

Collaborating towards circular supply chains

RGI Best-Practice Webinar Resilient and Optimised Power Grids

22/09/2026 | Lara Mertens, Elia Transmission Belgium

Getting to know Elia Group: from European key player to global partner in the energy transition



Our drivers for viable growth

Value creating growth for the benefit of **Consumers and Stakeholders**

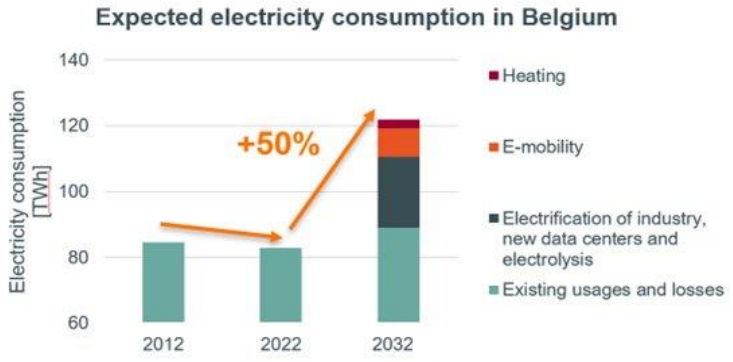
Healthy and performing **People, Organization & Culture**

Reliable, sustainable & efficient **Operations & Digital**

Strong and robust **Financing & Performance**

Elia plays a key role in the energy transition by designing, building and operating reliable, cost-efficient, and future-proof power systems

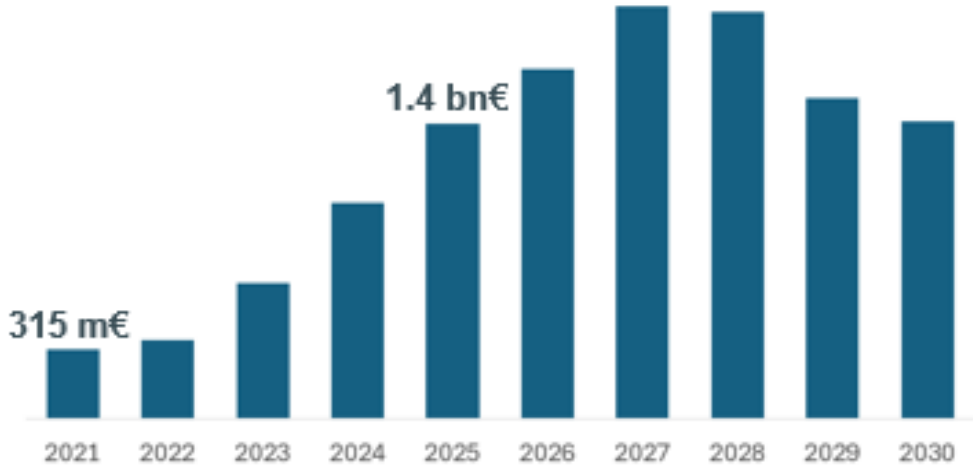
Expected changes in the energy landscape



