

With NAATBatt funding, NREL created the Li-ion Battery Supply Chain Database

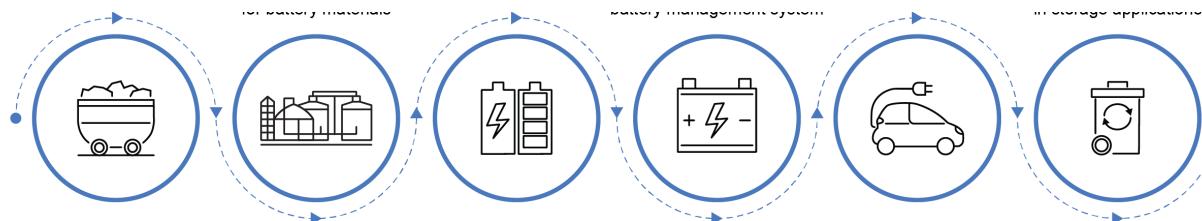
- Mining
- Materials processing
- Components production
- Cell and battery pack manufacturing
- Second use
- Recycling
- Equipment manufacturing
- Service providers
- Product distribution

Li-ion Supply Chain Database

nrel.gov/transportation/li-ion-battery-supply-chain-database

Google search: “NREL supply chain database”

- Version 1: September 2021
- Version 2: August 2022 with updates in December.
- Search function: Industry segment and product, location, company data
- NREL will be releasing updated versions regularly to capture fast-moving market developments



nrel.gov/transportation/li-ion-battery-supply-chain-database.

Manufacturing Supply Chain

- Raw Materials
- Battery Grade Materials
- Other Battery Components and Materials
- Electrode and Cell Manufacturing
- Module/Pack Manufacturing

EOL Supply Chain

Other Segment Supply Chains

- Equipment
- Service
- R&D
- Modeling and Software
- Distributors



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NAATBatt Lithium-Ion Battery Supply Chain Database

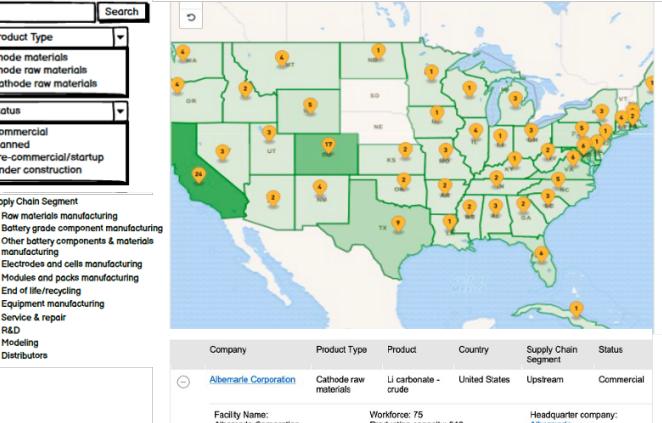
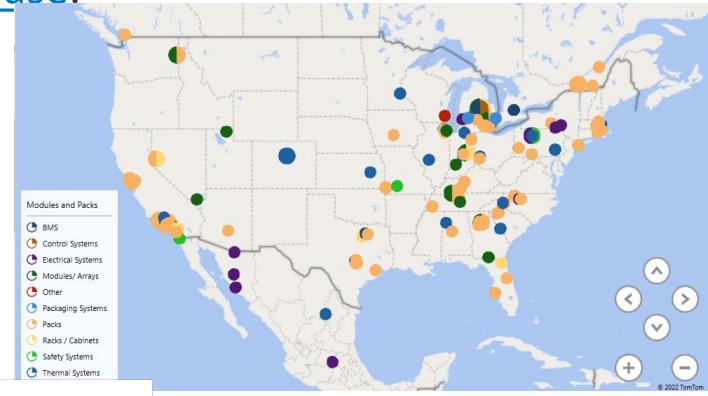
The Lithium-Ion (Li-ion) Battery Supply Chain Database is a directory of North American companies in the li-ion supply chain: manufacturing, research and development, services, end-of-life management, and product distributors.

