

Journey to Build up a Resilient EU-source of Lithium Hydroxide

Keliber at Battery Days, 15 September 2022

Hannu Hautala, CEO



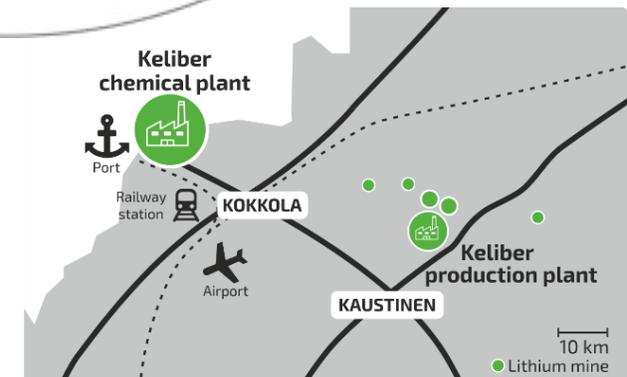
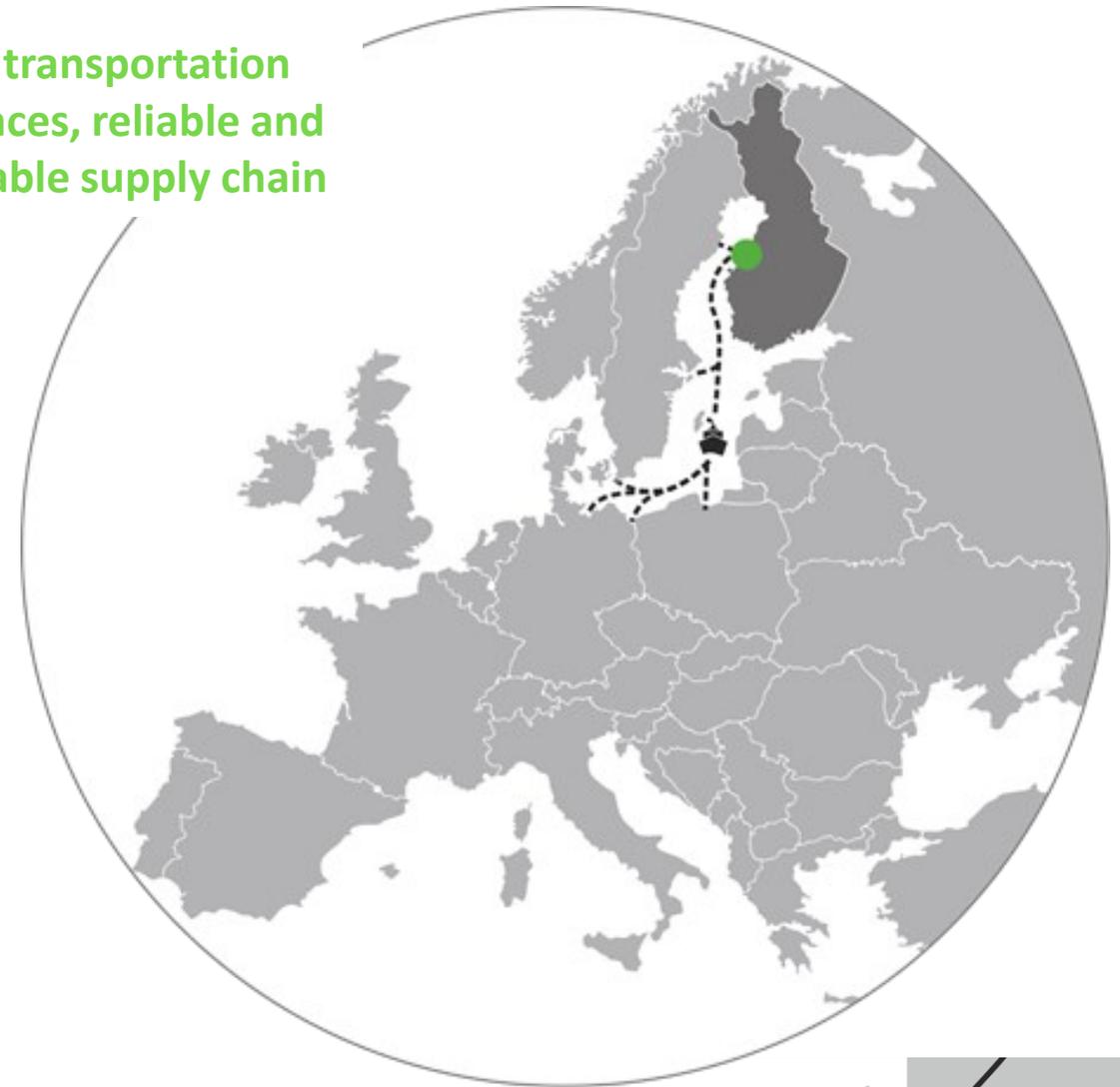
Keliber in Brief

