

Presentation overview

This presentation gives key information for potential participants in the upcoming **GBA Battery Passport Operational Trials.**

It includes an overview of the Global Battery Alliance (GBA) Battery Passport and milestones achieved to date, describes the purpose, goals and parameters of the Operational Trials, introduces the sustainability Battery Benchmarks, and sets out the core value proposition of engagement in the Operational Trials for participating companies.

The Operational Trials are a **major milestone** in the realisation of the GBA Battery Passport, and underpin the GBA's vision of sustainable battery supply chains powering a just and equitable clean energy transition.

Organisations wishing to learn more about the Operational Trials should contact secretariat@globalbattery.org.



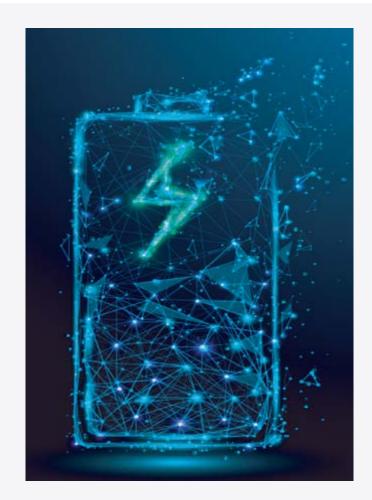


GLOBAL BATTERY ALLIANCE BATTERIES FOWER NO SUSTAINABLE DEVELOPMENT

About the Global Battery Alliance

Who we are

- The world's largest precompetitive multi-stakeholder partnership, convening over 150 partners across the battery value chain from mining to recycling with stakeholders from civil society, international organisations and academia
- Bound by 10 Guiding Principles and a shared vision and mission to scale a sustainable, responsible and circular battery value chain by 2030 through collective action
- Uniquely positioned to build common understanding on diverse stakeholders' expectations on sustainable batteries
- Setting the global benchmarks for transparency and accountability in battery production and use under the umbrella of our flagship Battery Passport programme.



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GBA members and supporters

PUBLIC ORGANISATIONS

Aalto University Action Pour l'Education et la Defense des Droits Humains (APEDDH)

Batteru Associates

Bundesministerium für wirtschaftliche Zusammenarbeit und Entwicklung (BMZ) Cornell Atkinson Center for Sustainability

Drexel University

EITI

European Bank for Reconstruction and

Development (EBRD)

FBICRC

GFI (Green Finance Insitute)

GIZ (Deutsche Gesellschaft für Internationale

Zusammenarbeit)

Government of British Columbia

Government of the Republic of Zambia Harvard Kennedy School (Jane Nelson)

Investissement Québec

International Trade Centre (ITC)
Ministry EAE Germany (VDI\VDE)

National Physical Laboratory Natural Resources Canada

NYU Stern (Michael H. Posner)

OECD

Polish Chamber of E-Mobility Development

Propulsion Quebec

Sabancı University Nanotechnology Research and

Application Center

The Faraday Institution

The International Institute for Sustainable

Development (IISD)

The New York Climate Exchange

UC Davis

UL Research Institute

UNECA

UNEP

UNICEF

UNITAR

University of Geneva (Dorothée Baumann-Pauly)

World Economic Forum (WEF)

White & Case

World Bank Group

Xiamen University (Lin Bogiang)

NGOs & FOUNDATIONS

Alliance for Responsible Mines

China EV100 Calstart

Climate Works Foundation

Columbia Center on Sustainable Investment (CCSI)

CSR Europe

Council on Energy, Environment

and Water (CEEW)

Engineers Without Borders

Canada Enviu

EUCOBAT

Federation of international Mining and Mineral Activities (FAB)

Fundacion Chile

GAHP

GST

International Women in Mining Centro de Movilidad Sostenible

(CMS) Pact

Pure Earth

Rainforest Foundation Norway

Resolve

Responsible Mica Initiative

Rocky Mountain Institute (RMI) SEDI Nigeria

Tallgrass Institute
The Flectric Mission

Transport & Environment

Walk Free WBCSD

World Resources Institute (WRI)

ASSOCIATIONS

ECGA

International Lithium Association (ILiA)

Nickel Institute

Cobalt Institute

Responsible Battery Coalition Responsible Business Alliance

SAE International

TüV

TECHNOLOGY PARTNERS

Circularise Circulor

Glassdome Minviro Ltd

VistaNover

Governance Solutions Group

Unbox NBX BV BNL Supplies B.V.

