



2023 Sustainability Report—Highlights

Arcadium Lithium is a leading global lithium chemicals producer with a diversified product offering, vertically integrated lithium extraction and manufacturing capabilities, global operations and a lithium deposit base that is among the largest in the world.

Our 2023 Sustainability Report is our “transition year” report following the merger of equals between Allkem Limited (“Allkem”) and Livent Corporation (“Livent”) in January 2024. Our full report covers operations of both legacy companies during the time frame from January 1, 2023 to December 31, 2023, with additional post-merger information relevant to 2024.



To read more about Arcadium Lithium's 2023 Sustainability Performance, you can access our Full Sustainability Report including performance data [here](#).

Nemaska Lithium—Bécancour, Canada (50% Ownership)

Type Manufacturing Facility
Product Lithium Hydroxide

Nemaska Lithium—Whabouchi, Canada (50% Ownership)

Type Mine
Product Spodumene Concentrate

Galaxy, Canada

Type Mine
Product Spodumene Concentrate

Bessemer City, U.S.

Type Manufacturing & Research Facility
Product Lithium Hydroxide, High Purity Lithium Metal, Butyllithium and Other Specialty Lithium Chemicals

Olaroz, Argentina (66.5% Ownership)

Type Brine-based Lithium Facility
Product Lithium Carbonate

Cauchari, Argentina

Type Brine-based Resource

Salar del Hombre Muerto/Fénix, Argentina

Type Brine-based Lithium Facility
Product Lithium Carbonate

Sal de Vida, Argentina

Type Brine-based Lithium Facility
Product Lithium Carbonate

Güemes, Argentina

Type Manufacturing Facility
Product Lithium Chloride

Mt Cattlin, Australia

Type Mine
Product Spodumene Concentrate

Bromborough, U.K.

Type Manufacturing Facility
Product Butyllithium and Specialty Lithium Chemicals

Rugao, China

Type Manufacturing Facility
Product Lithium Hydroxide

Zhangjiagang, China

Type Manufacturing Facility
Product Butyllithium and Specialty Lithium Chemicals

Naraha, Japan (75% Ownership)

Type Conversion plant
Product Hydroxide

Zhejiang (Linhai), China

Type Manufacturing Facility
Product Lithium Hydroxide

Key (as of August 2024)

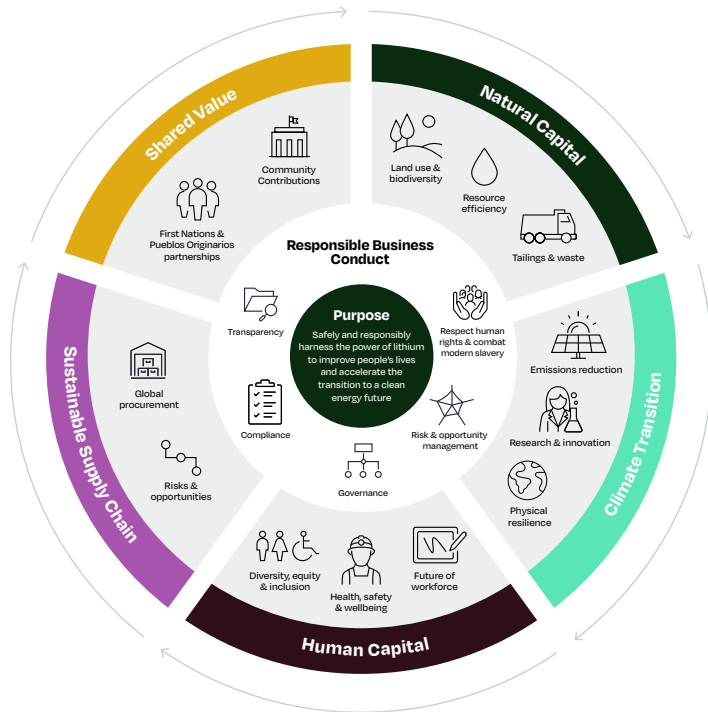
- Operating Asset
- Operating Asset (Operated by JV Partner)
- Exclusive Contract Manufacturing Asset
- Development Asset
- Office

1 Location of Board meetings

OUR APPROACH TO SUSTAINABILITY

Arcadium Lithium brings together two companies with long-standing, dedicated approaches to sustainability.

