

WELCOME TO *our webinar*



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MODERATOR

AGENDA *for today*



INTRODUCTION | Renewables Grid Initiative (RGI)



SETTING THE SCENE | International Copper Association (ICA)



BEST PRACTICE SHOWCASE | Aurubis



INDUSTRY INSIGHTS | Europacable

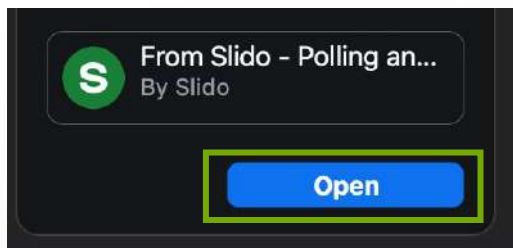


Q&A SESSION

HOUSEKEEPING

guidance

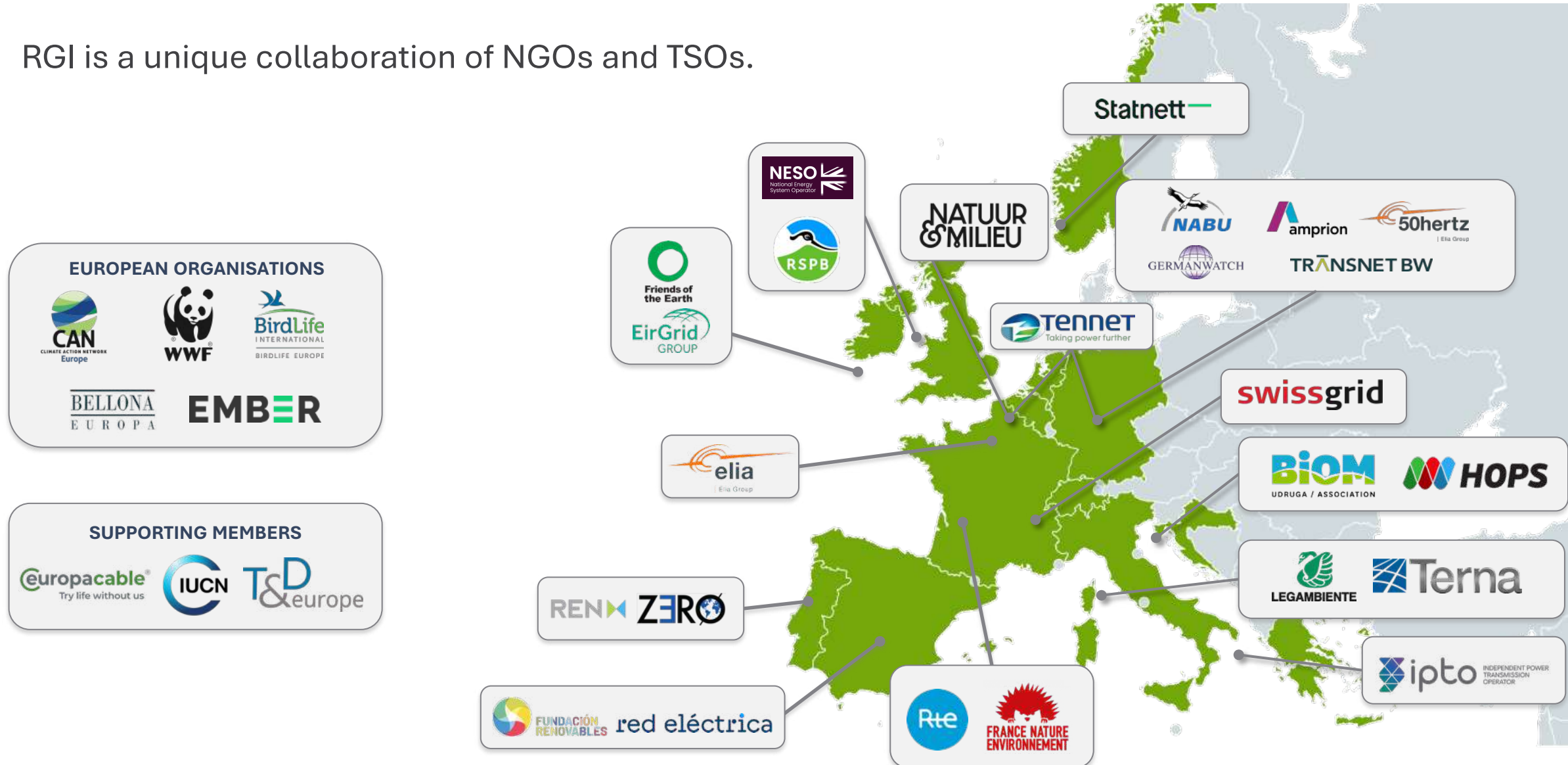
- This webinar is being recorded
- Microphone off, camera on
- Rename yourself to “Name, Organisation”
- We will use Slido for the Q&A Session. Make sure to write your questions and vote for your favourites!



