

# Low Carbon and Recycled Copper



**COPPER** will play an important role in the sustainable transition to achieve the goal of the net zero CO<sub>2</sub> emissions by 2050 set by the EU. For example, the greater use of renewable energy and the electrification of society needed to combat climate change both require more copper.

## LOW-CARBON COPPER

Copper mining and smelting activities are known to generate significant amounts of greenhouse gas emissions. However, as a leading sustainability metals and mining company, Boliden is well positioned to supply a copper with a low carbon footprint. Boliden's favourable integration of own mines and smelters, located in Sweden, enables the company to produce a copper cathode with less than 1.5 kg of CO<sub>2</sub>eq emissions per kg of copper, less than half of the global average presented by the International Copper Association (ICA).

## RECYCLED COPPER

Boliden is also a strong contributor to the circular economy. The Rönnskär smelter in northern Sweden is one of the world's largest recycler of metal from electronic material, which enables Boliden to offer a copper cathode originating from 100% recycled material needed for a sustainable society.

## VERIFIED

The reporting protocol against which assurance was conducted to is the Greenhouse Gas Protocol – Product Life Cycle Accounting and Reporting Standard and reviewed against the general principles in ISO 14064-3 Standard (Greenhouse Gases – Part 3: Specification with Guidance for the Validation and Verification of Greenhouse Gas Assertions).<sup>1</sup>

<sup>1</sup> Carbon Footprint of Boliden Main Metals including Limited Assurance Statement from Intertek, December 2020 ([www.boliden.com/globalassets/operations/products/copper/green-copper/carbon-footprint-of-boliden-main-metals-2020\\_2021.pdf](https://www.boliden.com/globalassets/operations/products/copper/green-copper/carbon-footprint-of-boliden-main-metals-2020_2021.pdf))

# Boliden Green Copper offering

One of the lowest carbon footprint of any refined copper in the world



## Boliden Low-carbon Copper - $<1.5 \text{ kg CO}_2\text{eq/kg Cu}$ :

Boliden's low carbon copper is produced from copper mined in our own mines in the north of Sweden, using a clean energy. This gives the product one of the lowest carbon footprint of any refined coppers in the world. By using Boliden Low-carbon Copper, the carbon footprint of your copper products will be reduced significantly compared to other available alternatives.



## Boliden Recycled Copper - $<1.5 \text{ kg CO}_2\text{eq/kg Cu}$ :

The primary raw material for Boliden's recycled copper is used electronics. By efficiently recovering all the metals that has been circulated in society, the need for new mines can be held at a minimum. By using Boliden's Recycled Copper, you will be able to offer a 100% recycled copper product to the market.

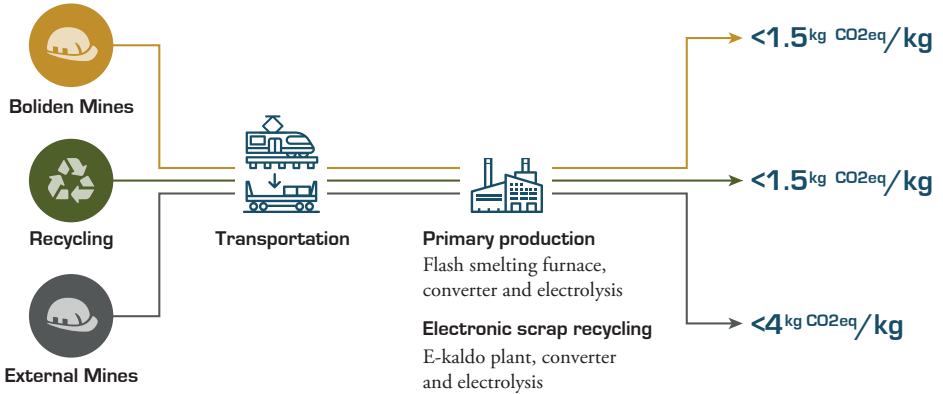
# Boliden copper production

Boliden is one of the most efficient copper producers in the world. We produce around 350 ktonnes of copper cathodes annually at our smelters, which makes us Europe's third largest producer. We produce copper from concentrates from our own mines, external mines and recycled material at our copper smelting plants in Rönnskär, Sweden and Harjavalta, Finland.



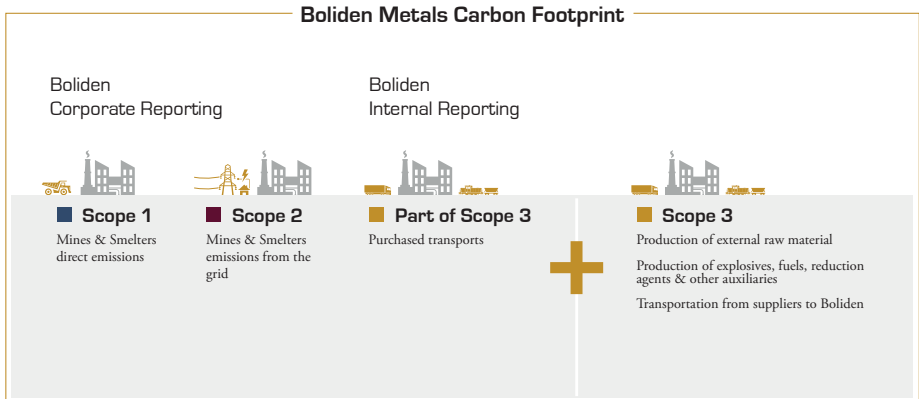
# Full transparency

Boliden's extensive calculation model gives a transparent view of the emissions throughout the value chain. The calculation model is verified by Intertek ([www.intertek.com](http://www.intertek.com)) and assures that the numbers presented are correct.



# All materials and emissions included

Boliden follows the principles in ISO 14064-3 and GHG Protocol Produce Life Cycle Accounting Reporting Standard, which is using a comprehensive methodology when calculating the CO<sub>2</sub>eq emissions, including scope 1, 2 and 3, to take into account of the emissions that are generated by third parties, such as the production of explosives and fuels used at Boliden's sites.



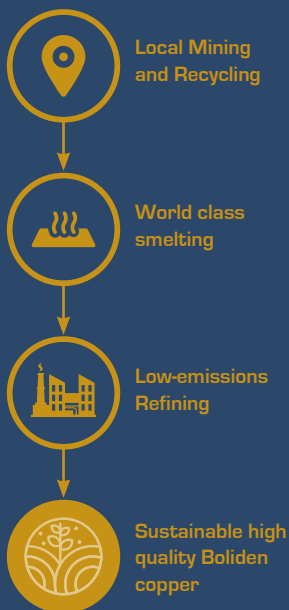
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## About Boliden

Boliden is a metals company with a focus on sustainable development. Our roots are Nordic, our market global. Our core competence lies within the fields of exploration, mining, smelting and metal recycling. Boliden has around 6,000 employees and an annual turnover of SEK 50 billion. The share is listed in the Large Cap segment on NASDAQ OMX Stockholm.

[www.boliden.com](http://www.boliden.com)

**BOLIDEN**