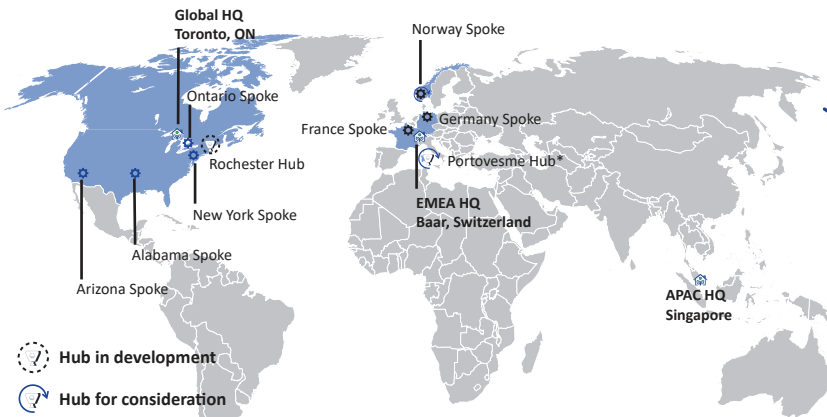


## An Overview

Li-Cycle's patented and proven commercial Spoke & Hub Technologies™ enables up to a 95% recycling efficiency rate and returns valuable battery-grade materials found within lithium-ion batteries and battery manufacturing scrap into the supply chain. Li-Cycle's commitment to sustainability is core to its business model, as our processes have minimal solid waste streams, minimal wastewater discharge, and low air emissions. At Li-Cycle, we continue to scale globally to grow in lockstep with our customers and position ourselves as the world's preferred lithium-ion battery recycling partner.

## Global Lithium-ion Battery Recycler



- Hub in development
- Hub for consideration
- Spoke in development
- Operational Spoke
- Spoke in the pipeline

**Founded: 2016**  
**Co-Founders:** Ajay Kochhar and Tim Johnston  
**Number of Employees:** 450+

**Global Headquarters:** Toronto, Ontario, Canada  
**EMEA Headquarters:** Baar, Switzerland  
**APAC Headquarters:** Singapore

### Lithium-ion Battery Material Processing Capacity per Year

Operational Spokes	Spokes Under Development
<b>Ontario:</b> 5,000 tonnes	<b>Germany:</b> 30,000 tonnes
<b>New York:</b> 18,000 tonnes	<b>France:</b> 10,000 tonnes
<b>Arizona:</b> 18,000 tonnes	<b>Norway:</b> 10,000 tonnes
<b>Alabama:</b> 10,000 tonnes	

**Rochester Hub:** Rochester, New York, USA  
 Expected to process the equivalent of approximately **90,000 tonnes**, or **18 GWh** of lithium-ion battery material per year. On track to start commissioning in late 2023.

\*Li-Cycle has signed a Letter of Intent with **Glencore**, a leading producer, recycler, and marketer of nickel and cobalt for the production of lithium-ion batteries, to jointly study the feasibility of, and later, develop a **Hub facility in Portovesme, Italy**. The site will leverage Li-Cycle's state-of-the-art and **environmentally friendly hydrometallurgical technology** and is expected to be the **largest producer of sustainable battery-grade products in Europe** with an anticipated **processing capacity of up to 50,000 to 70,000 tonnes of black mass annually**, or the equivalent of up to 36 GWh of lithium-ion batteries.

**Li-Cycle's future planned capacity across its global Spoke network is expected to be more than 100,000 tonnes of lithium-ion battery material per year.**

## Environmental Benefits

Compared with traditional mining and refining, Li-Cycle's process\* (per tonne of battery input) can:

Reduce CO <sub>2</sub> emissions by up to an overall <b>67%</b> <small>~ 117k tonnes of CO<sub>2</sub></small>	Reduce NO <sub>x</sub> emissions by up to an overall <b>89%</b> <small>~ 495k tonnes of NO<sub>x</sub></small>
Reduce SO <sub>x</sub> emissions by up to an overall <b>86%</b> <small>~ 330k tonnes of SO<sub>x</sub></small>	Reduce water usage by up to an overall <b>97%</b> <small>~ 2M cubic metres of water</small>

## Environmental Sustainability

- Minimal emissions
  - Minimal solid waste
  - Minimal wastewater discharge
- Li-Cycle's Ontario and New York Spokes have been certified for:**



Ontario & New York      Ontario      New York

Learn more at [www.li-cycle.com](http://www.li-cycle.com)

Follow us on social media:



