



Lead (Battery) Responsible Sourcing Initiative

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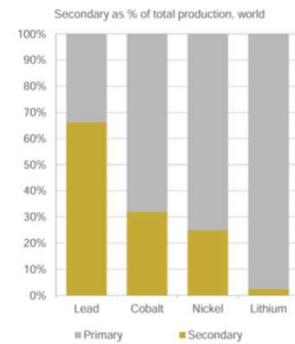
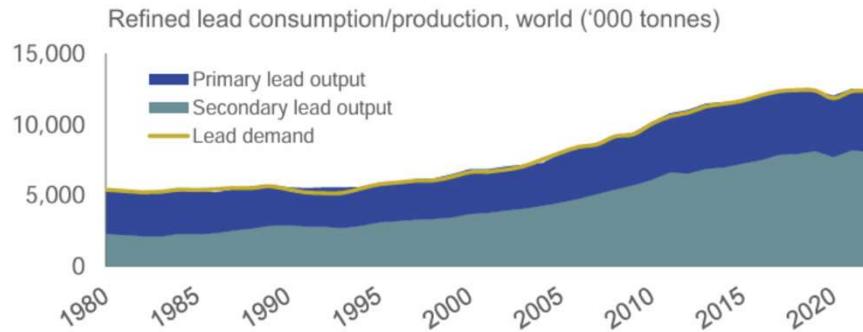
Our Members: ILA





Recycled lead dominates

Consumption needs almost always met by production

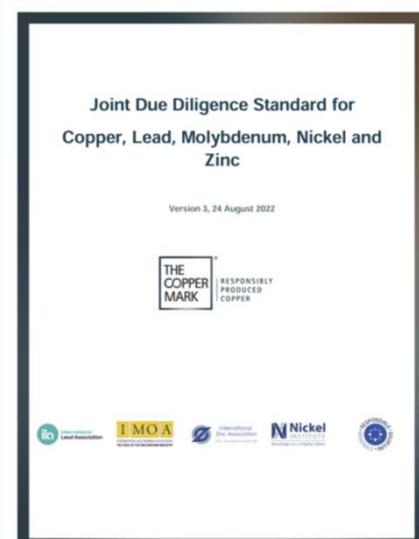


Source CRU 2023



Need for Responsible Sourcing Initiative for Secondary Lead Production

- The Joint Due Diligence Standard enables companies to comply with the London Metal Exchange (LME) [Responsible Sourcing requirements](#)
- Focus on primary metal value stream and material obtained from recycled sources currently not in scope
- Countries that have deficit of lead production from domestic sources to meet demand are increasingly looking to procuring recycled lead from other regions to provide raw materials for their domestic battery industry





Poor Recycling Practices

- Unlike other metals it is poor recycling practices, rather than sourcing primary material, that results in environmental pollution and adverse health impacts of lead
- UNICEF/Pure Earth estimate that in many LMICs up to **50%** of lead-acid batteries are processed informally with up to **30K** active sites active
- Transboundary shipment of lead recovered from ULABs in these countries to regions with high demand for raw material for battery production and can offer financial encouragement for poor recycling practices

TOP TEN LIST BY DALY
(DISABILITY-ADJUSTED LIFE YEAR)

RANK	INDUSTRY	DALYS
1.	Lead-Acid Battery Recycling	4,800,000
2.	Lead Smelting	2,600,000
3.	Mining and Ore Processing	2,521,600
4.	Tannery	
5.	Industrial	
6.	Industrial	
7.	Artisanal	
8.	Product	
9.	Chemical	
10.	Dye Indu	