Short transportation distances, reliable and traceable supply chain

Keliber is a Finnish mining and battery chemical company preparing **Europe's most advanced integrated production** of battery-grade lithium hydroxide. The production ramp-up is planned for the second half of 2024.

The company operates in central Finland, where it holds **several lithium deposits**, which are estimated to be among the most significant ones in Europe. The lithium chemical plant will be located in Kokkola on the coast of the Gulf of Bothnia, at a distance of 66 km from the mining area and the minerals processing plant.

For future mining and production, Keliber is committed to implementing the best available technologies and highest standards for all operations, aiming at the **smallest possible CO₂ footprint** and minimised environmental impact.



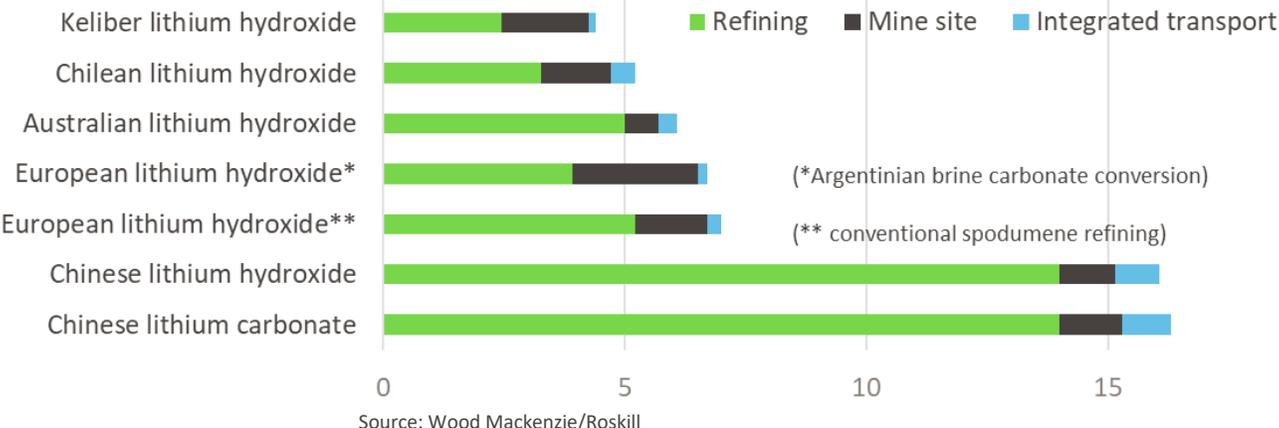
Studies Show Keliber's CO₂ Footprint among the Lowest Ones (Scopes 1 and 2)

In an analysis of seven existent or planned global lithium chemicals production routes, ending in Rotterdam, **Keliber shows the lowest emission intensity** of 4.38 tonnes of CO₂/produced tonne of LiOH.H₂O (lithium hydroxide monohydrate). The analysis was conducted by Wood MacKenzie/Roskill, and it is based on the World Resources Institute model considering the company's own production (Scope 1) and the production of purchased electricity (Scope 2).