As part of our merger integration process, we mapped the core elements of the Allkem and Livent sustainability programs and found a high degree of alignment between them. Based on this work, we developed an initial sustainability framework for Arcadium Lithium that combines the focus areas and general structure of the sustainability programs of both predecessor companies. This initial sustainability framework for Arcadium Lithium is shown below.



We intend to evolve this framework as we progress with our integration, continue to establish harmonized metrics, policies and processes, and develop a sustainability strategy for Arcadium Lithium. We will present the new sustainability strategy and goals for Arcadium Lithium in subsequent disclosures.

Allkem Limited
Metals & Mining Industry

Sustainability Yearbook Member

S&P Global Corporate Sustainability Assessment (CSA) Score 2023

S&P Global CSA Score 2023: 64/100
Score date: February 7, 2024
The S&P Global Corporate Sustainability Assessment (CSA) Score is the S&P Global ESG Score without the inclusion of any modelling approaches. Position and scores are industry specific and reflect exclusion screening criteria. Learn more at <https://www.spglobal.com/esg/csa/yearbook/methodology/>

S&P Global **Sustainable1**

S&P Sustainability Yearbook

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.



EcoVadis Medal

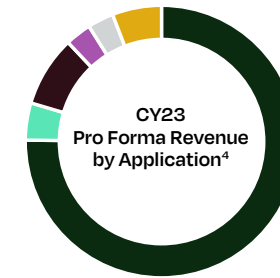
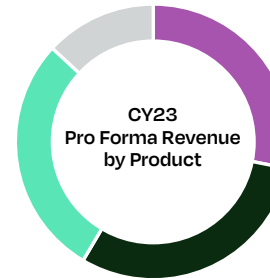
Legacy Livent was awarded the Silver EcoVadis Medal in January 2024, representing the top 15% of companies assessed by EcoVadis for excellence in environmental, labor & human rights, ethics, and sustainable procurement practices.

PRODUCTS THAT ENABLE THE ENERGY TRANSITION

Arcadium Lithium's vertically integrated production base and strong lithium development pipeline means we are strategically aligned with supplying the increasing demand for lithium to support the clean energy transition.



\$2.0B
CY23 Pro Forma Revenue¹

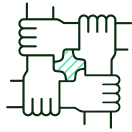


- Lithium Carbonate² **28%**
- Spodumene³ **30%**
- Lithium Hydroxide **28%**
- Butyllithium & Other **14%**
- Lithium Specialties **14%**
- EV & Broader Energy Storage **75%**
- Polymers **8%**
- Industrial **6%**
- Synthesis **3%**
- Other **3%**

Analysis by the International Energy Agency (IEA) indicates that EVs avoid 50% of the total life cycle GHG emissions generated by their ICE counterparts on a global average. This translates to approximately 20 metric tons of carbon dioxide equivalent (CO_{2e}) avoided per EV. Using this figure, we estimate our lithium production in FY23 potentially enabled over 14 million metric tons of CO_{2e} reduction on a total lifecycle basis.

1 CY23 Pro Forma Revenue represents combined revenue for legacy Allkem and Livent.
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.
4 Company internal estimates.

OUR VALUES FRAME OUR APPROACH TO LONG TERM VALUE CREATION



for each other

Fostering inclusive teams centered on safety, well-being, integrity and respect for colleagues.



for our stakeholders

Being a reliable, trusted company that operates responsibly, leads with excellence and delivers value.



We believe that developing a diverse and engaged workforce enriches our organization and is essential to our success as a business. At Arcadium Lithium, safety is more than a priority—it's core to who we are and how we work.