Lithium-Ion Battery Supply Chain Database and User Guide

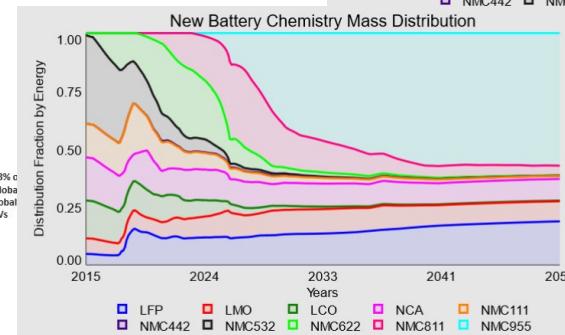
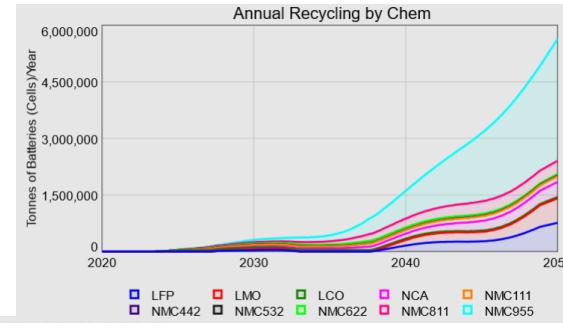
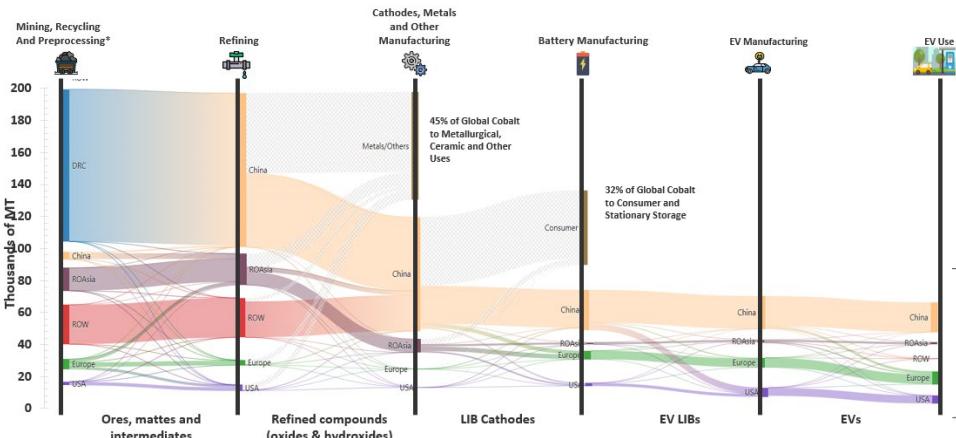
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Spreadsheet last updated September 2021