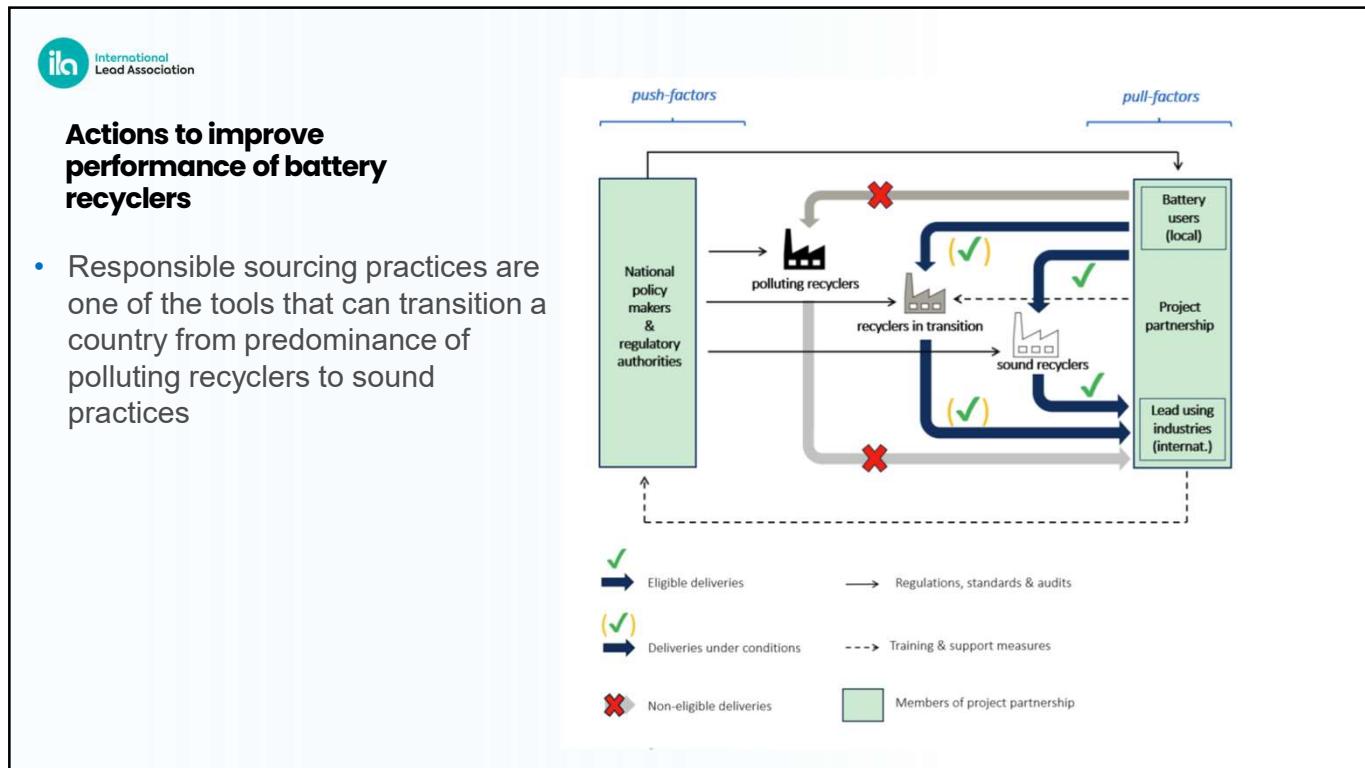
Transboundary Shipment of Recycled Lead

- In 2023 the USA imported 365,000 metric tons of Lead (and 609,000 metric tons of spent lead acid batteries [source: US Geological Society])
- Majority from neighbouring countries [Mexico, Canada] but:
 - ~17,000 tons of Pb from Nigeria
 - ~7,000 tons of Pb Ghana

