

Aurubis AG Metals for Progress

RGI-ICAE Best Practice Webinar:
Circular Copper for European Energy Security





“ Metals are becoming **the new oil essential** to technology, defense, and the green transition

Bloomberg

“ Our **reliance on metals has exploded**: this is not just the Iron Age, but also the age of copper, nickel and lithium

Material World

“ Metals and minerals are not just commodities; they are the **hidden foundation** on which our economies, technologies, and lives depend

National Mining Association

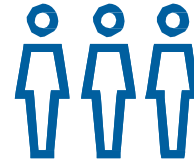
Aurubis: Who we are



Successful in
20 countries on
3 continents

> 7,200 x

passion and
engagement



160 years



of experience in the
production of non-
ferrous metals



One of the
worldwide leading
companies in
copper recycling

about **1 million t**



of recycling materials
are processed by Aurubis
on a yearly basis



different **metals**
are recovered by
Aurubis

Aurubis

Copper Products at a glance

The company, which was founded in 1866 as **Norddeutsche Affinerie AG**, is listed in the **MDAX**



The main copper product is ~ **900,000 t p.a.**
Aurubis ROD / RheinROD
From our **4 rod lines**.



More than **1 million tons** of copper cathode production from **5 tank houses** are an excellent basis for the downstream production.