By 2032

Solar PV	Onshore Wind	Offshore Wind
x2.2	x2.1	x2.5

ETB annual average CAPEX evolution*

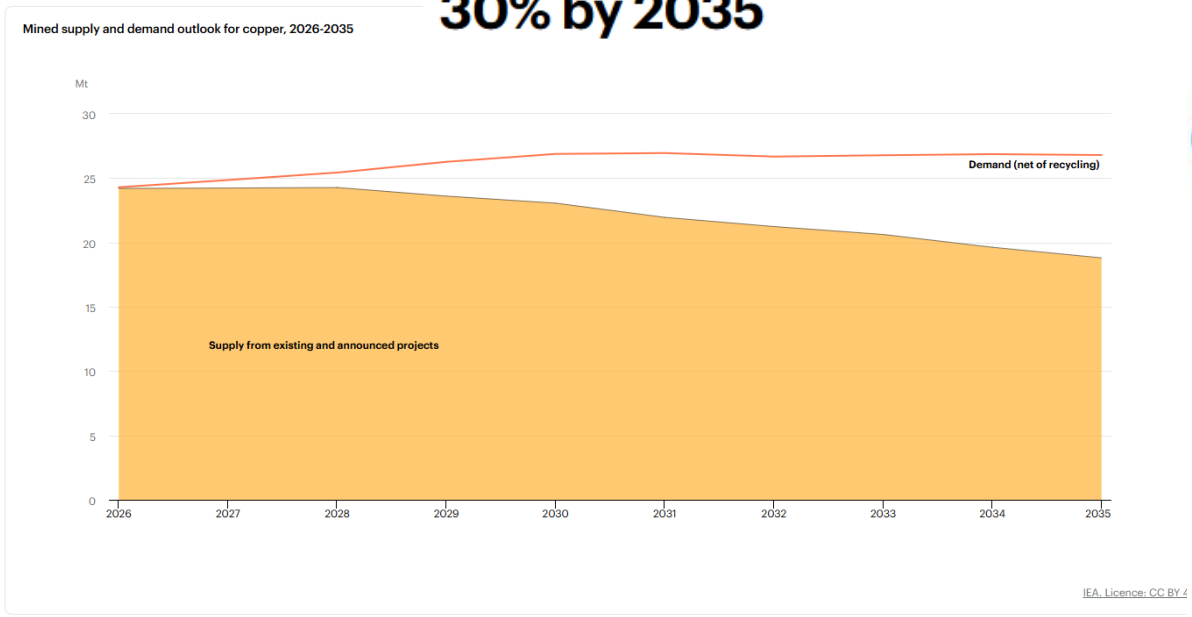


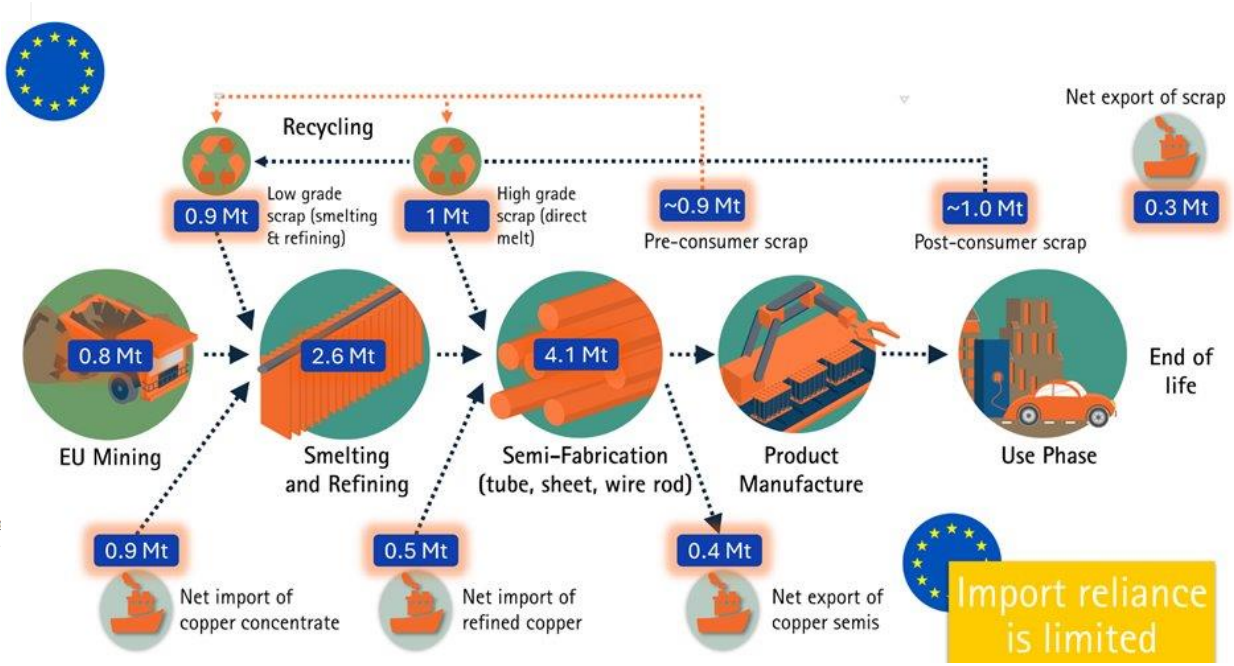
*estimation for illustration purpose

Very material intensive energy transition

Demand for strategic metals is increasing, while EU remains highly dependent on imports & faces supply deficits