TABLE 10
U.S. IMPORTS FOR CONSUMPTION OF UNWROUGHT LEAD, BY COUNTRY OR LOCALITY^{1,2}

Country or locality of origin	2022 ³		2023		January-August
	January-December	January-August	July	August	
Argentina	274	274	—	—	—
Australia	106,000	51,400	21,100	—	13,400
Brazil	3,960	3,960	539	—	3,010
Cambodia	181	101	—	—	—
Canada	172,000	131,000	10,300	3,700	135,000
China	64,500	64,500	—	—	5,070
Colombia	291	291	175	—	—
Congo (Brazzaville)	—	—	—	—	374
Congo (Kinshasa)	1,160	1,160	—	—	—
Ecuador	5,070	6,200	548	350	4,180
Germany	—	—	—	6	6
Ghana	6,880	3,680	742	1,290	6,710
Hungary	62	29	—	—	—
India	2,330	2,310	197	39	1,070
Indonesia	407	407	—	—	—
Kazakhstan	11,500	11,500	10,900	—	38,600
Korea, Republic of	12C,000	77,400	3,200	16,400	87,300
Mexico	87,800	58,300	6,020	6,150	45,500
Netherlands	—	—	5	—	5
Nigeria	26,000	19,800	4,820	3,410	16,800
Norway	6	—	—	—	—
Pakistan	14,300	10,800	—	—	—
Panama	390	300	—	—	—
Peru	1,510	918	—	54	199
Russia	8,750	8,750	—	—	—
Singapore	(4)	(4)	—	—	—
South Africa	945	500	—	—	40
Spain	675	675	—	—	—
Sweden	6	(4)	—	—	3
Taiwan	423	—	—	—	748
Thailand	—	—	92	—	460
Turkey	—	—	—	—	18
United Kingdom	11,200	10,600	547	100	5,090
Venezuela	136	109	110	386	602
Total	651,000	465,000	59,500	41,300	355,000

¹Zero.





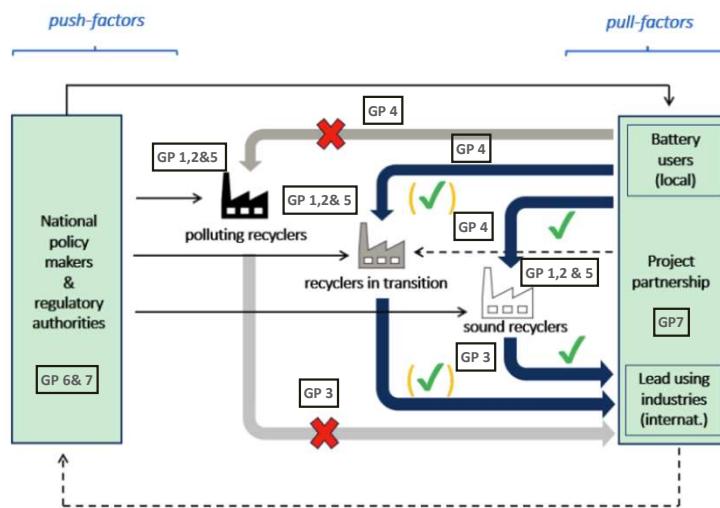
Lead Battery 360°-Guiding Principles

Companies participating in the programme commit the following Guiding Principles:

1. Support responsible battery manufacturing and recycling by placing environmental health and safety excellence at the heart of our operations.
2. Promote the sound management of lead exposure and emissions by setting continuous improvement targets and sharing best practices.
3. Adopt responsible sourcing policies for lead containing materials, seek to identify risks in the supply chain, and use our influence to promote best practices for EHS performance in suppliers' operations.
4. Minimise the environmental impact of our products by encouraging the development of programmes that ensure effective collection, transportation and environmentally sound recycling of used lead batteries.
5. Adopt business practices that consider the communities impacted by our operations, respect the human and labour rights of our employees and work against corruption in all its forms.
6. Proactively engage key stakeholders in an open and transparent manner.
7. Partner with key stakeholders and government agencies to share our expertise and promote environmentally sound recycling of lead batteries in low and medium-income countries.



Lead Battery 360°-A solution to driving responsible lead battery value chains



GP1= Health, Safety & Environment Management
GP 2= Lead exposure & emissions
GP3= Responsible sourcing
GP 4= Producer responsibility
GP5 = Community and worker relations
GP 6= Transparent communications
GP7= Best practice sharing



International Lead Association

Assurance Framework

- To allow manufacturing sites to be able to demonstrate that they are delivering actions supporting the Guiding Principles we have developed an **Assurance Framework**
- Each guiding principle is described by a series of **“performance expectations”**
- Allows ability to seek **site audit and independent verification**
- **Voluntary and open to any site** seeking to demonstrate responsible production practices
- On track to **open the Assurance Framework to members in Q4 2024**

Lead Battery 360°-Assurance Framework



CERTIFIED MEMBER:

To make a LB 360 “certified participant” claim, participants are required to be independently assessed and achieving a performance rating of **‘Meet’** for critical PE or **‘Partially meet’** with PIP for others

The full assessment process needs to be completed within 12 months of signing a Letter of Commitment.