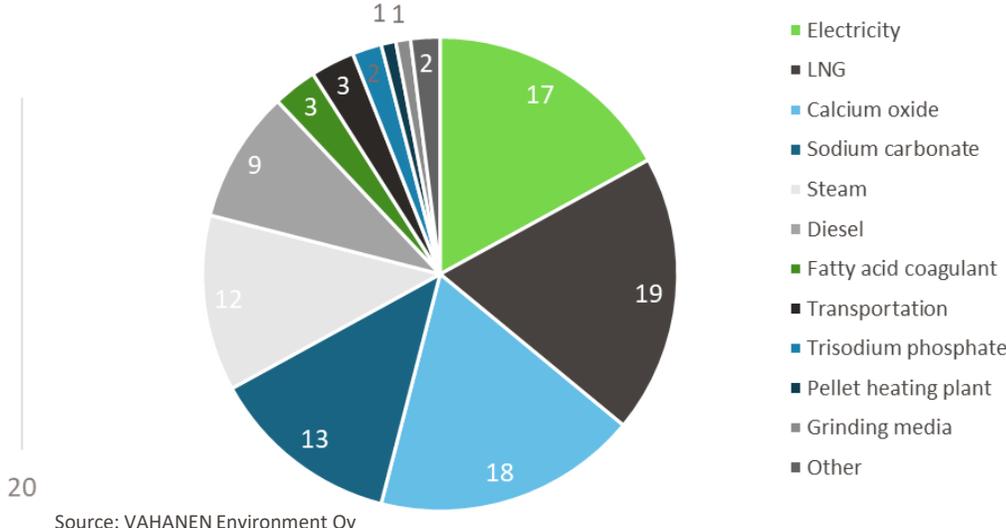
In a **life cycle assessment (LCA)**, Keliber's total carbon footprint is 10.0 t CO₂-eq/produced tonne of LiOH.H₂O. The LCA is a cradle-to-gate analysis that covers all production stages from the mine to a finished product. In addition to direct (Scope 1) and indirect (Scope 2) GHG emissions, the assessment includes Scope 3 emissions, for example process chemicals and waste management. The assessment has been prepared by Vahanen Environment Oy, a Finnish environmental consultant.

Emissions Intensity (t CO₂/t Production) by Operation Segment

The refining process accounts for over 50% of emissions for each route.



Total Carbon Footprint by Resources (%)

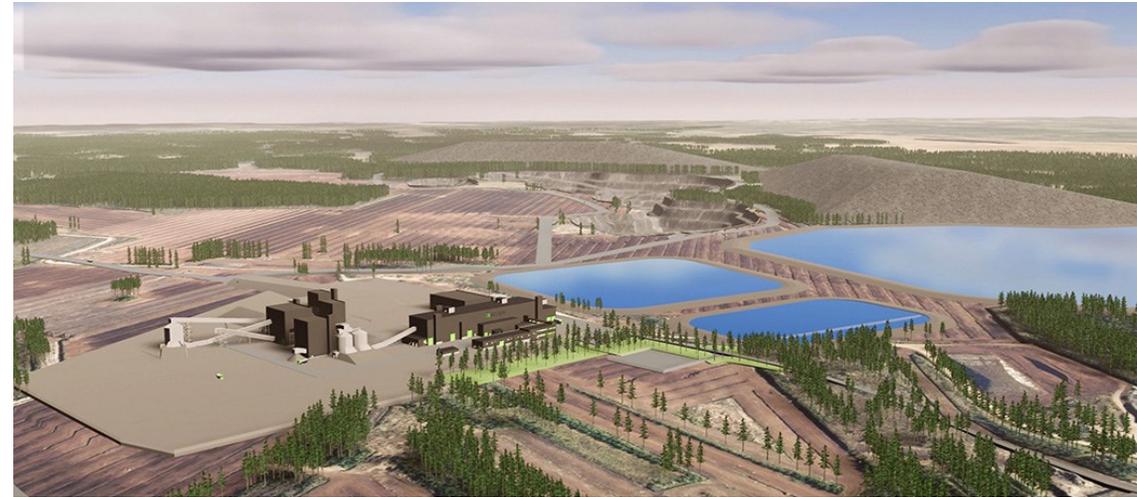




Syväjärvi
August 2022

Recent Highlights

- **Financing for the whole investment secured**; Sibanye Stillwater Limited and Finnish Minerals Group the biggest owners
- Battery-grade lithium hydroxide produced in a four-phase **test programme** based on ore from the largest deposit, Rapasaari
- Existing Ore Reserves for 16 years with significant upside potential; a **new lithium deposit** discovered
- **Definitive Feasibility Study, DFS**, published in March
- Lithium chemical plant in Kokkola granted **environmental** and **construction** permits
- Ready to kick off construction of the lithium chemical plant