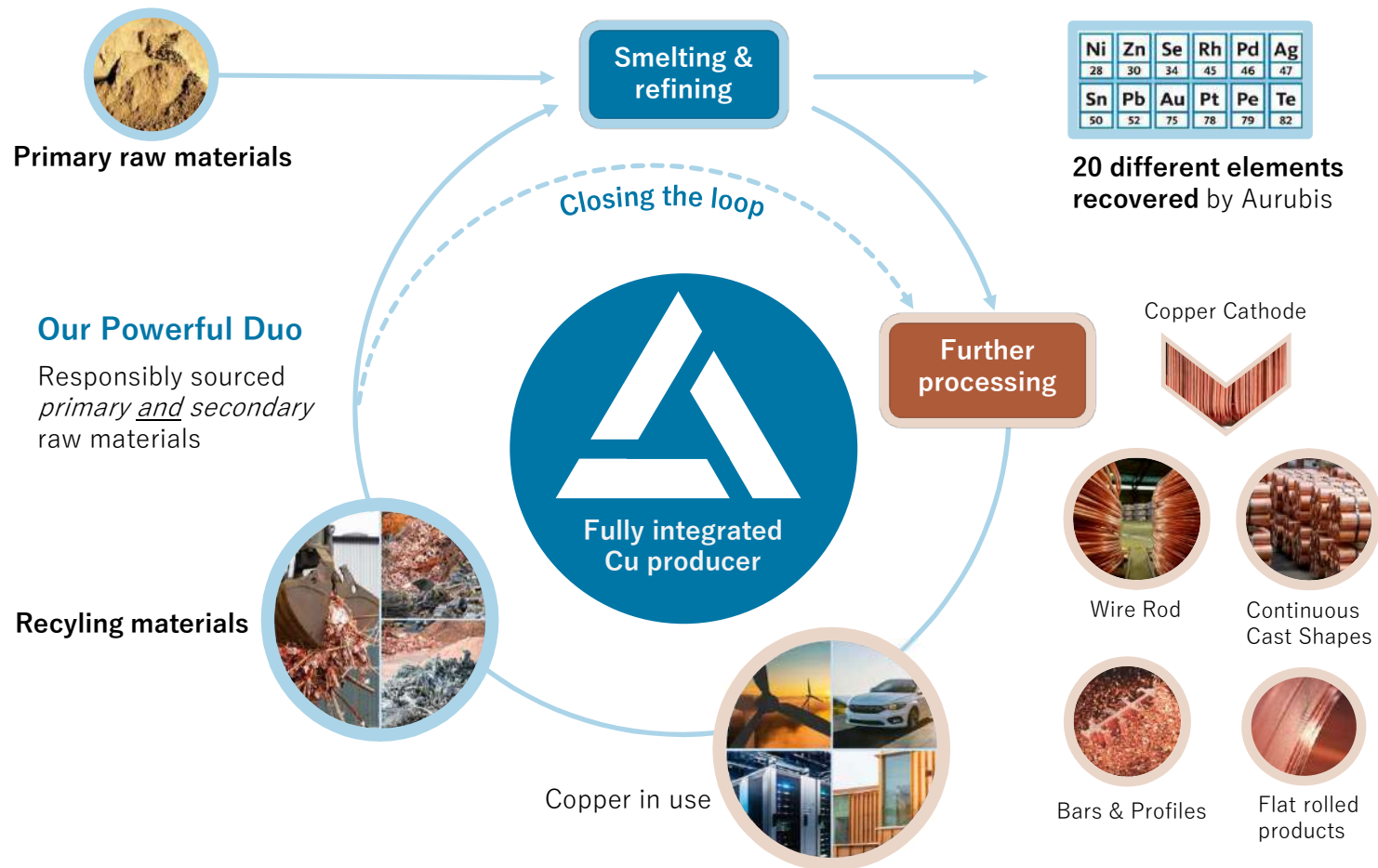


With our different products, e.g. **Aurubis FOXROD**, **Aurubis SHAPES**, **Aurubis BARS+PROFILES**, or the Flat Rolled Products Division we are **serving more than 250kt p.a.** to the market



Aurubis is one of the world's leading producers of cathodes and copper products.

Integrated copper production enables supply security in volatile markets



Our Powerful Duo

Responsibly sourced *primary and secondary* raw materials

Raw Material Supply

secured by a wide range of global suppliers for primary and secondary sources.

Unique Smelter Network

ensures an excellent position for our downstream operations.

Closing-the-Loop

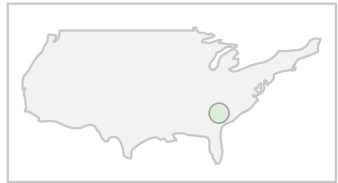
is an enabler for transparent value chains and making use of own raw material resources.

Multiple Production Lines

are the basis for a reliable supply with short lead-times

Aurubis production sites

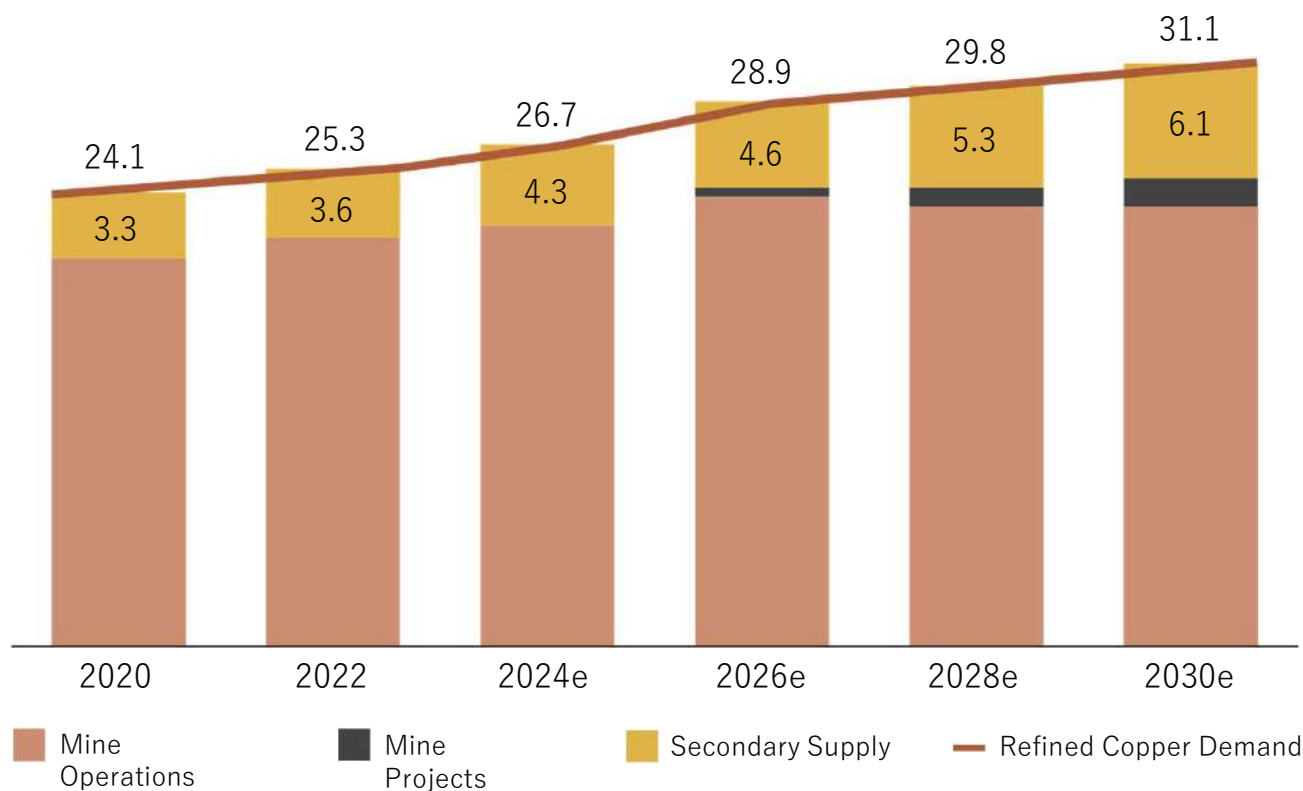
- Headquarters ● Primary Copper ● Recycling/Precious Metals
● Copper Products