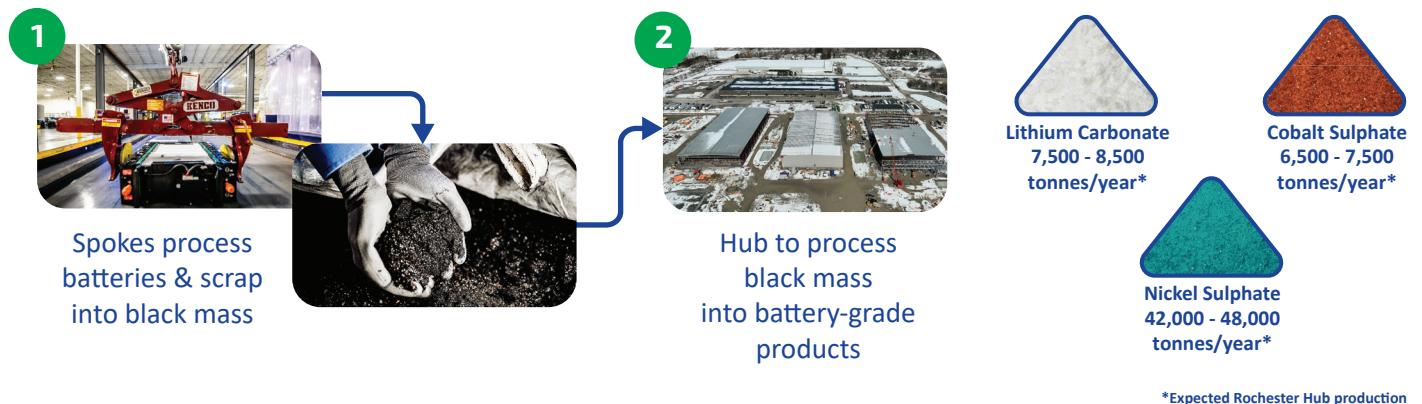
Invest  
 NYSE : LICY

## What Makes Batteries a Sustainable Choice?

- The contribution of lithium-ion batteries is essential to realizing the Paris Agreement goal of net-zero global human caused CO<sub>2</sub> emissions by 2050. Batteries enable 30% of the required emission reductions in transport and power sectors putting the world on track to meeting Agreement goals<sup>1</sup>.
- Batteries are reshaping industries that contribute the most to carbon emissions, such as transportation and energy production. Increased battery solutions are projected to provide 600 million people globally with access to clean electricity<sup>1</sup>.
- Greenhouse gas emissions can be halved in the battery value chain by 2030 while doubling their economic impact by implementing circular economy and sustainable technology strategies<sup>1</sup>.

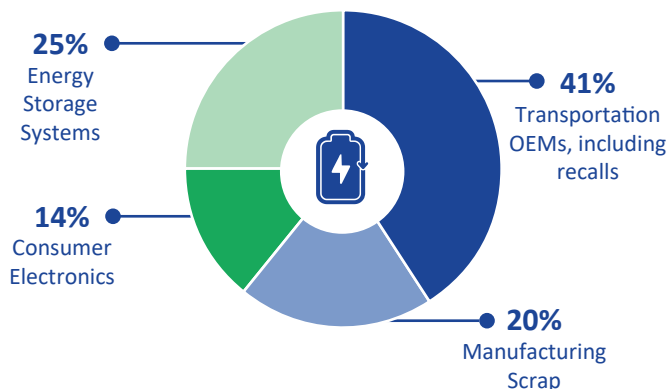
<sup>1</sup>World Economic Forum: A Vision for a Sustainable Battery Value Chain in 2030

## Integrated Spoke & Hub Network



## Battery Materials Feedstock Mix

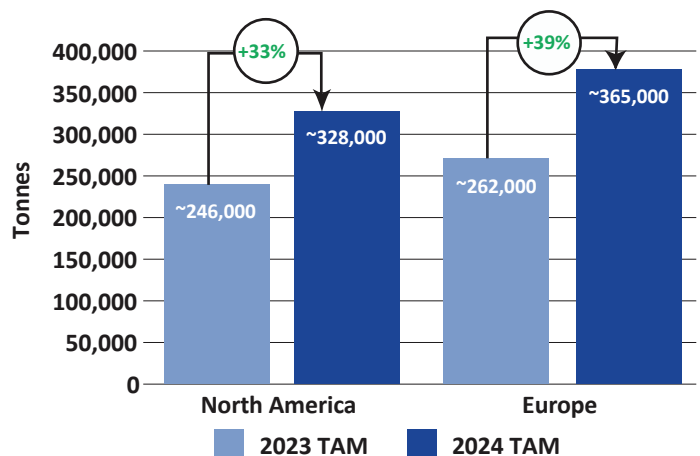
Li-Cycle's process is battery chemistry and form factor agnostic, allowing for a diverse feedstock mix.



Figures based on full-year 2022  
As measured by weight of input battery materials

## Market Potential

\*Total Addressable Market (TAM) of Lithium-ion Batteries (LIB) Available for Recycling (tonnes/year)



\*TAM = estimated LIB equivalent tonnes/year available for recycling  
\*BMI and Li-Cycle estimates for TAM forecast (as of March 2023)

Learn more at  
[www.li-cycle.com](http://www.li-cycle.com)

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