Copper is set to face a major supply deficit of 30% by 2035



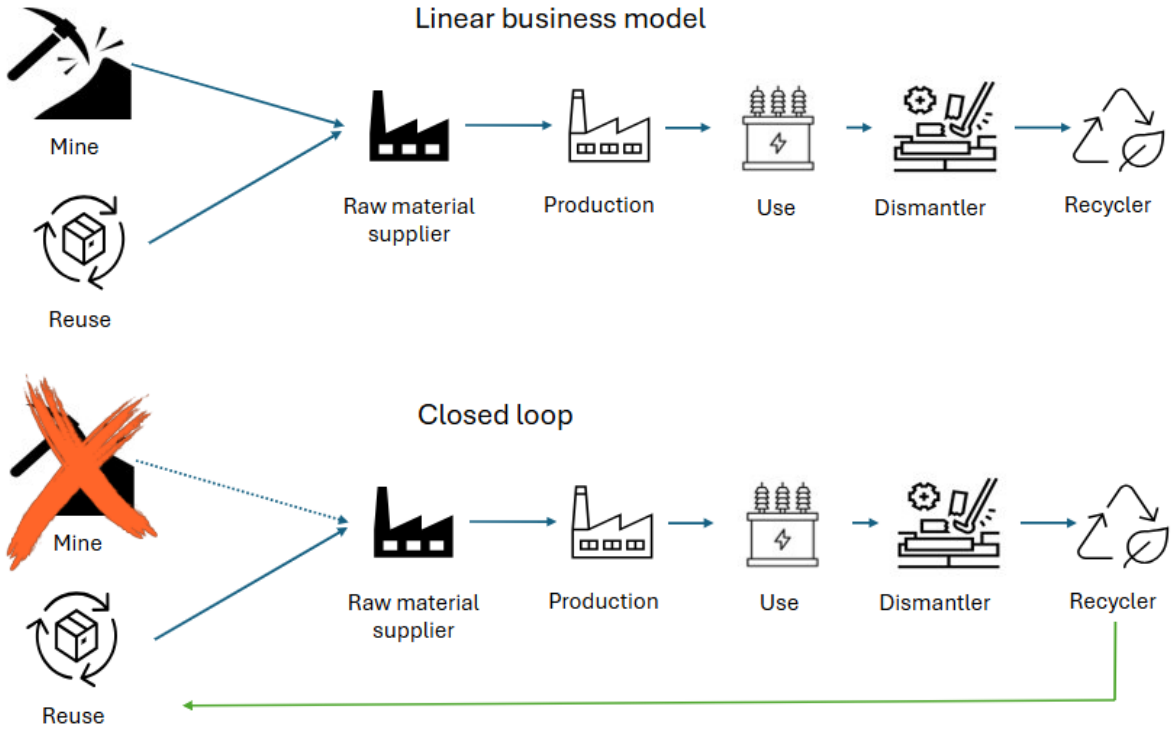


ALUMINIUM

+30%
DEMAND BY 2040
DUE TO THE GREEN TRANSITION
*COMPARED TO 2022

>50%
OF EUROPEAN DEMAND
MET BY IMPORTS

Circular business models offer solutions to increase resilience while reducing environmental footprint



- Enhanced resilience against supply chain disruptions by supporting the use of recycled materials and keeping valuable materials in EU
- Reduction in CO_2 emissions from raw material extraction and transport
- Lower landfill and hazardous waste volumes
- Improved ESG ratings and stakeholder perception
- Support historical suppliers in their ESG transition
- New partnerships and innovation leadership in the energy sector

Current challenges include potential increase in complexity & costs due to low market maturity

Current barriers to circularity initiatives:

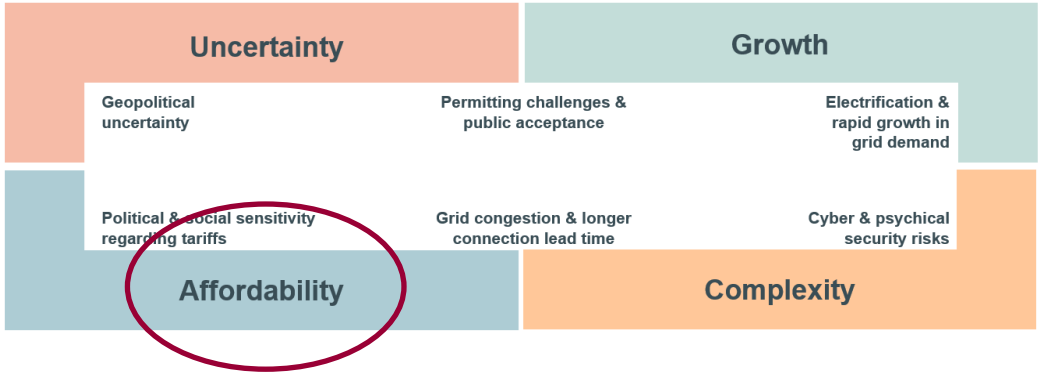
- Price premiums
- Traceability
- New contractual agreements
- Logistical changes







The context in which Elia operates:



Affordability of the energy transition
= TOP 2 Corporate Risk

Circular projects require stakeholders across business value streams to form new partnerships and co-create efficient and viable business models

Engage with policymakers to advocate regulatory frameworks helping to secure copper availability for EU industries

Develop **common standards** to trace materials, collect sustainability related data & build procurement practices for long-term security of supply at competitive prices

Explore **new copper ownership models** and contractual agreements

Provide strong **market signaling** for low-carbon materials and assets



Thank you