ReSource

Engie
Ernst & Young
Euro Manganese
EVE Energy
FinDreams Battery

Cornex New Energy Co., LTD.

DENSO Automotive Deutschland GmbH

AESC Ordos Co., LTD

Analo American

Finnish Minerals Group
FUCHUANG NANJING

GLC Recycle Glencore

Gotion High-tech Groupe Renault

Henkel

3KEYS

BASE SE

Botree

CALB

CATL

FNFI

Clarios

Electroder

Hitachi High-Tech Europe Huayou Recycling Technology Hyundai Motor Europe Technical

INDUSTRY & BUSINESSES

Center GmbH

IIED

Impact Facility IndustriAll

Jiangsu Skutech Industrial Internet

Komatsu

LG Energy Solution

Marubeni Microsoft

Midtronics B.V.

Nouveau Monde Graphite Panasonic ENERGY Co., Ltd

REPT BATTERO

Rio Tinto Rude

Samsung SDI

SGS-CEC New Energy Technology
Shenzhen Precise Testing Technology

Siemens Energy Siro Energu

SK tes

SQM Lithium Europe NV

Sunwoda Tesla Inc. Umicore

UP Catalyst Volkswagen AG Volvo Group

Xiamen Hithium Energy Storage

Technology Co., Ltd.

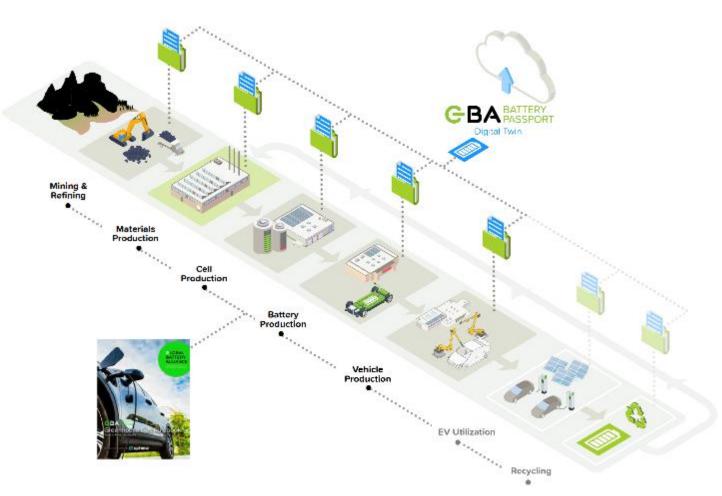
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The GBA Battery Passport

The Battery Passport vision is to develop globally harmonised, comparable performance expectations for responsible, circular and just battery value chains.

Accelerate the scaling of circular, responsible and just battery value chains by:

- Establishing a global battery passport
 ecosystem, including harmonised sustainability
 performance expectations for batteries.
- 2. Making **company efforts** measurable, trusted and comparable.
- 3. Tracking and rewarding **improvement actions** across the value chain with a comprehensive ESG score for consumers.





Do you know what you need to know about your battery?

Batteries power the clean energy transition, but...

... is the supply chain resilient?

... what are the supply chain impacts on people and planet?

... is the battery designed for circularity?

The GBA is developing answers







Better supply chain data for risk identification and management Harmonised measurement and scoring of sustainability performance

Battery design data for assurance of recyclability



Innovative decentralised data model



Consensusbased multistakeholder system to measure sustainability



Crossrecognition to interpret and benchmark sitelevel sustainability certifications



Comprehensive scoring system for comparison at a glance



Trustable claims based on 3rd party assurance

Key deliverables of the Battery Passport:



Battery-level and facility-level sustainability certification



Tools and data for due diligence and EU Batteries Reg. compliance



A sustainable battery pledge for financiers and procurement

Data gathered from mine & recycler to battery maker

















Outcome

Companies throughout the battery supply chain incentivised and rewarded for progressive sustainability gains



What have we achieved so far?