International Lead Association

Lead Battery 360°-Performance expectations for Responsible Sourcing

(a) Responsible Sourcing Policy. Document, regularly review and communicate publicly and to suppliers a Responsible Sourcing Policy for *lead-containing materials*, articulating the company's environmental, social, and governance requirements for suppliers, including with respect to sourcing from Conflict-Affected and High-Risk Areas (Performance Expectation (b)) and lead exposure and emissions, endorsed by the Board and senior management, and anchored in key purchasing functions and processes.

(b) Sourcing from Conflict-Affected and High-Risk Areas (CAHRAs). Conduct risk-based due diligence in line with the recommendations of the OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas to identify, assess, and where relevant address risks associated with the extraction, trading, handling, and export of minerals from CAHRAs. For companies in scope, adopt and implement the Joint Due Diligence Standard for Copper, Lead, Nickel, and Zinc.

(c) Environmental, Health and Safety Performance of Suppliers – Lead Exposures and Emissions. Collect information on suppliers' policies and control measures to minimize occupational lead exposure and site lead emissions. Suspend or discontinue engagement with suppliers who fail to meet the Company's standards of environmental, health & safety performance as defined in the Company's Responsible Sourcing Policy (Performance Expectation (a) or continue to perform below regulatory requirements after reasonable efforts have been made to encourage improvement.

(f) Supplier Engagement. Communicate and engage with significant suppliers to promote responsible business practices and adoption of relevant Principles of the LB 360 Code and use influence to share practices and build capacity for continuous improvement, with a focus specifically on occupational lead exposure and site lead emissions.

(d) Sourcing of Used Lead-Acid Batteries (ULABs), Battery Components (paste and plates) and Other Lead Containing Scrap. Implement a system of control and transparency (for example, a traceability or chain of custody system or the identification of upstream actors in the supply chain) and ensure, as a minimum, that suppliers meet applicable regulatory requirements and that compounds are not sourced from informal battery breakers.

(e) Sourcing of Lead Bullion and Refined Lead. Implement a system of control and transparency (for example, a traceability or chain of custody system or the identification of upstream actors in the supply chain) and ensure, as a minimum, that suppliers meet applicable regulatory requirements, and that lead is not sourced from informal lead smelters.

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OUR INDUSTRY'S SUPPORT FOR WORK IN LMICs



Training



SRI SUSTAINABLE
RECYCLING
INDUSTRIES

Standard Operating Procedures for
Environmentally Sound Management
of Used Lead-acid Batteries

December 2021

Good practice guidance
documents

In-country advocacy supporting policy
and legal framework development

Trade analysis

Health, Safety and Environmental
Performance Report on
Success Africa Ghana Ltd.
Using the Benchmarking
Assessment Tool (BAT)

Assessment based on a facility
inspection on 29.07.2022

Site auditing



Want more information ?

- Website has been developed to allow interested parties to find out more about the programme
- <https://www.leadbattery360.org>

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Lead Battery 360°
The Program

Lead Battery 360° is a global initiative to promote and recognise good practices in lead battery value chains, from lead mining through to lead battery manufacturing and recycling.

Lead Battery 360°

ABOUT US

A Global Alliance

Lead Battery 360° is a global programme established by four associations representing the lead and lead battery industries - the International Lead Association (ILA), Battery Council International (BCI), the Association of European Automotive and Industrial Battery Manufacturers (EUROBAT) and the Association of Battery Recyclers (ABR) - to unlock the power of lead batteries for a sustainable future. Lead Battery 360° champions best practices in lead mining, lead production, lead battery manufacturing and recycling, and by encouraging responsible practices along the entire battery value chain through supply chain management and product stewardship.





Thank You

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