

GLENCORE

Glencore Copper North America
Recycling capabilities



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There are inherent limitations to scenario analysis and it is difficult to predict which, if any, of the scenarios might eventuate. Scenario analysis relies on assumptions that may or may not be, or prove to be, correct and that may or may not eventuate and scenarios may also be impacted by additional factors to the assumptions disclosed. Given these limitations we treat these scenarios as one of several inputs that we consider in our climate strategy.

Due to the inherent uncertainty and limitations in measuring greenhouse gas (GHG) emissions and operational energy consumption under the calculation methodologies used in the preparation of such data, all CO₂e emissions and operational energy consumption data or volume references (including, without limitation, ratios and/or percentages) in this document are estimates. There may also be differences in the manner that third parties calculate or report such data compared to Glencore, which means that third-party data may not be comparable to Glencore's data. For information on how we calculate our emissions and operational energy consumption data, see our latest Basis of Reporting, Climate Report and Extended ESG Data, which can be found on our website.

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Overview

Our smelting and refining industrial assets are designed to handle a wide range of complex materials, enabling us to use our assets to process recyclable inputs



We produce: Horne Smelter, Rouyn-Noranda



Canada's only copper smelter

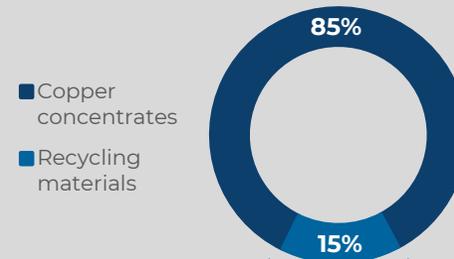
Capacity c.215ktpy copper anode

Horne processes copper concentrates and recycled materials to produce 99.1% pure copper anodes

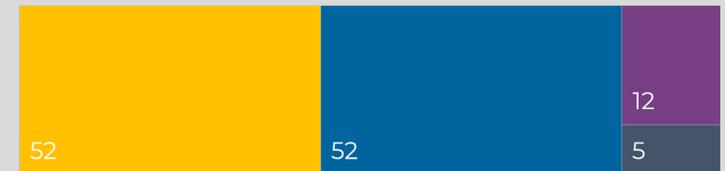
Our recycling activities began in the wake of World War II. Since then, we've become one of the world's leading recyclers of end-of-life electronics and a major recycler of batteries and battery metals

In the 1980s, we were one of the first to recover metals from end-of-life electronics. Since 1990, we have processed over one million tonnes of electronic circuits and components

Processing capacity split



Reception (gross weight kt)



- E-scrap and wires
- 93-98% Copper (piping, roofing, etc.)
- Shredded batteries
- Other recycling (slimes, copper residues, etc.)

We process: Canadian Copper Refinery (CCR), Montreal East



Canada's largest producer of refined copper

Capacity c.325ktpy copper cathode + by-products & precious metals

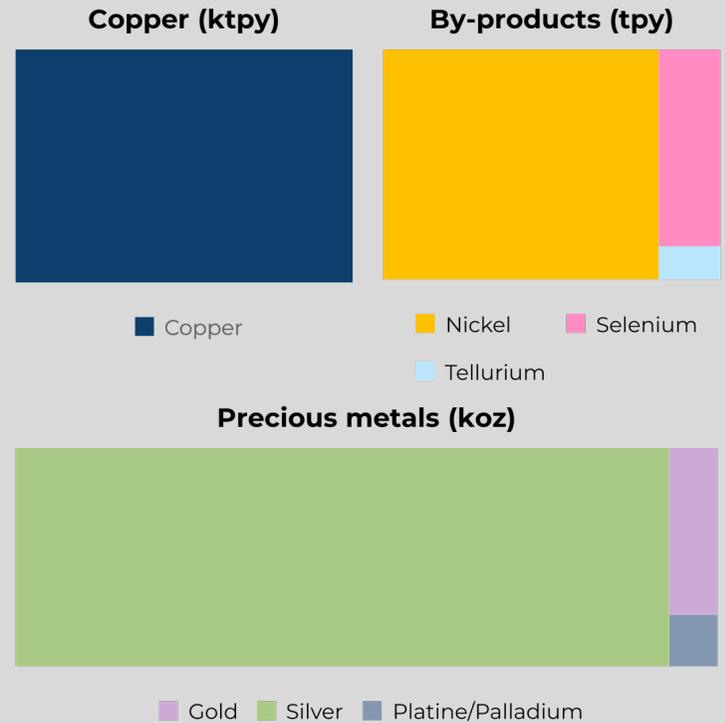
Copper anodes produced at our Horne Smelter are sent to the Canadian Copper Refinery in Montreal East to undergo an electro-refining process to make copper cathodes

This stage also recovers several products and precious metals from the subsequent treatment of anode sludge

At the end of this processing chain, we obtain 99.99% pure cathodes for the market, as well as various by-products