Since our founding in 2017, the GBA has been working with our growing membership to:

2019 - Define a **common vision** for a sustainable battery value chain

2022 – Develop the **foundational rulebooks** for the passport

2023 - Launch the **world's first battery passport** proof of concept

2024 - Launch the largest pre-competitive effort by cell-manufacturers to report against harmonized metrics capturing 80% of global EV battery market share

2025 - Launch the **GBA Battery Benchmarks**



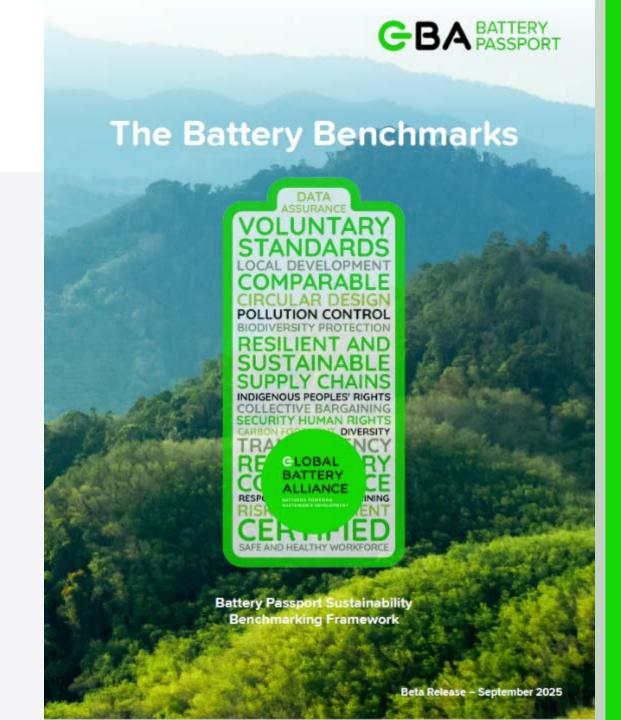
GLOBAL

BATTERY

Launched on 25th Sept 2025

The GBA Battery Benchmarks

- First-ever global sustainability benchmarks for batteries, developed with over 150 leading organisations representing the battery value chain
- Covering 18 ESG issues aligned with international regulations (e.g. EU Batteries Regulation and OECD guidance for mineral due diligence and responsible business conduct)
- Data assurance guidelines to ensure shared data can be trusted
- Our update Greenhouse Gas rulebook (V2.1) to calculate the battery carbon footprint
- A major milestone on the road to a fully operational Battery Passport certification in 2027

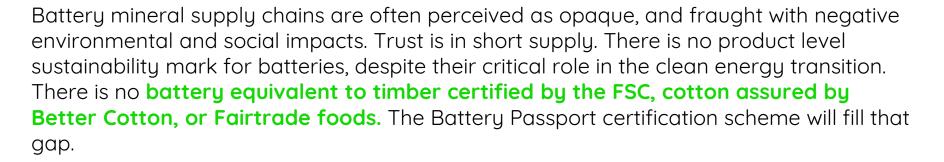




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What industry challenges will the Battery Passport Operational Trials address?







Many sites in the battery mineral supply chain seek to showcase sustainability performance, build stakeholder trust, and harmonise sustainability efforts. However, the reporting and standards landscape is complex. **The Battery Passport provides interoperation, comparability and assurance.**



Companies in scope of the **EU Batteries Regulation** are under pressure to deploy **compliant** battery passports by 2027 and demonstrate ESG due diligence throughout their supply chains. The GBA Battery Passport is part of the solution.



Digital product passports can enhance supply chain transparency and resilience, increase operational efficiency, and help meet regulator expectations for critical mineral tracking in the EU, the US, China and beyond. But it's hard to move from theory to practice. The Operational Trials offer a pre-competitive testing ground.



Key activities for participants in the Operational Trials:



Reporting against the GBA Battery Benchmarks and GHG Rulebook: the **only** global and comprehensive set of harmonised benchmarks to assess sustainability of batteries and their supply chains, and battery carbon footprint, developed through a **consensus-based multistakeholder process**.