FOSTERING discussions

Renewables
Grid Initiative

RGI is a unique collaboration of NGOs and TSOs.



FOSTERING discussions

RGI is a unique collaboration of NGOs and TSOs.

We engage in an energy transition ecosystem of actors and promote **fair, transparent, sustainable grid development** to enable the growth of renewables to achieve full decarbonisation in line with the Paris Agreement.



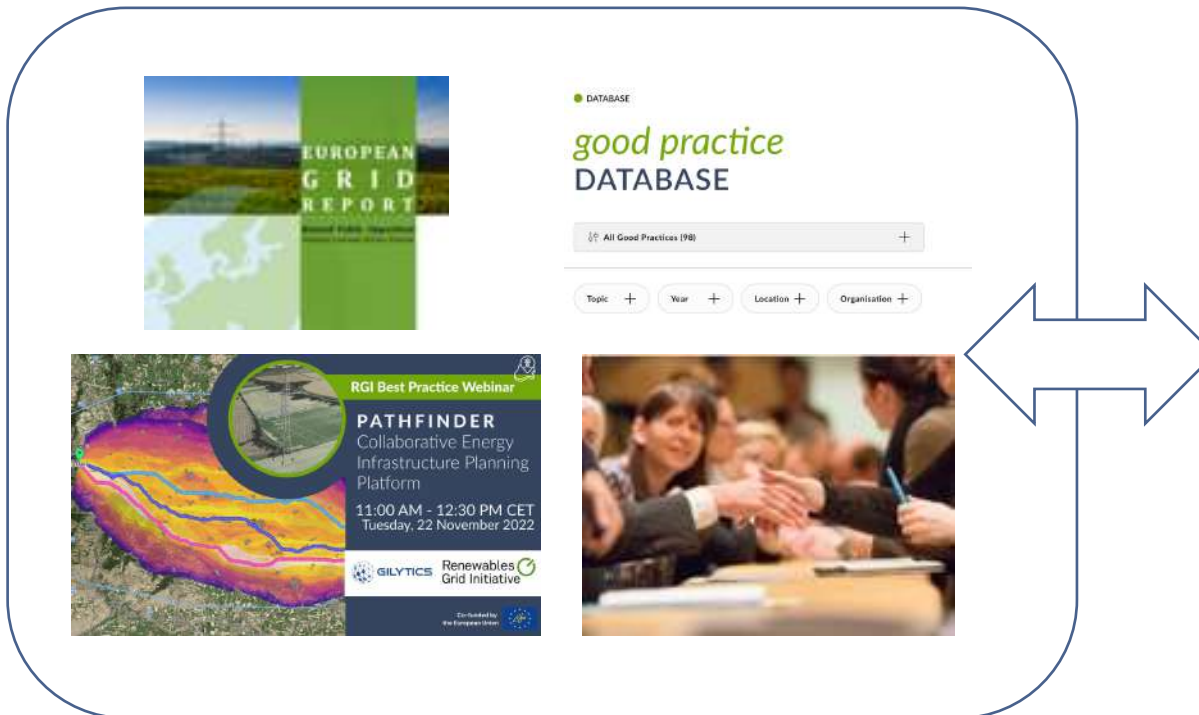
SHARING Best practices

SHARING EXPERIENCES WORTH REPLICATING

Collecting
practices

and

talking about
them



As a solutions-driven organisation with focus on the electricity infrastructure implementation, we foster knowledge exchange, discussions on the needs of grid infrastructure, and best practices sharing within **three dimensions**:

GRIDS & ENERGY SYSTEMS

We enable discussions on how to **model, plan and implement** decarbonised and optimised clean energy systems, including different voices in the process.

ENERGY & NATURE

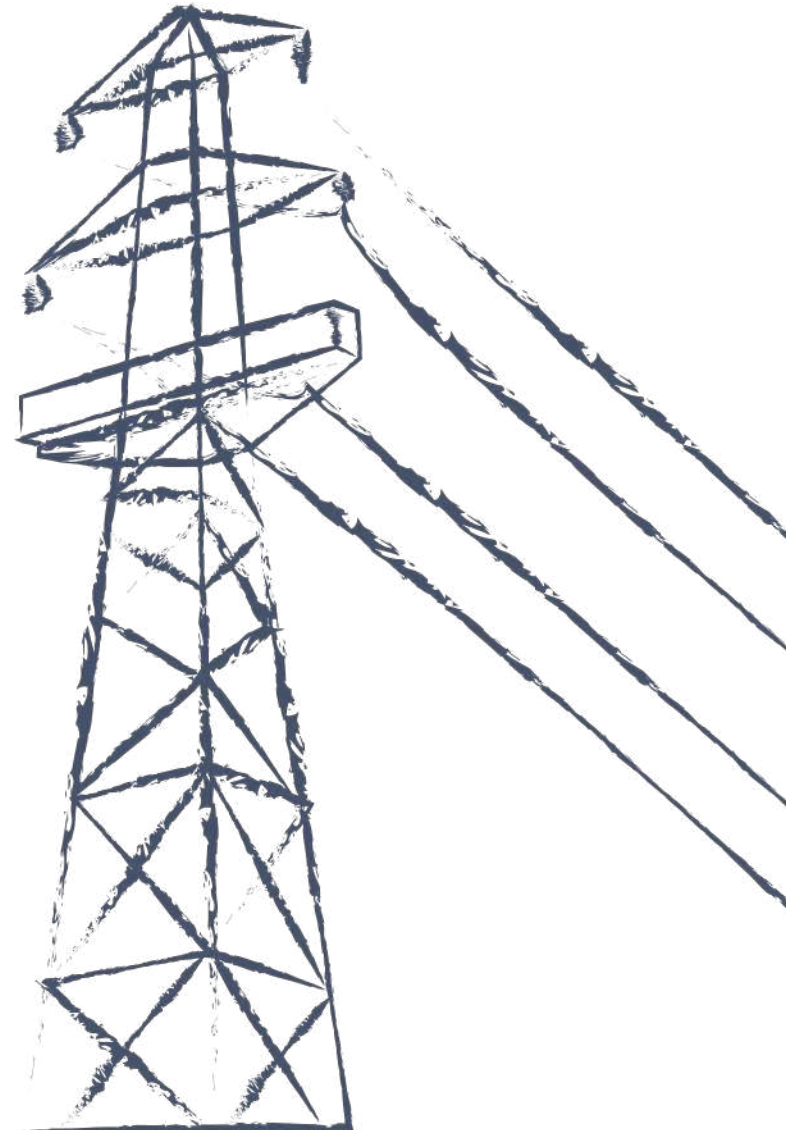
We ensure energy systems both onshore and offshore are developed in **coherence with nature and biodiversity**, promoting mitigation, enhancement and restoration measures.