Production capacity



We recycle: Receiving, sampling and preparing (RSP)



North American RSP

c.123ktpy of recyclable materials

Our recycling sites are dedicated to receiving, sampling and preparing (RSP) samples of materials containing precious metals

All materials received and sampled at these sites are sent to Horne for smelting

The smelter also operates its own site for receiving, sampling and preparing recyclable materials

RSP capacity (ktpy)



■ Horne ■ Rhode Island ■ San Jose

Capability to sample and process a wide range of feeds

Our operations include extensive sampling and analytical capabilities through our reception and sampling plants as well as our onsite laboratories

Our technical capabilities are adaptable, making it possible to accurately sample and treat a wide range of complex materials



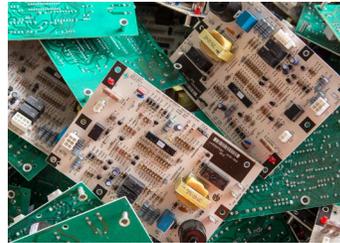
Shredded e-scrap



Fine carbon



#2 copper fine



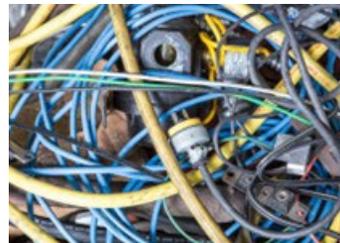
Unshredded-scrap



Shredded batteries



#2 copper course



Wires

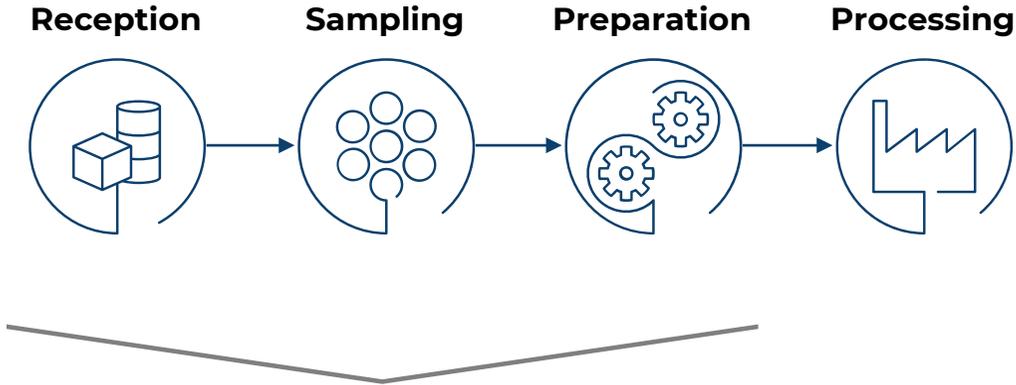


Autoshred residues



Sludge (hydroxide)

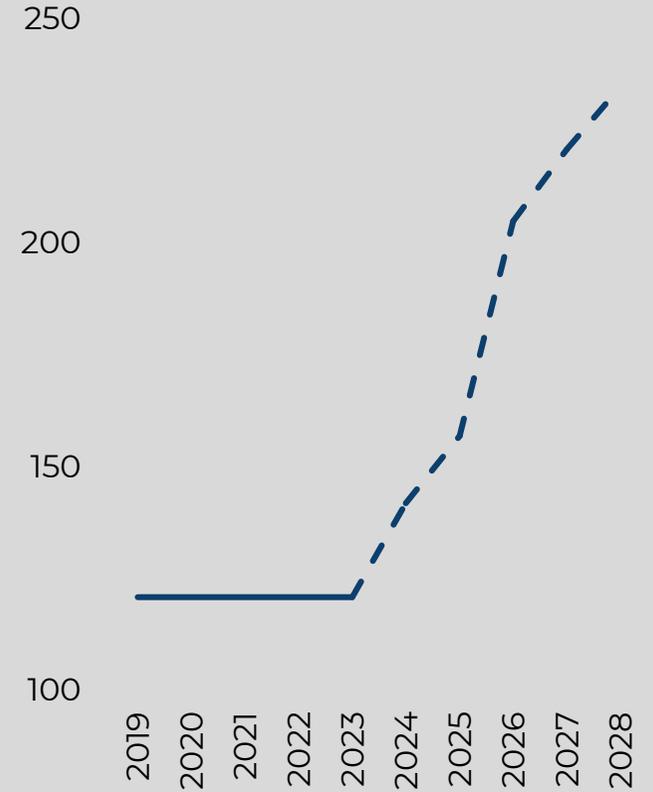
We are planning for >50% growth in capacity ...