Automated recognition of voluntary sustainability standards in the supply chain, within a **harmonised** sustainability performance measurement system.



Trialling third-party assurance mechanisms, ensuring that reported data is independently verified, **enhancing stakeholder trust**.



Creation and exchange of digitally-signed datasets and credentials, including implementation of the **United Nations Transparency Protocol** extension for battery passports, and the option to use GBA-affiliated **digital wallet technology**.



Self-assessment of readiness for EU Batteries Regulation compliance.



Attainment of prototype sustainability certification on physical batteries, and prototype site-level certification for facilities in the supply chain.

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Interoperation and collaboration

The GBA Battery Passport is a technology-agnostic framework. We emphasis pre-competitive collaboration and interoperability.



The GBA is the registered extender of the **UN Transparency Protocol** for battery passport data exchange. This open protocol allows for broad interoperability and decentralisation.



An GBA-ITC collaboration will support the Battery Passport Operational Trials. Key elements include digital signing of reports and credentials, and a data gateway based on UNTP, to upload and share reported data with selected parties.

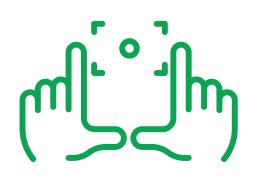


The open data architecture adopted by the Battery Passport facilitates interoperation, including with **industry platforms** (e.g. in the automotive sector), supply chain companies' **in-house digital systems**, **certification schemes**, and **3rd party commercial solutions for supply chain engagement**. Interoperation will be tested in the Operational Trials.





Key parameters of the Operational Trials



The **mineral scope** of the Operational Trials will build on, but not be limited to, the four minerals specified in the EU Batteries Regulation - lithium, cobalt, nickel and natural graphite.

The **lifecycle scope** of the Operational Trials will be the cradle-to-gate production chain.

Battery **use cases** in scope of the Operational Trials include electric vehicle and e-mobility batteries, battery energy storage systems (for grid averaging, data centres, and other applications), mobile electronic devices, and beyond.

Operational Trials are scheduled to **launch at the GBA AGM**, during the week of 8th December 2025, and will run in Q1 and Q2 of 2026. Subsequent additional piloting rounds may be scheduled.

<u>Full participation in the Operational Trials is exclusive to GBA member</u> <u>companies</u> (suppliers can report against Battery Benchmarks at the invitation of a participating member company).



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About the Battery Benchmarks

- Represent the first definitive set of global metrics to assess a battery's sustainability performance for procurers, investors, and purchasers of battery products
- 🕦 Reflect the views, expectations and consensus of the entire value chain
- Anchored in international regulations and standards to reduce complexity and create comparability for battery products whilst preparing companies to respond to regulatory requirements
- Include robust data assurance rules to avoid non-credible sustainability claims and ensure GBA certification is authoritative and trusted
- Will help accelerate the scaling of responsible and circular battery value chains



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Battery Benchmarks: ESG modules

Harmonised,
comparable supply
chain risk
management Assurable via
existing standards

In partnership with:









Core Modules

1. Risk and Sustainability Management Systems

2. Supply Chain Due Diligence

3. Stakeholder Engagement

Environment



Energy And GHG

- 4. GHG Emissions*
- 5. GHG Reduction And Energy Efficiency

Environmental Safeguards

- 6. Biodiversity Loss
- 7. Pollution
- 8. Waste Management
- 9. Mine Waste Management
- 10. Natural Resource Stewardship

Circularity

- 11. Circular Design**
- 12. Resource And Material Efficiency

Social & Economic



Human Rights

- 13. Child Labour
- 14. Forced Labour
- 15. Use of Security Forces

Labour Rights

- 16. Employment Terms
- 17. Freedom Of Association And Collective Bargaining
- 18. Occupational Health And Safety
- 19. Diversity And Non-discrimination

Social And Community Engagement

- 20. Community Impacts
- 21. Indigenous Peoples' Rights***

Local Economy

- 22. Local Economic Development
- 23. Sourcing From Artisanal And Small-scale Miners

Product Cost

24. Total Cost Of Ownership

Governance



Compliance & Good Governance 25. Business integrity & transparency

26. Product quality and safety

Legend:

ESG modules corresponding to risk categories of Annex X of the EU Battery Regulation (2023) – coverage in 2025 Beta release

ESG issues corresponding to Annex II risks of the OECD minerals auidance

Other salient ESG issues – coverage in 2027 framework

... and more!