ENERGY & SOCIETY

We include and engage **citizens, civil society and policymakers** on strategies towards full decarbonisation, building capacity on the role of grids within the energy transition.

 ZOOM-IN

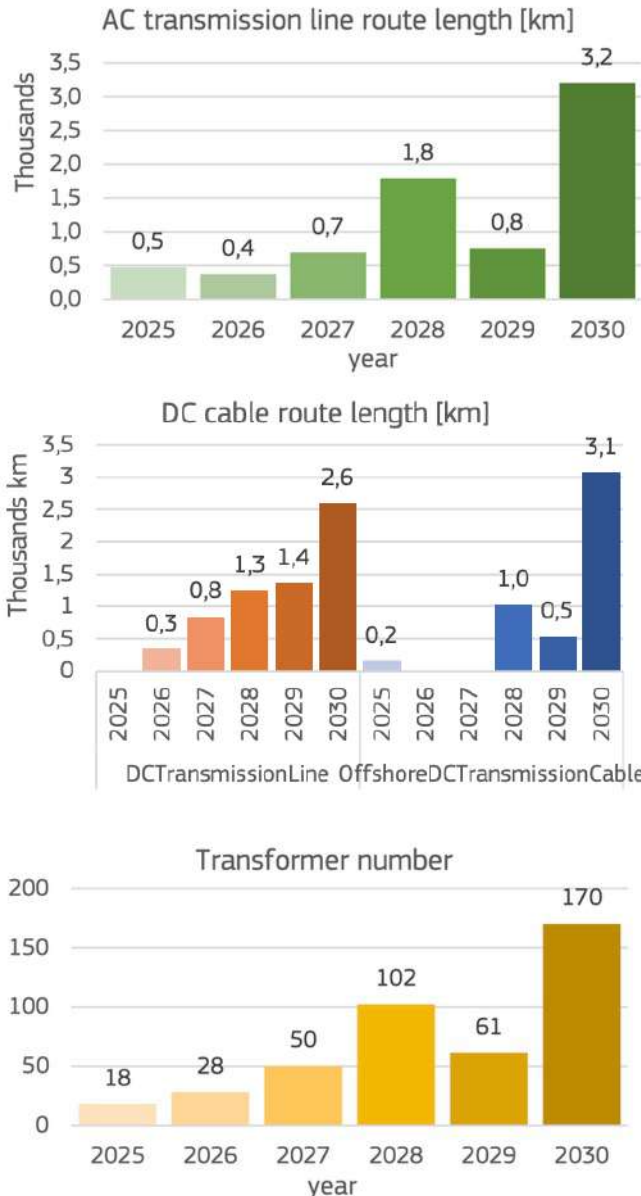
RESILIENT & OPTIMISED power grids



ENERGY TRANSITION

material needs

As we accelerate infrastructure deployment, more grid components and equipment will be needed.



