

Facts

Project Title:
HiQ-LCA. High-Quality Life Cycle Assessment for Battery Industry

EIT RawMaterials Topic:
Design of products and services for the circular economy
Total Budget: 3.5 Mio €

Duration: 2023-01-01 - 2025-12-31

Coordinator: European Lithium Institute eLi

» Website: <https://hiq-lca.eu>
» LinkedIn: <https://www.linkedin.com/showcase/hiq-lca-project/>

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HiQ-LCA project team

Twelve well-known European enterprises, research institutions and universities build-up the HiQ-LCA project team. All HiQ-LCA partners are involved in several other project activities along the battery value chain, which provide additional data sources and synergies. HiQ-LCA has thus a unique position to develop new LCA database methodology and services. Thereby, the project contributes to EIT's goals of making the European mobility sector more environmentally friendly. It is funded by EIT RawMaterials.

Bureau de Recherches Géologiques et Minières, BRGM, France
CellCircle UG (haftungsbeschränkt), Germany
ecoinvent, Switzerland
Eramet SA, France
European Lithium Institute eLi, Belgium (coordinator)
Fraunhofer-Gesellschaft zur Förderung der angewandten
Forschung e.V. (Fraunhofer ISC and Fraunhofer IST), Germany
Ghent University, Belgium
Leiden University, Netherlands
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HiQ-LCA

High-Quality Life Cycle Assessment for Battery Industry

Batteries' transparent environmental footprint

- The EU has set the goal to have zero emissions from cars – [do you know](#) every carbon emission source?
- Batteries have one of the largest contributions to an electric vehicle's environmental footprint – [do you know, what](#) makes the difference in battery production?
- It's a great economic opportunity to establish green and CO₂-efficient battery value chains – [do you know, how](#) to conduct a reliable evaluation of the environmental impact of the processes involved?
- Life cycle assessment (LCA) is based on data – [do you know, how](#) reliable, representative and up-to-date these data sets really are?
- The new European Battery Regulation requires the carbon footprint for each battery – [do you know, how](#) to calculate it?

High-quality life cycle assessment! That's what we aim for...

- Creating improved, representative, reliable and transparent LCA datasets for a holistic view on battery value chain.
- Distinguishing different technologies with regard to environmental impacts throughout supply chains, manufacturing and recycling processes.
- Providing information for manufacturers, OEMs and decision makers as a service to improve environmental performance of battery production and recycling.
- Quantifying environmental impacts, benchmarking, verification and certification of products.
- Enabling stakeholders to evaluate processes and resources on validated data sets.
- **WORKING TOGETHER WITH YOU TO STRIVE TOWARDS A NET ZERO MOBILITY AND ENERGY SUPPLY.**

Think wider...

- Green and circular batteries with proven low carbon footprint and responsible raw materials sourcing serve as a unique selling point for European products.
- The HiQ-LCA team will provide a unique semantic Life Cycle Inventory database dedicated to battery supply chains and advanced methods for battery-specific LCA, defined and coordinated with a large number of European companies in related projects.
- HiQ-LCA will initiate a start-up to offer future LCA tools and services on a professional, commercial basis.

How to participate actively?

- Stay tuned and get in touch with the HiQ-LCA team. Tell us your own needs regarding battery LCA.
- Send us your questions about battery LCA and its integration into your processes.
- Join our Industry Advisory Board to network with other professionals on net zero battery value chains.