^{*}Please refer to the GBA's GHG rulebook v.2.1

[&]quot;Circular design to be revised for the 2027 edition

^{***}Indigenous Peoples' rights under drafting and multi-stakeholder consensus building

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Battery Benchmarks reporting modules example: Pollution

- ✓ Organised according to the OECD RBC guidance 6-step framework
- ✓ Level A anchored in compliance with EU Batteries Regulation

ISSUE MODULE: Pollution

Due diligence step	Benchmark level	The facility
3. Cease, prevent and mitigate adverse impacts of pollution	Level A	Deploys on-site controls to monitor and address potential and actual negative impacts from air, land and soil, noise, vibration and water pollution on people and the environment, using a risk-based approach and following a materiality assessment. Has an emergency spill/leakage response plan.
	Level AA	Implements the mitigation hierarchy to address actual and potential impacts of pollution in line with set reduction targets.
	Level AAA	⁴² Reduces light, radiation and odour pollution levels below baselines defined using credible frameworks.
4. Track implementation of pollution prevention and reduction and	Level A	Establishes monitoring procedures and protocols to track the implementation of action plans to prevent, reduce, and mitigate adverse impacts from air, land and soil, noise, vibration and water pollution, measured against baseline levels. Documents and monitors negative impacts of pollution on affected stakeholders and affected communities.
results	Level AA	Engages affected stakeholders and community representatives, alongside qualified managers and workers and their representatives and/or trade unions, to track monitoring implementation and review results.
	Level AAA	Monitors pollution levels and impacts to stakeholders, including light, radiation and odour pollution , to ensure they remain below the baseline levels.
5. Communicate and report on pollution	Level A	Publicly discloses potential and actual impacts from land and soil, noise, vibration and water pollution originating at the facility , along with planned actions, progress, and results related to pollution .
impacts, risks and improvement actions	Level AA	Publicly discloses spill/leakage impact assessments and any subsequent legal actions or financial penalties. Engages stakeholders in participatory monitoring and consults affected stakeholders during any post-incident internal reviews.
	Level AAA	Makes light, radiation and odour pollution data available to affected stakeholders.
6. Provide for and cooperate in remediation of adverse pollution	Level A	⁴³ Establishes a grievance mechanism available to internal and external stakeholders to lodge complaints related to pollution . Remediates negative impacts from air, land and soil, noise, vibration, and water pollution and spills/leakages in consultation with affected stakeholders .
impacts caused or contributed to	Level AA	For residual significant impacts from pollutants arising from operational activities, when all other measures have been taken to prevent, minimise, and rectify such impacts, implements remedial steps in consultation with affected stakeholders.
	Level AAA	Remediates negative impacts from light, radiation and odour pollution in consultation with affected stakeholders .



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ISSUE MODULE: Pollution

Due diligence step	Benchmark level	The facility
3. Cease, prevent and mitigate adverse impacts of pollution	Level A	Deploys on-site controls to monitor and address potential and actual negative impacts from air, land and soil, noise, vibration and water pollution on people and the environment, using a risk-based approach and following a materiality assessment. Has an emergency spill/leakage response plan.
	Level AA	Implements the mitigation hierarchy to address actual and potential impacts of pollution in line with set reduction targets.
	Level AAA	⁴² Reduces light, radiation and odour pollution levels below baselines defined using credible frameworks.