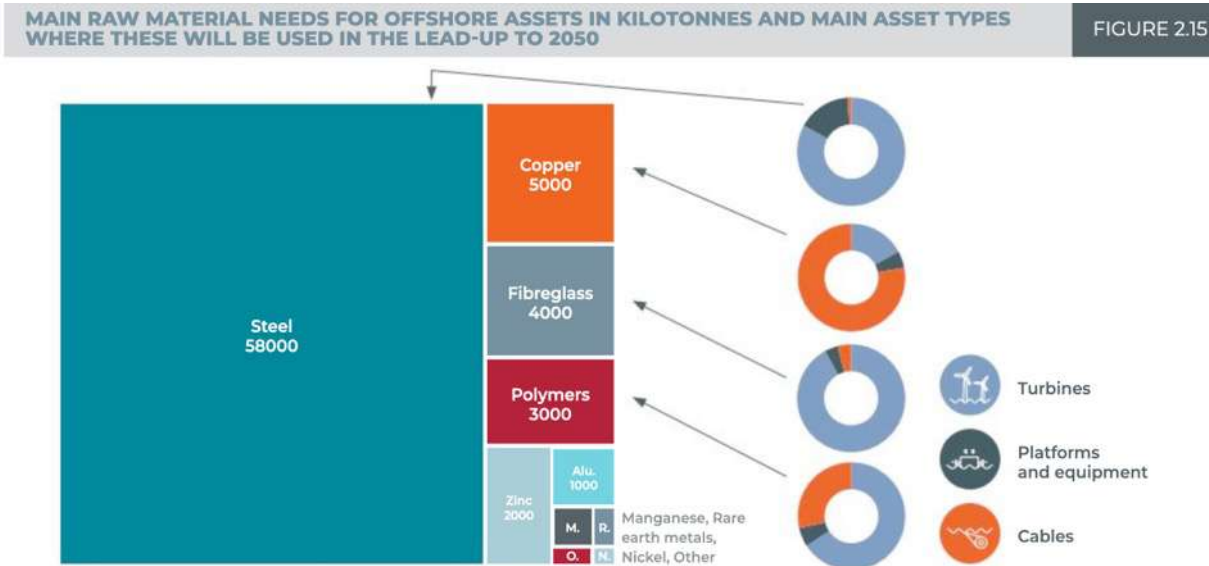
ENERGY TRANSITION

material needs

As we accelerate infrastructure deployment, more grid components and equipment will be needed.

In turn, more raw materials and manufacturing capacity will be required.

The energy transition is a materials transition: dependence shift from fossil fuels to technologies, manufacturing and materials.



[Elia Group \(2024\): Going like the wind: The virtuous cycle of offshore wind benefits in Europe](#)

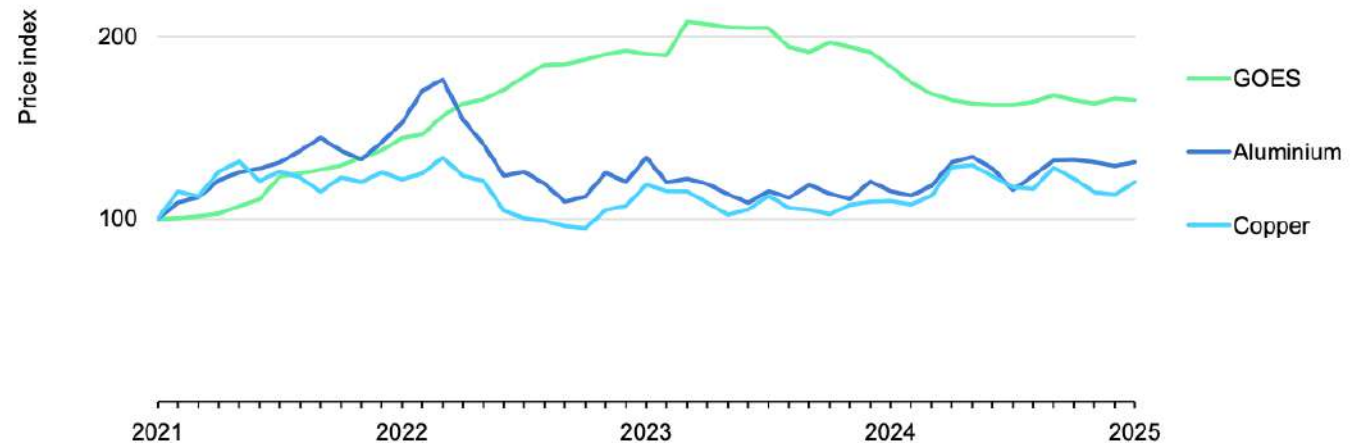
IMPACTS OF material needs

Transmission components are facing **higher costs**, impacting the affordability of the transition.

High material prices are one of the main causes. Among raw materials, the volatility in the costs of copper, aluminium, and oriented electrical steel (GOES) has contributed to the cost surge in transmission components.

Strong competition between sectors and technologies, as well as geopolitical competition between world regions, raises even more concerns.