Global copper demand continues to outpace supply

A holistic approach:
Future copper
demand requires both
**recycled and primary
copper.**

Refined copper supply
development by source (in Mt)



Source: Wood Mackenzie Global Copper Investment Horizon Outlook - Q4 2023

The powerful duo — secondary and primary supply forms the foundation of our business



**44 % recycled
content**

in the Aurubis
Copper Cathode

and
**56 % origin
from primary
raw materials**
in the Aurubis
Copper Cathode

Sources: Aurubis LCAs; Recycled Content of Aurubis Products in CY 2024



For our vision of
**a future-proof,
sustainable
metals industry.**

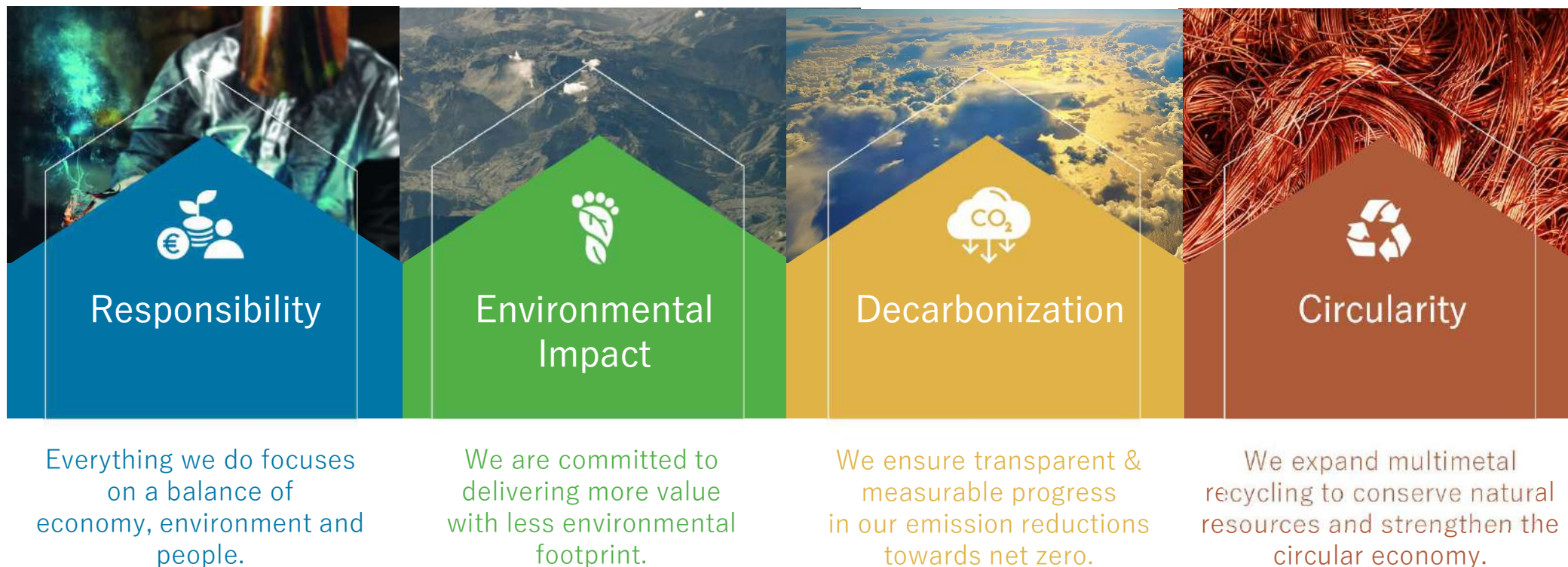
The Aurubis logo, consisting of a stylized white triangle icon followed by the word "Aurubis" in a white sans-serif font, set against a background of a sunset over a sea of clouds.

