



Circular Economy Stakeholder Conference

Session: 'The European automotive industry driving towards circularity'

Kamila Slupek

Brussels, 2023-02-27



Eurometaux membership

27

Company members,
across the full metals
value chain:



8

Commodity
associations

13

National associations

23

Associate members

What raw materials drive EU clean mobility?

Zn
Zinc
▲ 17kg*
♻️ >85%*
GALVANISED STEEL

Cu
Copper
▲ 70kg*
♻️ >90%*
WIRING, BATTERY AND MOTORS

Al
Aluminium
▲ 151kg*
♻️ >90%*
LIGHTWEIGHT AUTOMOTIVE PARTS

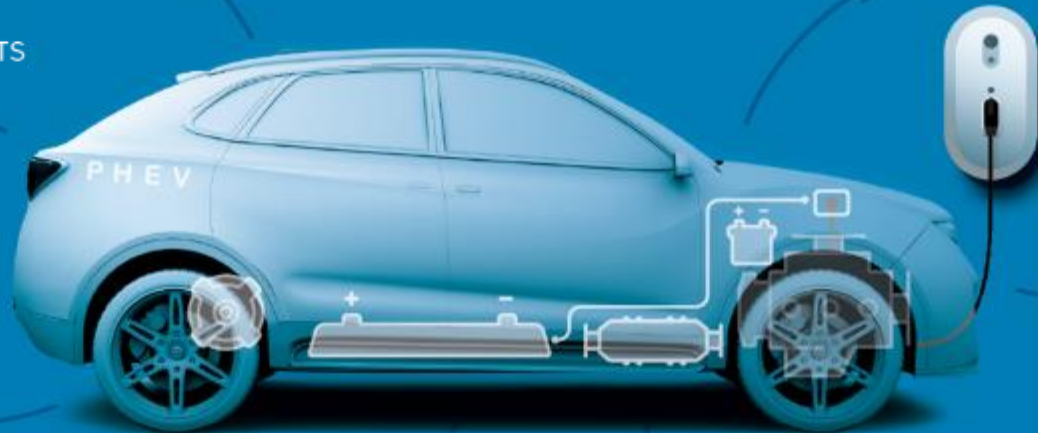
Dy **Nd**
Dysprosium Neodymium
▲ 3kg* (combined)
PERMANENT MAGNETS
(In electric motor)

Pb
Lead
▲ 12kg*
♻️ >99%*
LEAD-ACID CAR BATTERIES

LITHIUM-ION BATTERY PACKS

Li Lithium ▲ 13kg*	Co Cobalt 14kg*	Ni Nickel 46kg*	Cu Copper 30kg*
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Rh **Pd** **Pt**
Rhodium Palladium Platinum
▲ 15g* (combined)
♻️ >60%*
CATALYTIC CONVERTER



Source: World Bank

*Approximate weight in an average single vehicle | *percentage of the metal currently being recycled from European cars

Key issues for the upcoming regulatory framework

Missing & illegally exported ELVs

- Tackle the problem of ELVs deregistered without a certificate of destruction.
- Enforce controls at the borders to prevent illicit export of ELVs to non-EU countries.

Recycling aspects

- Increase the flow of ELVs through improvements to design, collection, dismantling & sorting.
- Maximise vehicles dismantling before shredding.

Coherence of EU legislation

- Ensure coherence between ELV Directive and EU waste & product legislation, e.g. Waste Framework Directive, Batteries Regulation, Waste Shipment Regulation and ecodesign (ESPR).

THANK YOU

Kamila SLUPEK
Sustainability Director
slupek@eurometaux.be

 @Eurometaux

www.eurometaux.eu

Avenue de Tervueren 168, Box 13 | B-1150 Brussels | Tel: +32 (0) 2 775 63 11 | eurometaux@eurometaux.be

13 Al Aluminium	29 Cu Copper	28 Ni Nickel	82 Pb Lead	30 Zn Zinc	79 Au Gold	47 Ag Silver	78 Pt Platinum	51 Sb Antimony	4 Be Beryllium	14 Si Silicon	27 Co Cobalt	42 Mo Molybdenum	23 V Vanadium	50 Sn Tin	46 Pd Palladium	44 Ru Ruthenium	75 Re Rhenium	76 Os Osmium	77 Ir Iridium	74 W Tungsten	73 Ta Tantalum	32 Ge Germanium	34 Se Selenium	31 Ga Gallium	24 Cr Chromium	12 Mg Magnesium	3 Li Lithium
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