Price index for key materials: GOES, copper and aluminium, 2021-2025



IEA. CC BY 4.0.

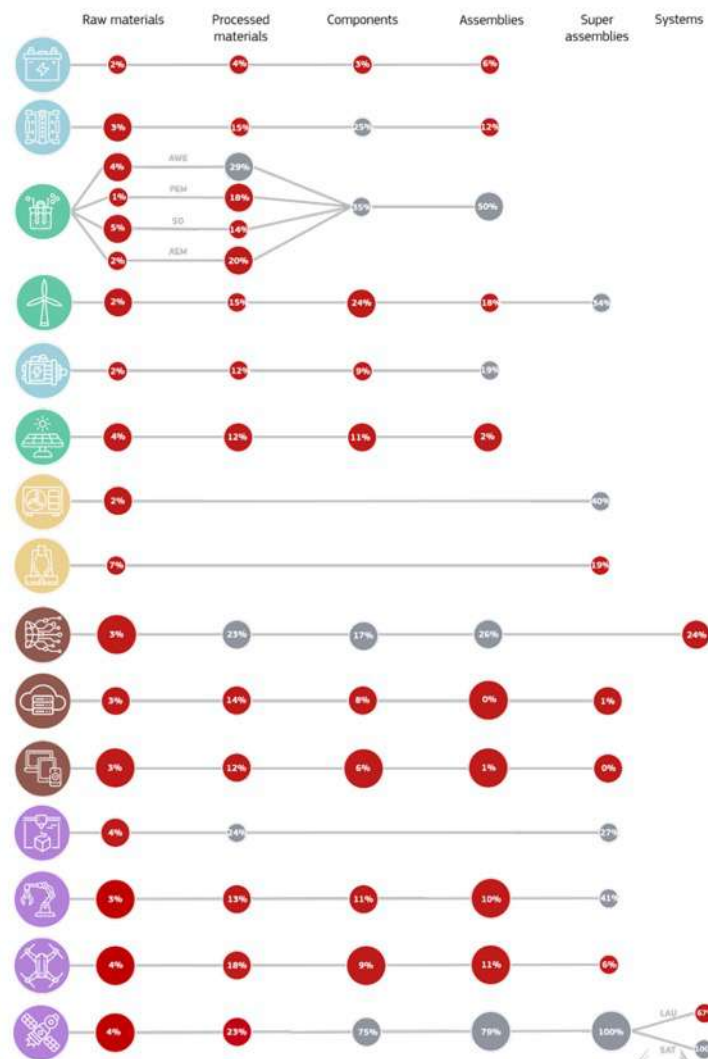
Source: IEA analysis based on data from Bloomberg, [T&D Europe](#), [Federal Reserve Economic Data](#).

[IEA, 2025](#)