Aurubis



Shaping tomorrow, today.

At Aurubis, *Tomorrow Metals* is our promise: By sourcing our metals, customers choose best-in-class sustainability — today and tomorrow. Our approach is structured into four action fields:



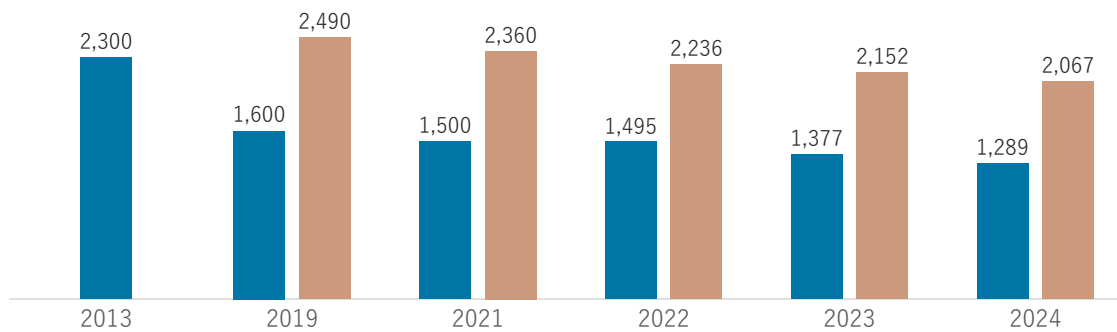
Leading the way with LCAs: low carbon copper - footprints substantially lower than industry averages



Carbon footprint (in kg CO₂ eq./t Cu)

Cathode global avg. (ICA 2019): 3,965

Wire Rod global avg. (ICA 2019): 3,622



Copper Cathode Wire Rod

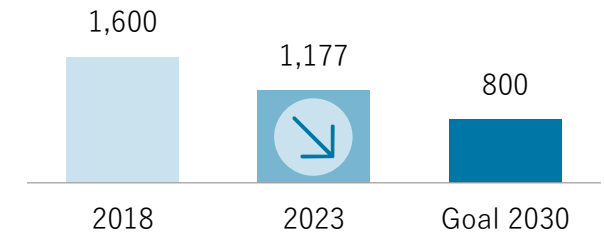
Carbon footprint based on cradle to gate LCA in accordance with the ISO 14040/14044, Environmental Footprint impact assessment method (3.1) and ICA carbon footprint guidance
Source: International Copper Association 2019, Aurubis LCA 2024

Continuous improvement

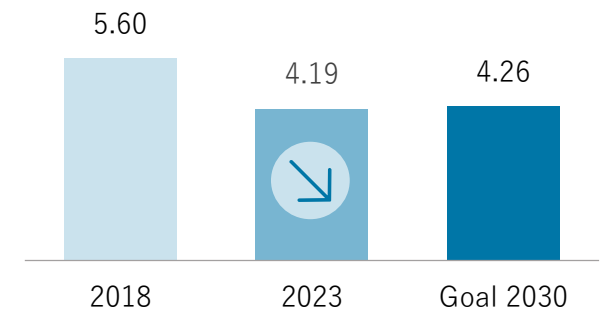
↓ **44%**
Cathode
2013 → 2024

↓ **17%**
Wire Rod
2019 → 2024

Absolute Scope 1+2 CO₂ emissions (in kt)