ID	Status	Segment	Company	Facility Name	Facility ID	Facility Phone	Latitude	Longitude	HQ Company	HQ Website	HQ City	Province	HQ Count	Supply Chain		
														Product Type	Status	
4	1001	Pt-EU	Upstream	Corporation Lithium	Reed Lithium-Titanium Project	401158	34.9484160	-101.0555	27.6105	Corporation Lithium	corporationlithium.com	Montreal	QC	1	Raw materials manufacturing	Commercial
5	1003	C	Upstream	Glecore	Uganda Mine	477865	31.9527800	42.218	28.8263	Glecore	glecore.com	Near	Zig	1	Battery grade component manufacturing	Planned
6	1004	C	Upstream	Glecore	Raglan Mine	477851	49.972-78.00	48.218	78.8263	Glecore	glecore.com	Rear	Zig	1	Other battery components & materials manufacturing	Planned
7	1005	C	Upstream	Glecore	Glecore Sudbury (NO)	POW120	705-630-2761	46.5869	40.7939	Glecore	glecore.com	Sud	Zig	1	Electrodes and cells manufacturing	Planned
8	1006	P	Upstream	Jewels Mining	Mah-Cobalt Project	DNA	41.139-53.0408	45.1307	31.3435	Jewels Mining	jewelsglobal.com	Winnipeg	MB	1	Modules and packs manufacturing	Under construction
9	1007	C	Upstream	Lundin Mining	Capo Norte	DNA	200-339-7020	41.7102	47.9300	Lundin Mining	lundinmining.com	Toronto	ON	1	End-of-life/recycling	Planned
10	1008	C	Upstream	Lundin Mining	Humboldt Mill	498184	306-339-7020	46.4841	47.8192	Lundin Mining	lundinmining.com	Toronto	ON	1	Equipment manufacturing	Planned
11	1009	PC-SU	Upstream	Manganese Energy Corp.	Battery Hill Project	534-852-1814	41.2104	-47.9328	Manganese Energy Corp.	manganeseenergycorp.com	Saint-Léonard	QC	1	Service & repair	Planned	
12	1010	PC-SU	Upstream	Manganese Energy Corp.	Winnipeg Mine	534-850-1814	46.2004	-97.4337	Manganese Energy Corp.	manganeseenergycorp.com	Saint-Léonard	QC	1	R&D	Planned	
13	1011	PC-SU	Upstream	Manganese Energy Corp.	Luc Bouchard Project	534-850-1814	46.5492	-75.5943	Manganese Energy Corp.	manganeseenergycorp.com	Saint-Léonard	QC	1	Modeling	Planned	
14	1012	C	Upstream	Mitsui	Mitsui Baymine	DNA	20.6337	-74.9447	50.1600	Mitsui International Corp.	mitsui.com	Toronto	ON	1	Distributors	Planned
15	1013	C	Upstream	Mitsui	Mitsui Baymine	DNA	20.6337	-74.9447	50.1600	Mitsui International Corp.	mitsui.com	Toronto	ON	1	Quinton Lithium Project - IV	Planned



2021 Global Cobalt Supply Chain Flows



LIBRA – Lithium-Ion Battery Resource Assessment Model



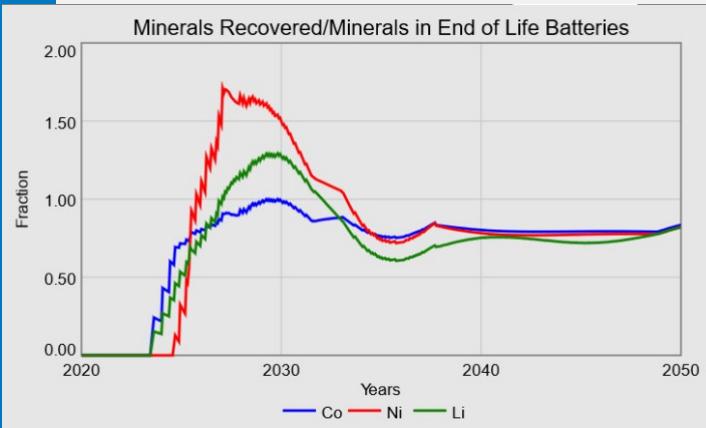
LIBRA is a system-dynamics model that evaluates the macro-economic viability of the battery manufacturing, use, and recycling industries across the global supply chain under differing dynamic conditions

LIBRA Evaluates the Impact of Dynamic Conditions on the Growth of Battery Manufacturing and Recycling

Key Question: Under what conditions will a resilient lithium-ion battery supply chain develop?

As the lithium-ion battery industry grows, the supply chain will be affected by market demand and prices, government investments, and global manufacturing.

LIBRA assesses the *dynamic* flows of materials, growth in manufacturing, and recycling.



- Cathode & Battery Manufacturing in US and elsewhere
- Recycling: Hydro, Pyro, and Direct

- Number of manufacturing and recycling plants built over time
- Profit of manufacturing and recycling plants over time