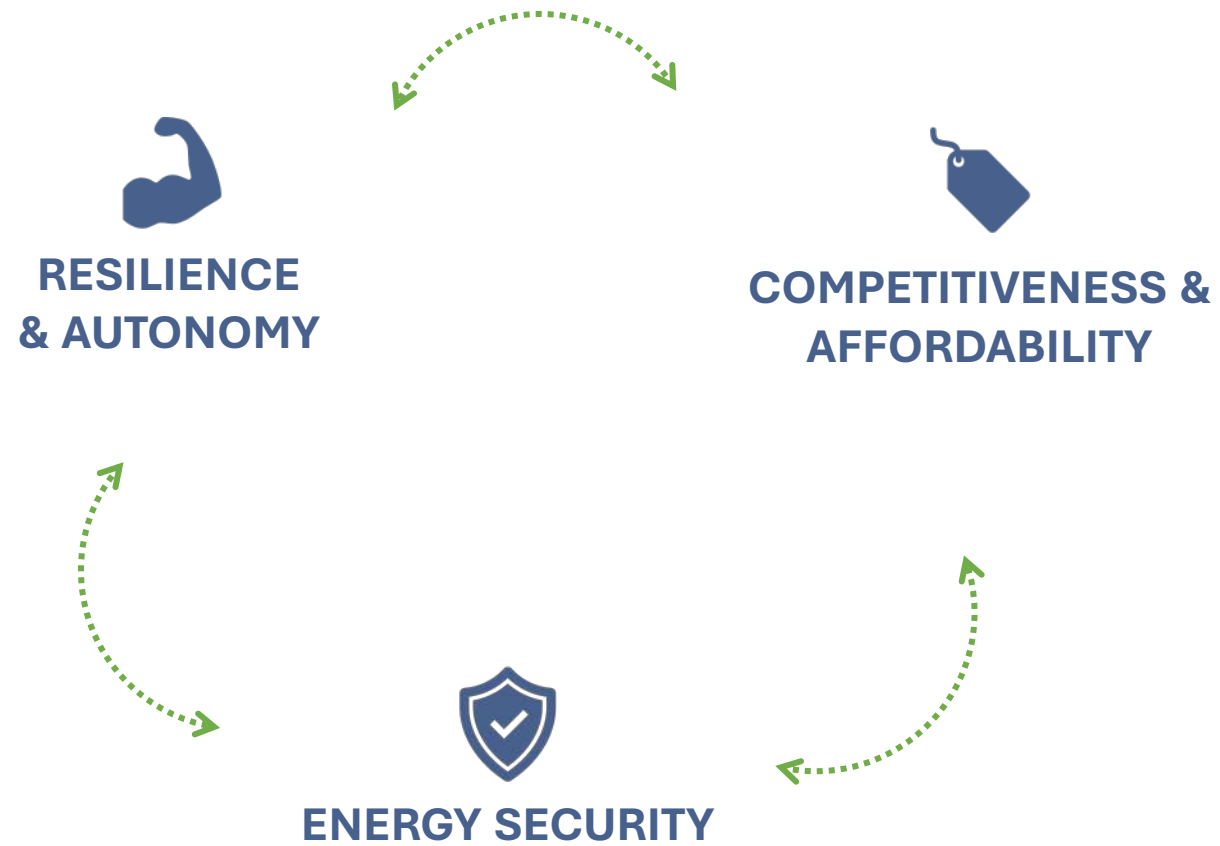
IMPACTS OF material needs

In the European context, while the assembly and manufacturing stages are mostly secured, the EU's share in the global production of raw materials has **never been higher than 7%.**

These disparities lead to a **systematic dependence on raw and critical materials imports.**