Scope 3 CO₂ emissions (in t CO₂/t of copper cathodes produced)

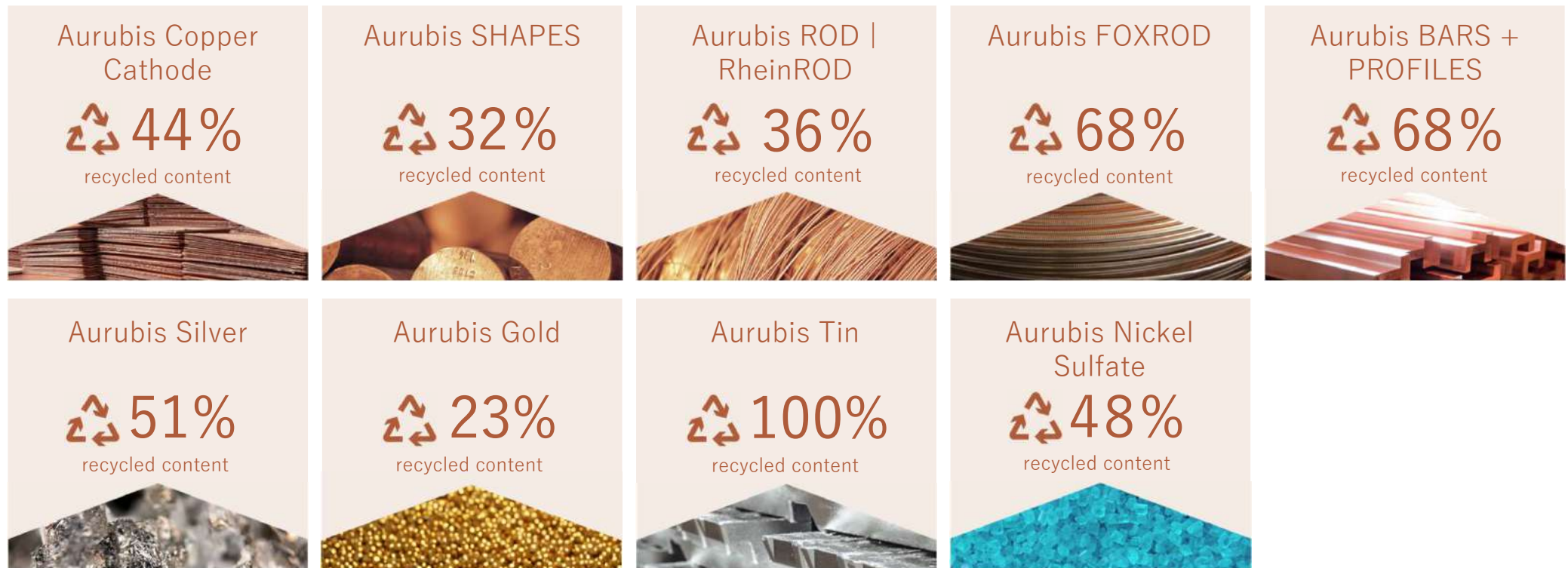


» Aurubis is continuously reducing its CO₂ emissions. We walk the talk.

Offering high quality products and supply security – thanks to primary & secondary sources



Our smelter network ensures high-quality products from primary and secondary sources.



Sources: Aurubis LCAs; Recycled Content of Aurubis Products in CY 2024

Aurubis / Tomorrow Metals: The Aurubis Sustainability Promise.

Our responsibility in action

Everything we do
focuses on a balance
**of economy,
environment and
people.**





Our responsibility: We push for transparency in the industry

Targets



Embed sustainability and transparency into every step of the value chain



Ensure compliance and accountability across all business relationships

Milestones



Top ESG rating performance

2024: CDP Score B 2025: EcoVadis 85/100 points (Top 1 %) and recognized as a carbon management “Leader.”



The Copper Mark

In 2023, our Olen site became the first smelter globally to successfully complete The Copper Mark Chain of Custody assessment. Today, six Aurubis sites participate in The Copper Mark assurance framework



Honored with the 17th German Sustainability Award in 2025



Advocating for responsible supply chains:

Aurubis Code of Conduct, Business Partner Screening

More value. Less footprint.