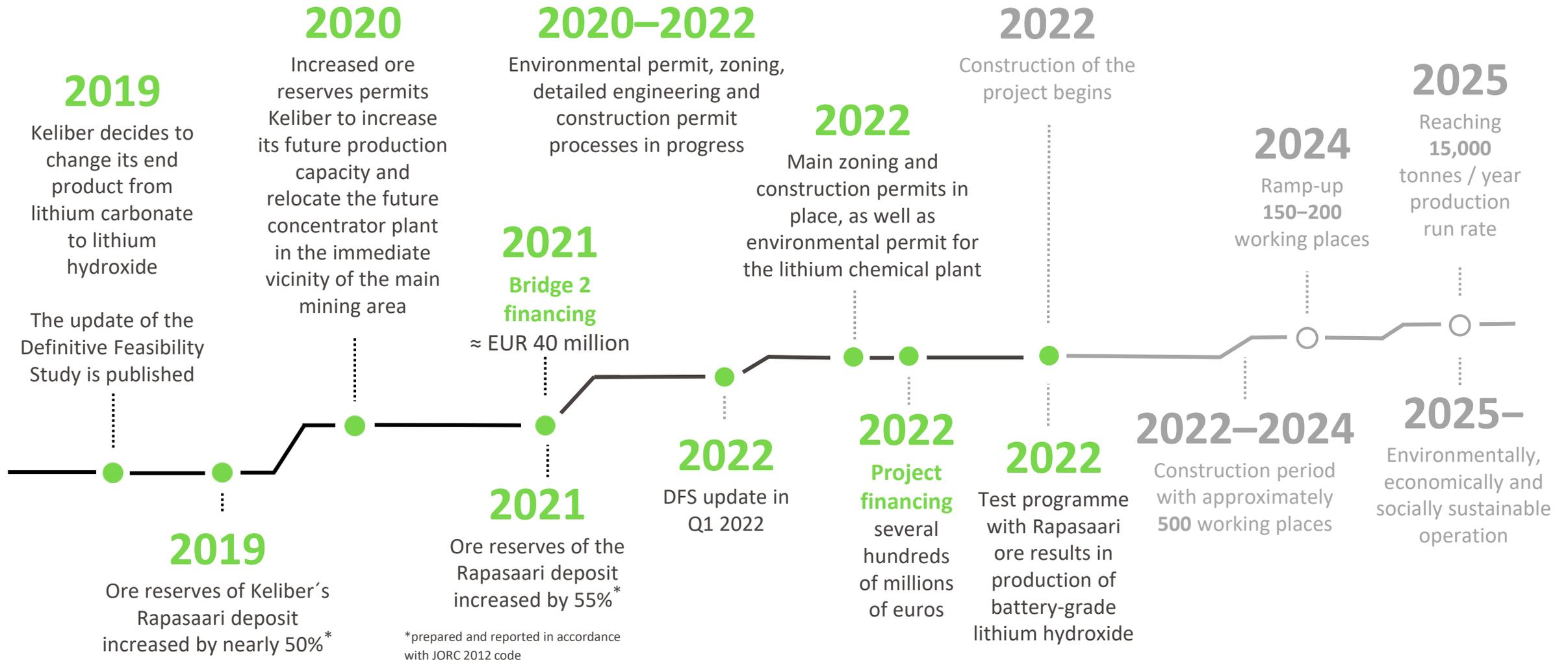


The minerals processing plant will be located in Kaustinen, next to the Rapasaari mine.



The lithium chemical plant will be located in Kokkola Industrial Park.

Project Advancing to Meet the Growing Demand



Disclaimer

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sustainable lithium from Europe