JRC, 2023

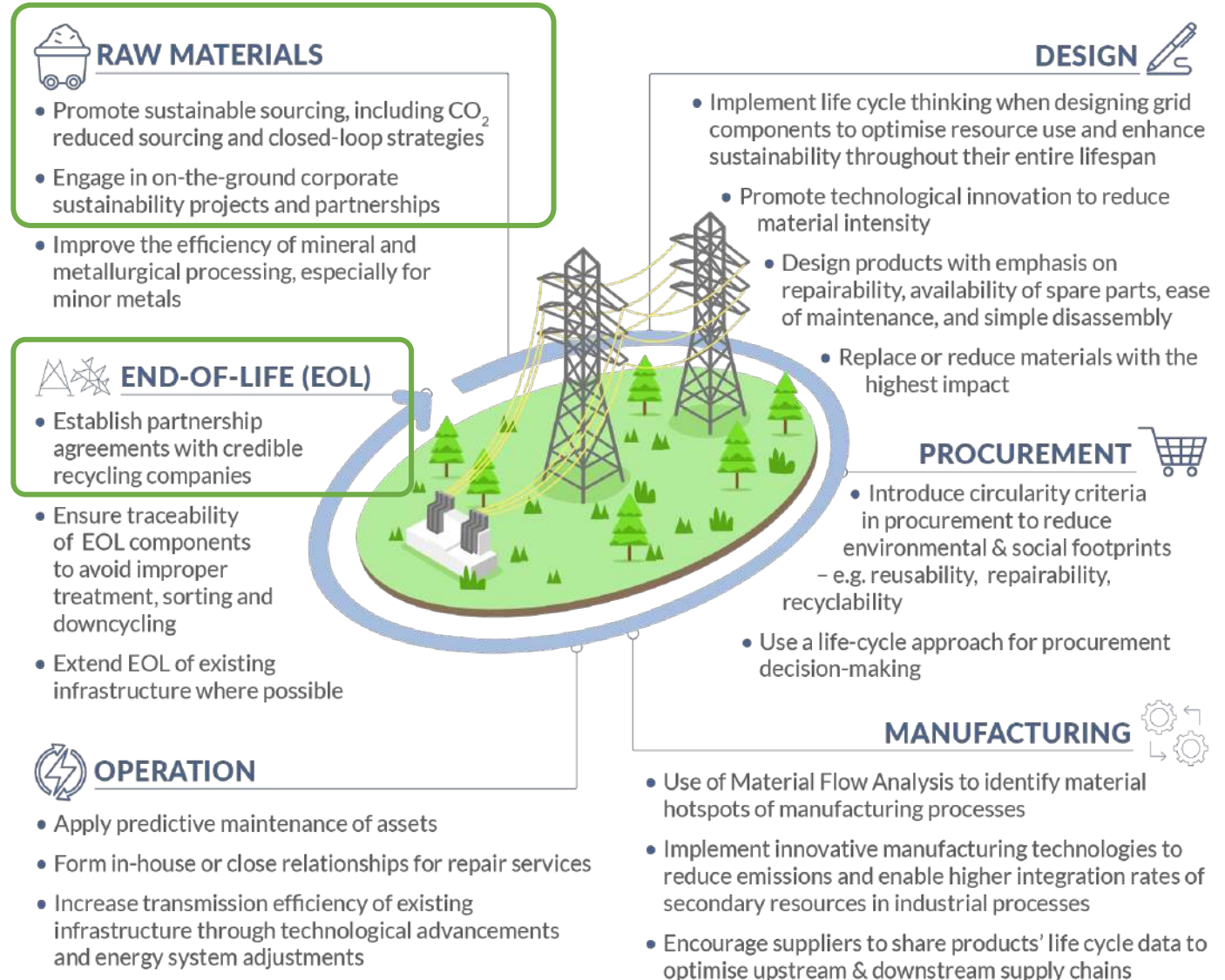




POTENTIAL BENEFITS of circular approaches

Implementing measures of **circularity** in energy infrastructure can reduce environmental pressure, increase the security of supply, and provide societal benefits.

Beyond recycling, circular strategies must incorporate resource optimisation, infrastructure efficiency and asset lifetime extension.



CIRCULARITY IN energy systems

Bringing stakeholders together, we have discussed possibilities and explored the challenges and possibilities of **incorporating circularity within energy systems and grid supply chains.**

26 June
2024



Expert Workshop
Closing the Circle

[More information](#)

24 October
2024



Webinar
Wired for Circularity
w/ IRENA, JRC & RTE

[More information](#)

December
2024



Factsheet
**Summarising
findings**

[More information](#)

25 September
2025



Expert Workshop
**Powering Security
with ICA Europe**

[More information](#)

06 November
2025



RGI Statement on the
Circular Economy Act

[More information](#)

CIRCULARITY IN energy systems

Renewables
Grid Initiative 



To create awareness on potential solutions and dive deeper into the multiple perspectives within this topic, RGI is organising the **Webinar Series** under our Activity **‘Resilient & Optimised Power Grids’**

This is the second session, and next webinars will be held in – **stay tuned for more info!**

Explore our work on
circularity & supply chains

bit.ly/RGI-Circularity



Thank you & LET'S KEEP IN TOUCH!



Sign up for RGI's newsletter to stay updated
renewables-grid.eu/newsletter



Presentations and recording will be available
on our website



Next webinar session will be
published soon!