+3 new RSP sites

- United Kingdom (Northfleet)
- United States (Arkansas)
- One new potential site to be confirmed

Planned RSP capacity (ktpy)



... along with upgrades to our East Providence RSP facility

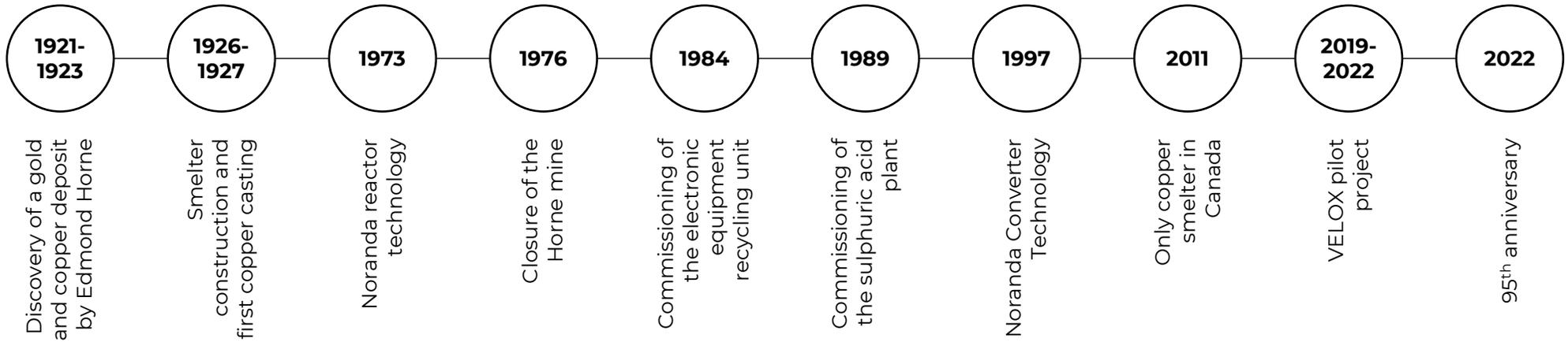
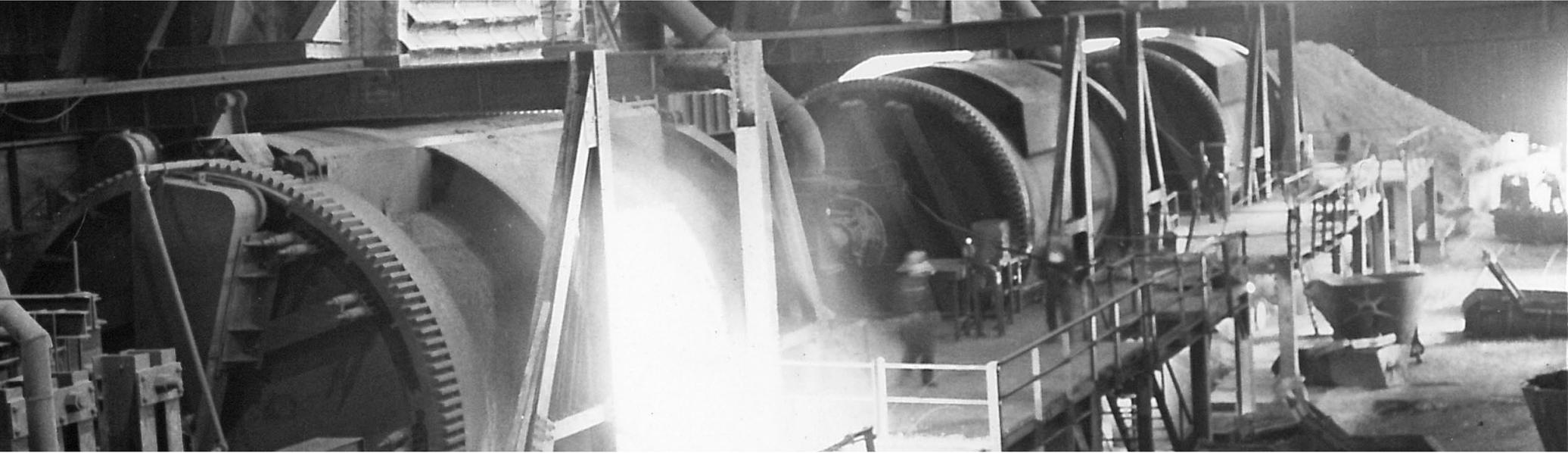
To support our North American strategy, the East Providence facility is being upgraded with best-in class technology to increase throughput to capture additional recycling market opportunities





Welcome to the only copper smelter in Canada
Horne smelter

We have a robust history of innovation in metallurgy ...



... and we are investing for the future

In 2022, we announced a major investment in the Horne Smelter to continue our journey of reducing emissions and making the plant one of the world's lowest-emitting copper smelters in the world

The Horne Smelter has been a proud part of the Canadian and Quebec mining industry for almost 100 years. This investment will help ensure we are fit for the future and can continue to be a leading metals recycler in North America.



TRANSFORM FOR THE FUTURE

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HORNE
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