Achieving the full circular potential of aluminium Meeting with DG ENVI, Mr Saudaskas

10 December 2020



/ Our key message today

In the context of the EU Green Deal and the new Circular Economy Action Plan, the aluminium industry can deliver:

- More than double the amount of post-consumer aluminium available for recycling by 2050, from 3.6 million tonnes per year today to 8.6 million tonnes.
- 50 % of the demand for aluminium in Europe could be supplied through post-consumer recycling, compared to 20% today.
- Maximising the use post-consumer aluminium scrap = limiting the amount of imported carbon intensive primary aluminium
- Recycling can contribute to CO₂ savings of 46 % per year in 2050

We need:

- Legislative framework
- Incentives to investment in recycling activities and R&D
- Cross industry collaborations

/ Recycling aluminium in Europe

- Around 220 plants (remelting + refining)
- Ca. 12.5 Mio tonnes Installed capacity (70% for remelting and 30% for refining)



Figure 2: Aluminium recycling capacities in Europe (Source: European Aluminium Statistics)

 To enhance its strategic autonomy, Europe should preserve its aluminium primary production and further boost its recycling capacity.

European aluminium demand for aluminium ingot (2000 - 2050) Including a decreasing production case, a positive and a baseline scenario for the primary production in Europe (i.e. EU28+EFTA)



/ Boosting the circular systems

Main challenges today:

Figure 3: Total use of post-consumer aluminium by 2050 Mton aluminium in year 2017, 2030, 2050 Source: CRU data - 2019.



aluminium lost during collection

and recovery, EoL aluminium in

products (e.g. cars) which are exported legally or illegaly or aluminium scrap landfilled.



 As the demand is still growing, the availability of post-consumer aluminium will also continue to grow.

- 1 Mt of aluminium scrap are exported every year
- 4 million of end-of-life vehicles are unaccounted for
- Some countries have relatively low packaging recycling rates
- Landfilling still a solution in some countries
- Need to address informal can collection



Policy Recommendations



/ The EU is a net exporter of aluminium scrap since 2002



- High export levels of scrap represent missed opportunities to:
 - Develop further the recycling industry in the EU
 - Successfully transition towards the circular economy
 - Decrease emissions

/ 80% of the aluminium scrap exports go to Asia



- 2016: EU exported about 941 ktonnes of scrap
- More than 80% of this scrap headed to Asia (38% to China and 27% to India)
 - EU- equivalent standards on standards for environment and safety cannot be guaranteed

/ How to address the export of scrap?

Our recommendations for the Waste Shipment Regulation

- Simplification of the Notification Procedure
- Update of the European Waste Catalogue (missing green listed code)
- Level-playing field and equivalent conditions for exported waste
- Increasing the size of the testing samples to facilitate innovation

/ Moving from "good to great" in our main markets



- Cast and wrought aluminium is recycled in closer loops
- Better statistics and reporting of end-of-life cars by Member States
- Striving for 100% recycling of beverage cans
- Fair and transparent recovery systems for aluminium packaging
- Additional investments for more and better collection and sorting technologies
- Separate collection of various aluminium product types on site: extrusion-based vs sheet-based
- Better scrap preparation to separate non-aluminium parts
- Recycling in extruded or rolled products

/ End-of-life recycling or minimum recycled content targets?



- Focusing on end-of-life recycling is the best way to maximise the scrap availability. Europe should incentivise investments into recycling capacities and capabilities to support our industry in achieving a full circularity for all products containing aluminium
- Minimum recycled content targets do not give the right incentive to increase recycling of aluminium applications with a long lifespan and growing market

/ Packaging – Review P&PWD, new targets

- Our top priorities for the review of the Packaging & Packaging Waste Directive
 - No general reduction targets (but address over-packaging)
 - No mandatory Recycled Content percentages for all materials, GPP to be based on LCA's
 - Harmonised and extended separate collection systems, balanced Deposit Return Systems, phase out landfilling asap;
 - Fair and transparent eco-modulated EPR fees
 - Introduce extra code for used aluminium packaging waste in the EU Waste Catalogue: split 150104 (metallic packaging waste) into <u>direct</u> codes for aluminium and steel (no subcodes!)
- > Aluminium will deliver on the new and separate recycling targets for aluminium packaging:
 - Extension of the PMD (yellow bin / blue bag) systems with (laminated) foil and other related aluminium items;
 - Better collection and sorting extra investments in Eddy Current, induction-based and robot sorting pays off due to the high scrap value;
 - Include the (cleaned) aluminium recovered from IBA (incineration bottom ashes) in the recycling statistics;
 - Reasonable EPR fees address the issue of 'problematic' packaging items and stimulate additional pyrolysis treatment to address these items.

/ ELV directive

European Aluminium top priorities for the review of the ELV Directive:

- There is no need for minimum recycled content rates for materials like aluminium
- Well proven aluminium solutions that can combine the goals of making a vehicle lighter AND fully and economically recyclable already exist
- Design for recycling and post shredder separation technologies should be incentivised further
- The EU must act to get a better understanding of where the End-or-Life Vehicles of unknown whereabouts end up. The EU must also take swift action against any illegal shipment or treatment of End-of-Life Vehicles

Supporting materials:

Full position paper available at this <u>link</u> Video on aluminium recycling from ELVs at this <u>link</u> Infographic on aluminium recycling from ELVs at this <u>link</u>

/ Construction and Demolition Waste

Setting reuse and recycling target for the whole C&DW flow



- The problem when only recovery targets are set, is that waste that is used for backfilling and not reused or recycled further, can be taken into account by Member States to reach their objective equally to waste that is actually re-used or recycled, such as metal scrap. This is unfair for metals.
- The EU should set a 'Re-use and recycling' target for the whole Construction and Demolition waste flow, the only waste flow for which such target does not exist today.
- The EU should promote separate collection of various aluminium product types on site (extrusionbased vs sheet-based), avoid that building products scraps are mixed with other scrap flows and ensure that collected aluminium is recycled in Europe.

See our position paper here

Questions? Contact us!

Avenue de Tervueren 168 - 1150 Brussels, Belgium

www.european-aluminium.eu



/ European Aluminium in a snapshot

80+ approx. 600 plants in members 30 European countries (EU 28, EFTA and Turkey) LEU 28,

An innovative value chain serving EU key markets



1million + direct and indirect jobs across Europe's value chain

Europe produces

16%

of worldwide aluminium

100%

Permanent material

Aluminium properties do not change during use and following repeated recycling into new products



5% of original energy consumption

75% of all aluminium ever produced is still in use today

90%

of aluminium is recycled in construction and automotive in Europe

/ Aluminium is fit for circularity



- **Recyclability**: Aluminium recycling rates are among the highest compared to other materials: in Europe recycling rates are over 90 % in the automotive and building sectors, and 75 % for aluminium cans.
- **Durability**: Aluminium products can have a long lifespan e.g. **50 years** in construction and **15 years** in transport.
- **Energy bank**: the aluminium recycling process saves **95%** of the energy needed to produce the primary metal.
- Permanent material: aluminium can be recycled multiple times without losing its original properties.