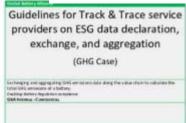
✓ Battery Benchmarks are mapped against existing regulations and standards, creating an efficient, harmonized framework

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	Due diligence step	Benchmark level	EU Batteries Regulation (2023)	EU Conflict Minerals Regulation (2017)	EU Forced Labour Regulation (2024)	Canada Supply Chain Forced & Child Labour Act (2023)	ASI Performance Standard v3.1 (2023)ccxlvii	CopperMark/RMI RRA Criteria Guide (2023)c⇔viii	IRMA Standard for Responsible Mining (2018)	RMI Facility Standard 2025	TSM (2021-2024)	Copper Mark JDDS (2022)	RMI RMAP All Minerals (2022)	RMI Supply Chain Due Diligence Plus (2025)	ICMM Mining Principles (2024) ^{ccxlix}	EITI Standard (2023)	GRI 101 - Biodiversity (2024)	CCCMC Due Diligence Guidance v2 (2022)	CCCMC Mining Investment Social Guidelines (2017)	GISTM (2020)	ISO 05100: Energy management systems	ISO 14001: 2015 Environmental Management Systems (EMS)	ISO 26000 Guideline for Social Responsibility	ISO 45001 OHS (2018)
	3. Cease,	А	×				х	х	x	х	x											х		
•	prevent and mitigate adverse impacts of	АА					х	х	х	x												x		
	pollution	AA A																						

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Battery carbon footprinting





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The <u>GBA Greenhouse Gas (GHG) Rulebook</u> is widely recognised in industry as the **'gold standard' for battery carbon footprint calculations**.

The Rulebook emphasises **interoperability**. It is fully compatible with **EU Batteries Regulation** reporting (including future alignment with planned Delegated Acts), while also supporting company efforts to reach strategic decarbonisation goals.

The GBA approach to GHG promotes and incentivises the use of primary data, augmented with high-quality secondary data, throughout the supply chain.

The Rulebook is accompanied by an innovative system of data exchange, allowing product carbon footprint data to be aggregated along the supply chain while **safeguarding commercial confidentiality**.



Data Assurance and Verification underpin the trustability of claims

- ✓ Veracity of the data contained in reports.
- ✓ Adherence to data exchange rules and a recognised Implementation Profile.
- ✓ Adherence to Battery Passport rules for data aggregation and scoring.



Verified documents

Documents provided to evidence existence of sitelevel policies and management systems that fulfill BP benchmarks.

Verified implementation

1st or 2nd party assessment documents provided, demonstrating implementation of site-level policies and management systems that fulfill BP benchmarks.

Verified effectiveness

3rd party assessment against a voluntary sustainability standard is evidenced, assuring the effective implementation of site-level policies and management systems that fulfill PB benchmarks.

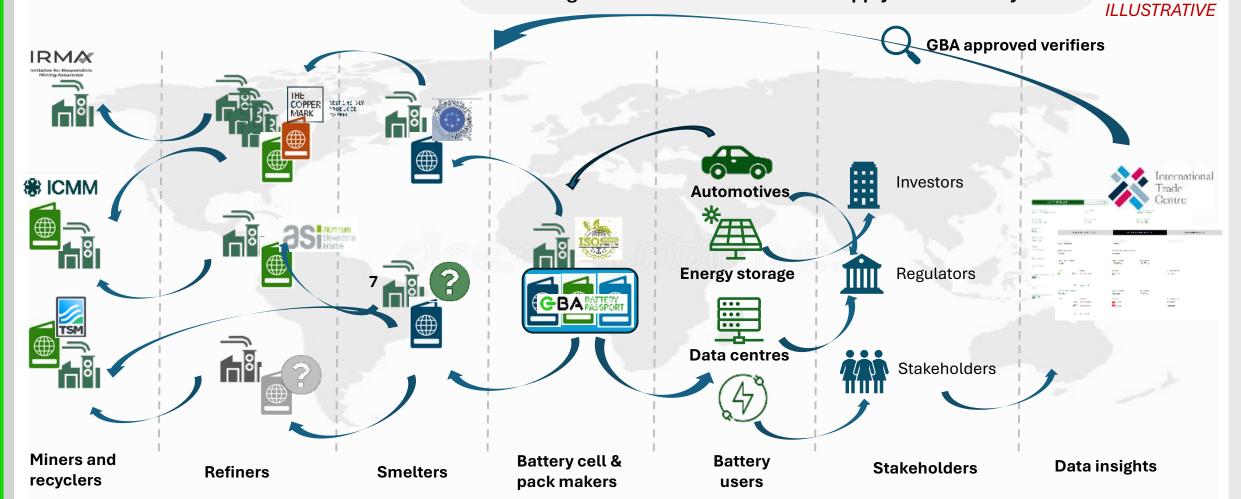
How does it work? Gathering insights with the Battery Passport

