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Review of the EU Battery Directive

Industries expectations

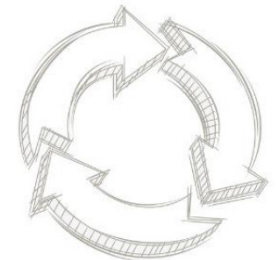


1991/57 & 2006/66

- Setting the scene
 - 1991/57/EEC
 - 2006/66/EC
 - Applications: Industrial | Automotive | Portable
 - Chemistries: Ni-, Pb-, Li-, Na- based
- What's new?

Nearly nothing!

History & Outlook

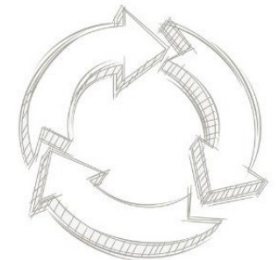


End-of-Life management

- Key elements:
 - Definition of application (Art. 3)
 - Definition of producer (Art. 3.12)
 - Allocation of responsibility for collection (Art 8)
 - Recycling efficiency (Art 12, Annex III)
 - Ban of landfill disposal (Art.14)

This closed loop at its best!

Battery Directive is the role model for circular economy !

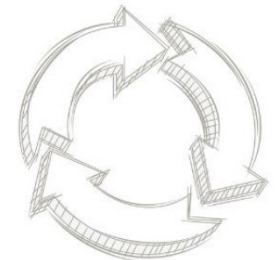


Hazardous Substances

- Restriction on “heavy metals” battery specific substances
- Labelling according “heavy metal” content
- Currently focused on Mercury, Cadmium & Lead
- ELV – Lead only
- REACH – not specific to Batteries
- Battery Directive – specific to Batteries & regulates substances

All aspects of batteries should be regulated here!

One piece of legislation for our key technology!



Increased environmental performance

- EP proposed amendment for Battery Directive that is to:
take into account ‘[...] the technical development of new types of batteries that do not use hazardous substances, in particular no heavy or other metals or metal ions’.
- Environmental Performance is far more than not using substances due to intrinsic properties
- Not using metal/metal ions excludes 80% of the substances from the periodic table of elements
- Increased environmental performance or obstacle for R&D and Competition?

Environmental performance needs to consider the entire environmental footprint of a battery system

Environmental Footprint over hazardous substances!

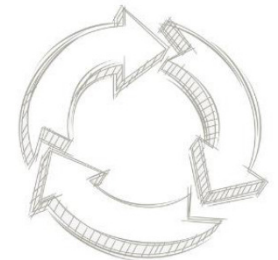


Labelling

- History of incidents in the ULAB waste stream
- Current labelling refers to content of heavy metals
- Future labeling should refer to the electrochemical system

New labelling scheme will further improve safety & efficiency in collection, transport and recycling!

Labeling should now serve a new purpose!



2nd life

- 2nd life battery has already served the purpose it was originally designed for
- 2nd life less demanding in performance (energy/power density)
- Potential to improve the overall environmental footprint
- But....
 - What is end of life? | What qualifies for 2nd life
 - Liability for safety in the 2nd life application?
 - End-of-(2nd)-life responsibilities?

2nd life approach needs to be backed up by definitions and allocation of responsibilities!

The new kid in town needs some guidance!

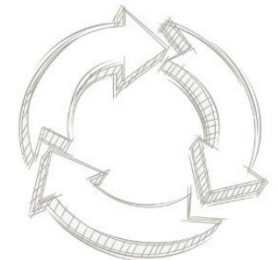


Summary & Conclusion

- End-of-Life management – closed loop already today
- Hazardous Substances – let's have it all regulated in here
- Increased environmental Performance – is more than use or ban a substance
- Labelling – already on its way
- 2nd Life – need to be integrated to become part of the existing closed loop

Let's promote the Battery Directive !

Looking forward to the Consultations!



Danke | Thanks | Merci | Gracias |
Grazie | Dziękuję | Sağol | Dank u wel |
Dankon | σας ευχαριστώ | ありがとう
| спасибо | Mulțumesc | благодаря |
Obrigado | děkuji | Hvala | D'akujem |
Tack | Tapadh leat | Takk | Grazzi |
Kiitos | Tak | Baie dankie