~2,400
Employees¹

0

Fatalities



Male **76%**
Female **24%**



South America **83%**
Australia **13%**
North America **3%**



Male **74%**
Female **24%**
Unspecified **2%**



South America **45%**
North America **33%**
Asia **16%**
Europe **6%**

Total Recordable Injuries in 2023

	Employees	Contractors
Allkem	1	10
Livent	4	7

Working with our Communities

For many years, both Allkem and Livent have worked to contribute positively to neighboring areas by fostering local development and employment programs to improve the quality of life. Arcadium Lithium aims to operate with a continued focus on community relations near our areas of operation, building on legacy initiatives.

We share this value generation in the regions where we operate through payments to our local employees and suppliers as well as through tax, royalty and other fee payments to governments.

2023 Contributions² Include:

ARGENTINA

\$230.4m
Government Payments³

\$792.2m
Capital and Supplier Payments⁴

AUSTRALIA

\$156.2m
Government Payments³

\$148.6m
Supplier Payments⁴

Working with our Customers

Responsible Production—Third Party Audits

We work with third party audit programs to provide our customers with assurance of the high level of commitment we have to sustainability at each of our facilities.

Regular third-party audits are required to maintain site certifications against ISO Quality, Environment and Health & Safety Management System Standards. These certificates are available on [our website](#).

We also apply leading sustainable mining standards at our sites to contribute to further transparency of sustainability performance throughout the Electric Vehicle (EV) value chain.

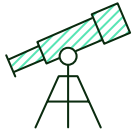


¹ As of August 2024. Number of employees includes part-time employees and excludes contractors.

² Amounts are reported in million USD.

³ Including Federal, Provincial/State Government payments and, fees & Royalties. Argentina payments also include Catamarca Province CSR Expenditures and Trust Payments and Jujuy Community Easement Agreements.

⁴ Accruals-based.



for the future

Working together to drive progress, sustainable growth and innovation for the transition to clean energy.

For decades, we have worked with our customers and communities to pioneer, collaborate and evolve together, with the goal of producing high-performance lithium compounds in a safe and sustainable manner.

To accelerate our work towards a more sustainable future, we operate laboratories where we work with industry partners to research next-generation technology for high-performance energy storage.

Our business can only be sustainable if we operate within a thriving society that benefits from a healthy environment.

LIOVIX®: Enabler of Next-Generation Battery Technology

In collaboration with Idaho National Laboratory, Arcadium Lithium studied the unique properties of LIOVIX®-based thin lithium foils.

LIOVIX® is a unique printable lithium formulation that can improve the performance of lithium-ion batteries (LIB), lithium-sulfur batteries (LSB), lithium metal batteries (LMB) and solid-state batteries (SSB), reduce manufacturing costs and enable the next generation of battery technology, all while enhancing safety and sustainability.

2023 GHG Emissions (Scope 1 & 2)

Livent GHG emissions at operations in 2023 were ~118.6kt CO₂e.

Emissions intensity was ~2.36 tCO₂e per metric ton of product produced at each site in 2023.

Allkem GHG emissions at operations in 2023 were 97.9kt CO₂e.

When also including GHG emissions associated with expansion activities, the annual total emissions were 129.9kt CO₂e.

Operational emissions intensity was 2.06 tCO₂e per metric ton of lithium carbonate equivalent (LCE) produced in 2023.

2023 Water Use

Livent total water use at operations in 2023 was ~3.42 million m³.

Water intensity was ~69 m³ per metric ton of product produced at each site in 2023.

Allkem total water use at operations in 2023 was ~0.95 million m³.

When also including water use associated with expansion activities, the 2023 total was ~1.67 million m³.

Operational water intensity was ~20 m³ per metric ton of lithium carbonate equivalent (LCE) produced in 2023.

Additional ESG metrics with supporting information are available in our [full report](#).

Applying our Investment in ILiAD Technologies to Water Use

At the end of 2023, Livent acquired a minority stake in the parent company of ILiAD Technologies. The ILiAD (Integrated Lithium Adsorption Desorption) technology platform is a next generation DLE platform which offers various efficiency, flexibility and sustainability benefits.

In particular, ILiAD Technologies can offer water usage savings of up to nine times greater than the water usage required for conventional pond evaporation.

[ILiAD Technologies | Lithium](#)