GBA Battery Benchmarks will generate:

- ullet Verified due diligence data for regulatory compliance $oldsymbol{\sqrt{}}$
- ullet Trusted sustainability claims for customers and investors $oldsymbol{\sqrt{}}$
- Material and battery traceability $\sqrt{}$
- ullet Transparent engagement with stakeholders $oldsymbol{\sqrt{}}$

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All underpinned by innovative Digital Product Passport technology, for exchange of verified data across the supply chain and beyond.





The GBA Gateway – an upcoming digital tool for Battery Passport data exchange

The GBA's partnership with the International Trade Centre (ITC) aims to support companies participating in the GBA Battery Passport by:

- Developing a **free-to-use**, **global public good tool** hosted by ITC, **removing technological barriers for smaller companies** in the value chains and allowing their participation in the GBA Battery Passport ecosystem;
- Developing the minimum necessary **technical infrastructure for implementation partners** in the GBA Battery Passport ecosystem, supported by capacity building of operators in the battery supply chain;
- Creating an 'insights' platform providing global policymakers, civil society representatives and others with additional knowledge resources to help ensure sustainable, resilient global battery value chains.







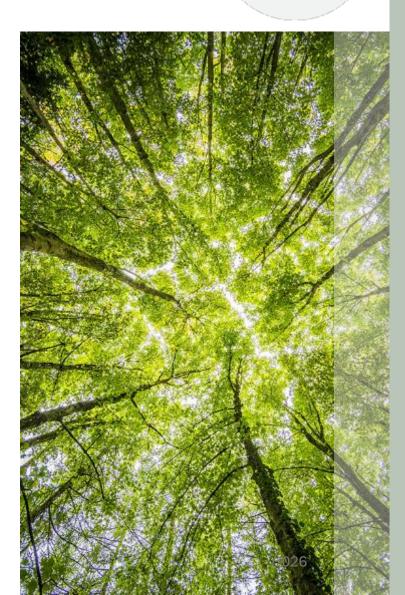


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Membership benefits

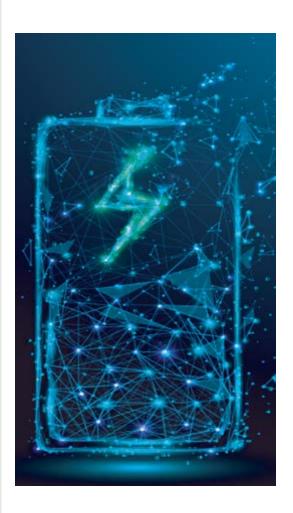
In addition to full participation in the Operational Trials, GBA membership offers companies the following benefits:

- As a member, relevant colleagues in your organisation gain access to our multi-stakeholder working groups to:
 - o Exchange with your peers on the evolving regulatory and policy landscape and co-design sustainability performance expectations to support global harmonization.
 - o Navigate the complexity in the voluntary standards landscape, establishing applicability across the value chain and at the product level.
 - o Exchange with solution providers and value chain partners on questions of data sharing, data privacy, and data assurance, together addressing and resolving challenges linked to interoperability and verification.
 - o Review and revise the GBA's Greenhouse Gas rulebook as the definitive global guidance to calculate the battery carbon footprint, working towards harmonisation of requirements and more.
- Become a candidate for our **governance bodies**, including technical Steering Committees and the Board of Directors
 - o Help determine the strategy and workplan of the world's foremost multistakeholder alliance in the energy storage space.
 - o **Cement your leadership reputation:** participate in high-level member-only events, connect with industry figures and secure speaking opportunities.
- Join our events and networking opportunities
 - o All members gain access to our Annual General Meeting to take stock of our progress, confirm our governance and input into the strategic direction.
 - o Benefit from exclusive networking opportunities with representation across the full battery industry eco-system.





