is expected to produce 235,000 metric tons of spodumene concentrate per annum that will serve as the feedstock for 32,000 metric tons per year of lithium hydroxide capacity at Bécancour.

Other Specialty Lithium Products

Brine to Lithium Chloride / Metal to Specialty Products

- Long-standing customer relationships from our regional network with strong technical support capabilities.
- Vertically integrated, low-cost lithium chloride from Güemes serves as the primary feedstock

ASSETS

- 100% Ownership
- Operating

BUTYLLITHIUM

UNITED STATES, UNITED KINGDOM & CHINA

We service global butyllithium and organometallic compound needs primarily for the polymer and pharmaceutical markets.

We are a leader in the global butyllithium market with production capacity in the U.S., the U.K. and China totaling 3,265 product metric tons. The U.S. and U.K. plants have both been in operation for over 40 years.

- 100% Ownership
- Operating

LITHIUM METAL & OTHERS

UNITED STATES

At our Bessemer City, North Carolina facility, we produce high purity lithium metal, specialty organics and various inorganic products.

We are a leader in the high purity metal market with 250 product metric tons of capacity and are the only producer in the Western Hemisphere.

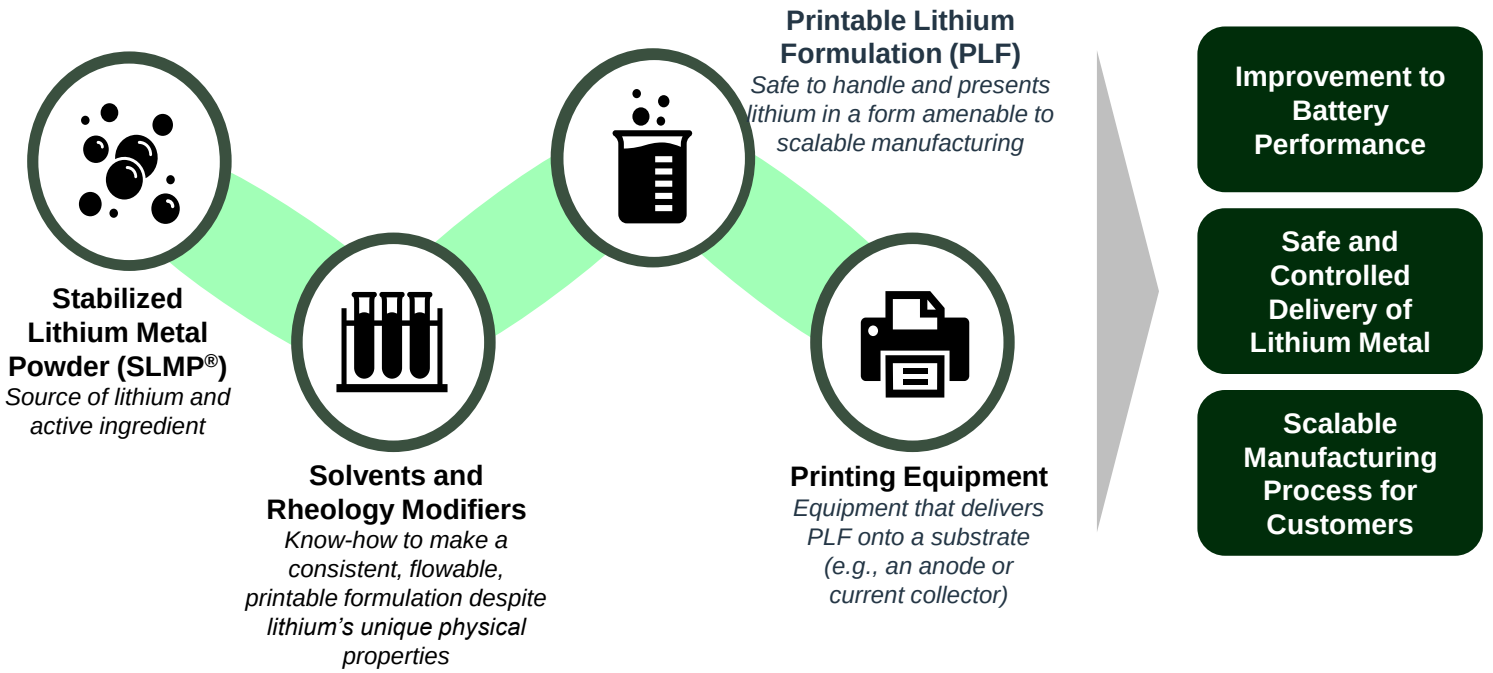
LIOVIX®

UNITED STATES

From our CLEAR Lab in North Carolina, we've introduced LIOVIX®, a unique printable formulation of lithium metal and other specialty materials that can improve the performance of lithium-ion batteries, reduce manufacturing costs, and enable the next generation of battery technologies.

Driven by Innovation

LIOVIX® Technology



LIOVIX®, our Printable Lithium Technology, allows lithium to be deposited onto a substrate in a safe, controlled, scalable manner.

This proprietary technology enables next generation battery production through pre-lithiation and lithium metal anodes.

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Driven by Innovation

Investing in Next Generation DLE Technology

A model layout of ILiAD’s innovative direct lithium extraction (DLE) technology.

Innovative DLE Technologies

Efficient and Flexible

High-Purity Lithium Chloride

- We are a minority owner in ILiAD Technologies, LLC and have the right to license ILiAD technology.
- We are evaluating opportunities for future production use across our portfolio.
- Complementary to our proprietary process technologies and readily fits into our existing plant designs and flowsheet.

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Leading Sustainability Profile

We are a recognized sustainability leader in the lithium industry, building on the strong legacies of both Allkem and Livent. We will continue to lead our industry forward as we integrate our sustainability programs and set new sustainability goals.

Sustainability is central to our mission and a key part of our decision-making process.

We have an unwavering commitment to safety, corporate governance, ethics and responsible production – throughout our operations and in our supply chain.

We pride ourselves on our inclusive and dynamic culture, one which prizes transparency, continuous improvement and delivering value to stakeholders.

Legacy Allkem was once again included in **S&P's Sustainability Yearbook**.

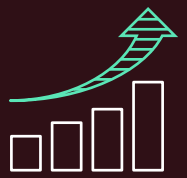
Only 759 companies were selected for the 2024 Yearbook out of more than 9,400 companies.

Legacy Allkem received a B- rating for 2023 Climate Change by the **Carbon Disclosure Project.**

Legacy Livent received Silver and Gold sustainability ratings over the past 5 years from **Ecovadis.**

Legacy Livent was named to **Newsweek's list of America's Most Responsible Companies 2024**.

A Lithium Chemicals Leader

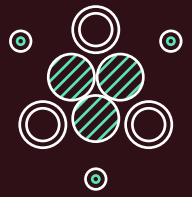


Attractive pathway to growth in a market expected to quadruple by 2030

Significant operating and commercial scale to meet customer demand

Industry-leading economies of scale enhanced by strategic location of assets

Leading position in all major lithium extraction processes – from hard rock and conventional brine to DLE



High-quality, next-generation engineered product offering supported by a reliable, resilient supply chain

Partnerships with Leading Automotive OEMs and Battery Manufacturers

Commitment to advancing a cleaner, healthier and more sustainable future

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