We are committed
to constantly delivering
**more value with
less environmental
footprint.**



Our eco-impact

Ambition



Reduction of **specific dust emissions to air by 25 %** by 2023 vs. 2018



Reduction of **specific metal emissions to water by 30 %** by 2030 vs. 2018

Milestones achieved



-25 %

dust emissions per t Cu eq. produced since 2018



>€ 1 billion

invested in environmental measures Group-wide since 2000



-29 %

metal emissions to water per t Cu eq. produced since 2018



Governance

All Aurubis sites have an environmental management system certified in accordance with ISO 14001. Aurubis AG is furthermore EMAS certified.

Our impact — transparent & verified

Through transparency,
e.g., annual LCAs, we
**ensure measurable
progress** in cutting
emissions towards
net zero.





Transparent & verified impact : We are actively decarbonizing

Ambitions



Paris-compliant:
-50 % Scope 1 & 2,
-24 % Scope 3



Carbon neutral before 2050

Milestones achieved



LCAs for 10 product groups
proving our products are significantly lower in carbon
than the industry average



More than 65 % lower
carbon footprint of our Cathode - 1,289 in 2024 (kg
CO₂ eq./t Cu) - than industry average



Our 2030 GHG reduction targets
are validated by the Science Based Targets Initiative.

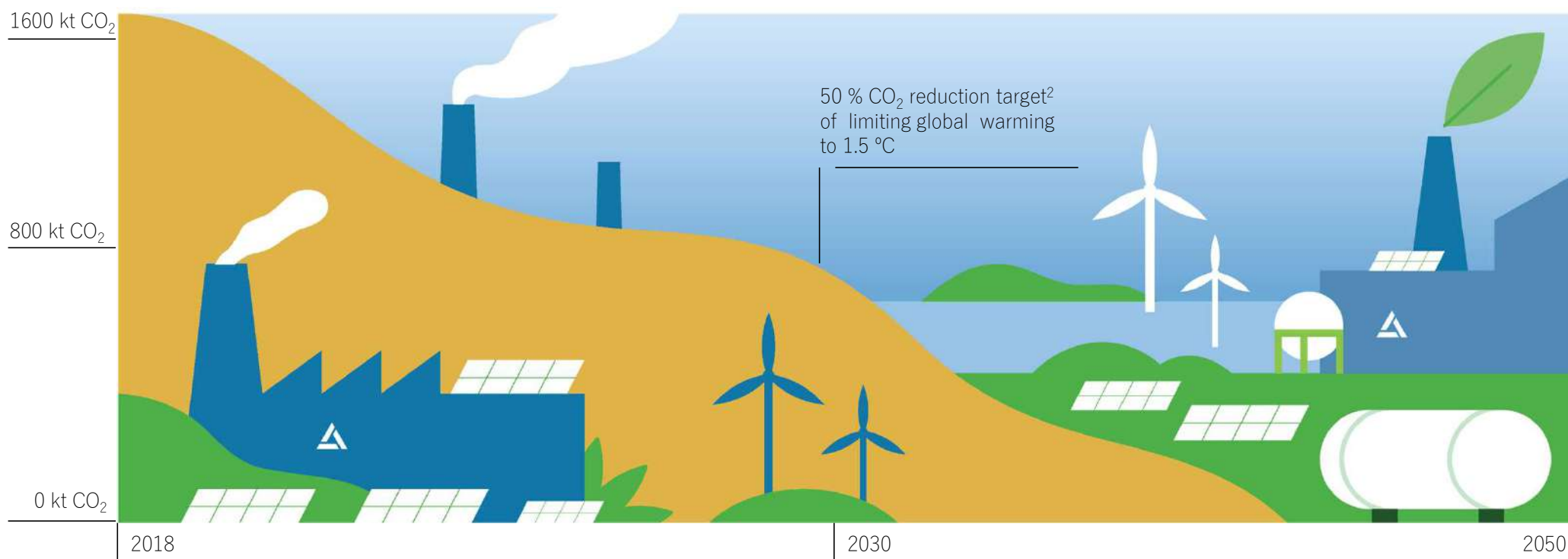


Innovation spotlights
Hamburg: The anode furnace has been H₂ ready
since summer 2024. Pirdop: Solar energy capacity
expansion to four plants with total capacity of
41 MWp (equal to powering 25,000 citizens p.a.)