The Operational Trials will offer battery manufacturers the opportunity to pilot all core aspects of the GBA Battery Passport, positioning themselves to take a lead role in the rollout of the Battery Passport in 2027. Specific opportunities include:



Prototype product-level **sustainability certification** of batteries, linked to data dashboards through Digital Prodcut passport technology.

Enhancing capacity to conduct **supply chain due diligence** against globally-recognised and highly credible **sustainability benchmarks**.

Progress toward **compliance with EU Battery Regulation** requirements for due diligence, supply chain mapping and battery carbon footprinting.

Robust comparative assessment of suppliers' sustainability performance, including recognition and measurement of attainment through **existing facility-level sustainability standards**.

Benefit from a **pre-competitive sandbox environment**, to establish data sharing and collaboration with the full battery supply chain.



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Benefits for OEMs

The Operational Trials will offer battery purchasers the opportunity to engage their full battery supply chain, paving the way to meet associated regulatory requirements, demonstrate the sustainability of their batteries to stakeholders, and manage supply disruption risk. Highlights include:

- Prototype product-level **sustainability certification** of procured batteries, linked to data dashboards (e.g. through a QR label).
- Piloting interoperability with leading industry platforms and in-house solutions, for battery passporting through the battery lifespan.
- Rich underlying datasets, for supply chain due diligence against globally-recognised and highly credible sustainability benchmarks, that are comparative and assured by robust 3rd party verification.
- Progress toward **compliance with EU Battery Regulation** requirements for due diligence, supply chain mapping and battery carbon footprinting.
- Mapping of the supply chain and facility-level sustainability performance, recognition of existing facility-level sustainability standards and management of reputation and supply disruption risks.







Benefits for miners, refiners and material producers

The Operational Trials will offer companies in the battery mineral supply chain (including miners, recyclers, refiners, material and component manufacturers) the opportunity to assess their sustainability performance against international best practices, gain stakeholder recognition and identify clear next steps to further enhance facility-level sustainability. Highlights include:

- Prototype facility-level recognition for strong sustainability performance, with labelling that will be widely recognised and trusted by stakeholders.
- Creation of digital credentials for sustainability reporting, using a highly interoperable framework that recognises facilities' existing voluntary sustainability standards, reflects core regulatory requirements and benchmarks global stakeholder expectations.
- Product carbon footprinting that supports facilities, and their purchasers downstream, to meet strategic decarbonisation goals and fulfil regulatory carbon reporting requirements.
- Enhanced market visibility and branding opportunities, based on trusted and verified sustainability claims.





The GBA Battery Passport will require a range of inputs from 3rd party assurance providers; both during the 2025/2026 Operational Trials, and in the scaled-up Battery Passport from 2027 onward. These inputs will include:



- Desk-based verification of facilities' reporting against the GBA Battery Benchmarks for sustainability performance.
- Desk-based verification of facilities' implementation of GBA Battery Passport data aggregation, scoring and data exchange rulebooks.
- Verification of facilities' carbon footprint calculations in line with the GBA GHG Rulebook.
- Product-level certification of batteries for sustainability performance.
- Potential facility-level certification for sustainability in the battery supply chain.

3rd-party assurance providers are being recruited to participate in the 2025/2026 Operational Trials, to **co-design**, **elaborate and pilot** these verification and certification functions. Participation can be pro bono, or on a negotiated cost basis with participating companies.

Over 80% of global cell manufacturing capacity was represented in the 2024 pilots. In the Operational Trials, assurance providers gain access to networking and business development opportunities, through Working Groups, the GBA AGM (each December) and other forums.

The GBA is positioned to become the foremost global scheme for battery sustainability assurance, representing a significant new commercial marketplace for assurance providers.



9th-10th December Brussels, Belgium

Global Battery Alliance, Annual General Meeting 2025

9-10 December | Brussels, Belgium

- GBA's flagship annual event
- Exchange insights on sustainability, regulation, and markets
- Network with industry, government, and civil society



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