Decarb Roadmap at a glance: **Aurubis on the way to CO₂ neutrality**

We are aiming for carbon-neutral production before 2050. We already achieve a carbon footprint for many of our metals that is less than half the global average.¹



¹ Website LCA ² SBTi certified

Driving circular growth

We are expanding
multimetal recycling
**to strengthen the circular
economy and
conserve natural
resources.**



Our contribution to circularity: Pioneering recycling targets, strong partnerships, and a global multimetal network



Ambitions



Increase recycled content in copper cathodes up to 50 % by 2030



Expand annual recycling capacity beyond 1 million tons

Milestones achieved



More than 1 million t

recycling capacity in total and 44 % recycled content in copper cathode for 2024



150+ closing-the-loop partnerships



1st US multimetal recycling plant

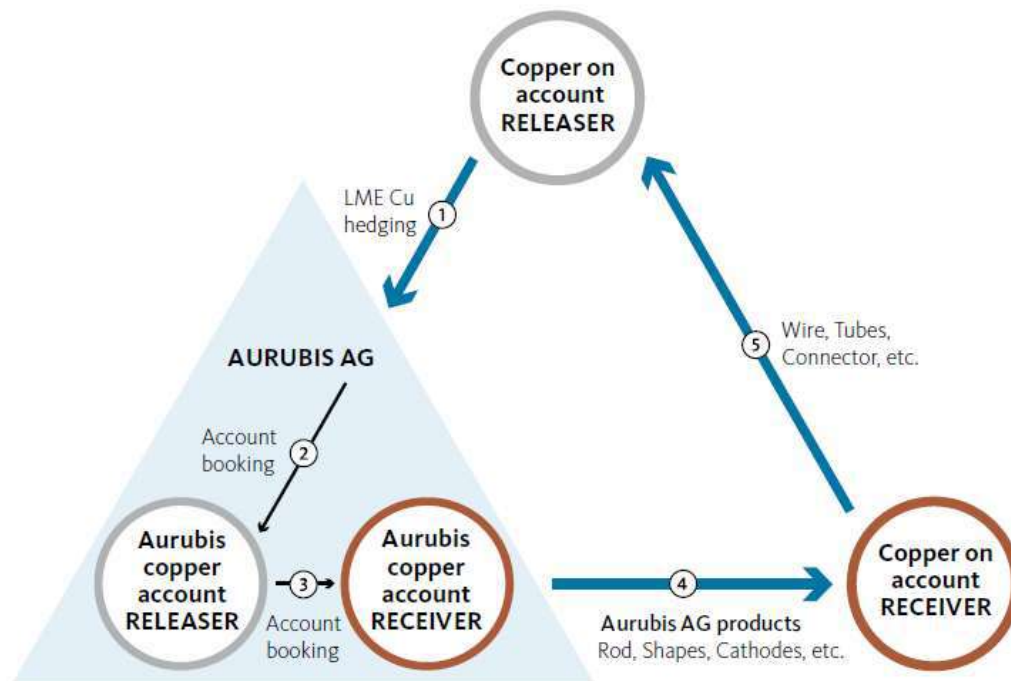
built by us in the US in Augusta, Georgia



Our commitment:

We are continuously investing in and expanding our international multimetal recycling network.

Copper on Account: Sourcing option to the Tier-x – customers to secure low carbon copper for their value chain



Operational Efficiency & Transparency



- **No cathode logistics or storage** for maximum flexibility and short-notice supplier release.
- **Various copper price fixation options** contribute to the price stability in volatile markets.
- **Increased transparency** by knowing the origin of the copper products.

Partnership & Quality



- **Access to a broad partner network** for agile cooperation with CoA receiver.
- **Cathode quality** is Aurubis' responsibility. The releaser is not liable for the cathode quality.

Circularity & Sustainability



- **Tolling copper scraps closes your material loop**, efficient, sustainable, circular.
- **Low carbon copper products** provided by Aurubis



Shaping Tomorrow.
Together. Today.



LinkedIn:



Tanja Winter

Exec. Director, Heads of Sales Rod

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Be part of the change

