

Recycling of end of life lithium- ion batteries from e-mobility

Peter Heßler, Dipl. Ing. (FH)

OUR COMPANY

Foundation

Location

Employees

Turnover

Export ratio





Offer portfolio

URT's business segment includes the engineering, sales and service of recycling plants for electrical and electronic waste (WEEE)

Installations for primary treatment

End of life refrigerators and air conditioners

Small appliances and IT recycling

Large household appliance recycling

LCD - flat screen

CRT – cathode ray tubes

Installations for the downstream treatment

Printed circuit boards

Toner cartridges

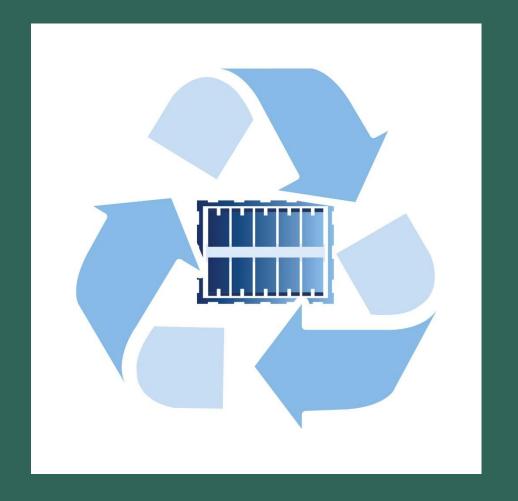
Plastic recycling from WEEE

Lithium - ion batteries



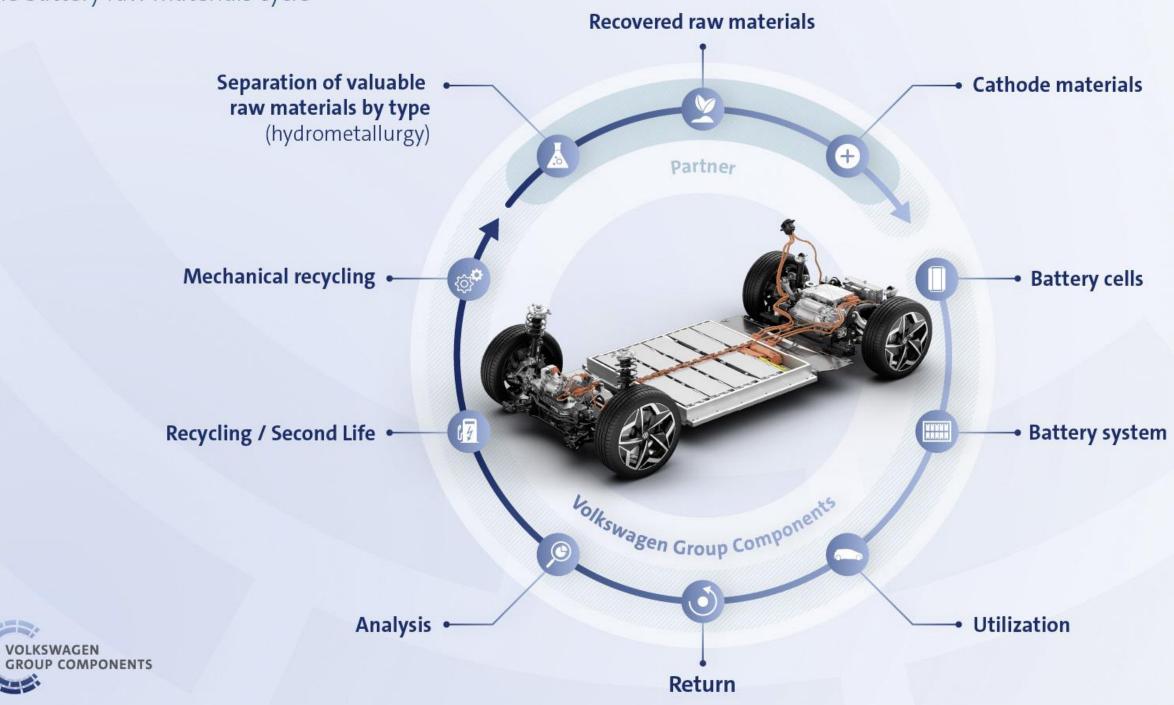
LIBs Recycling

Resource extraction



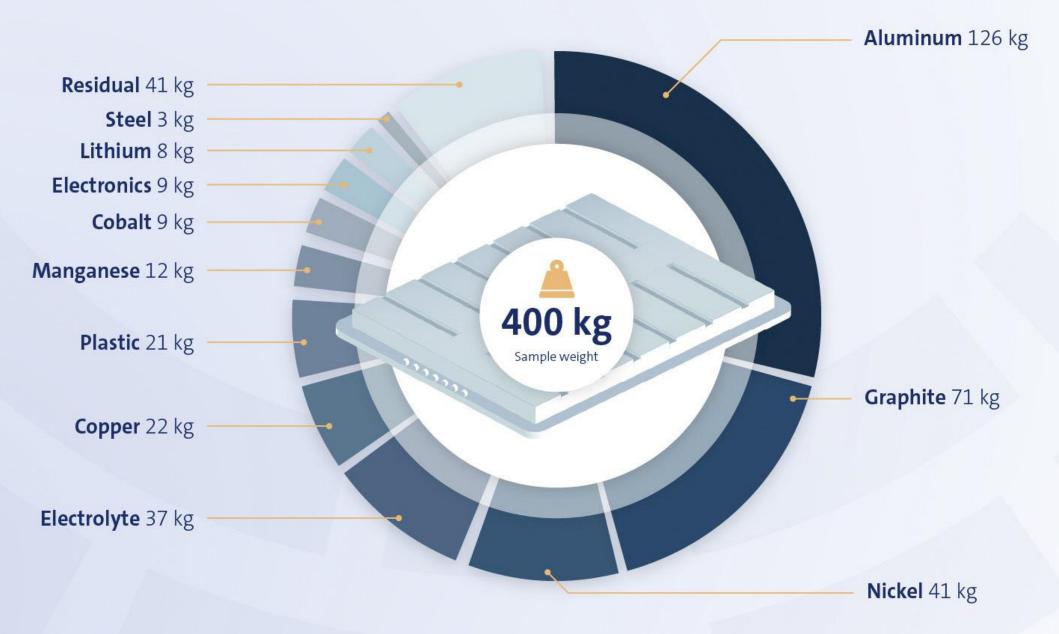
After the use is before the use

The battery raw materials cycle



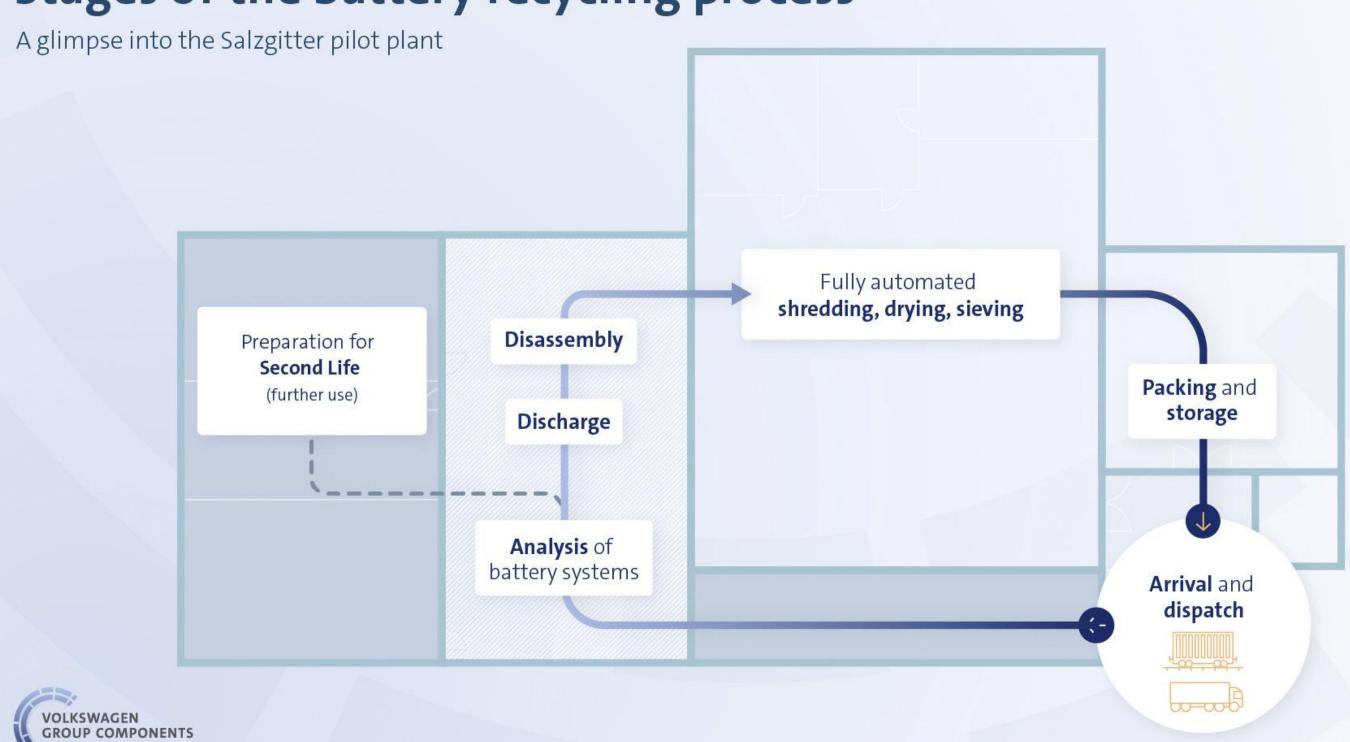
From old to new

So much valuable content is contained in a single battery





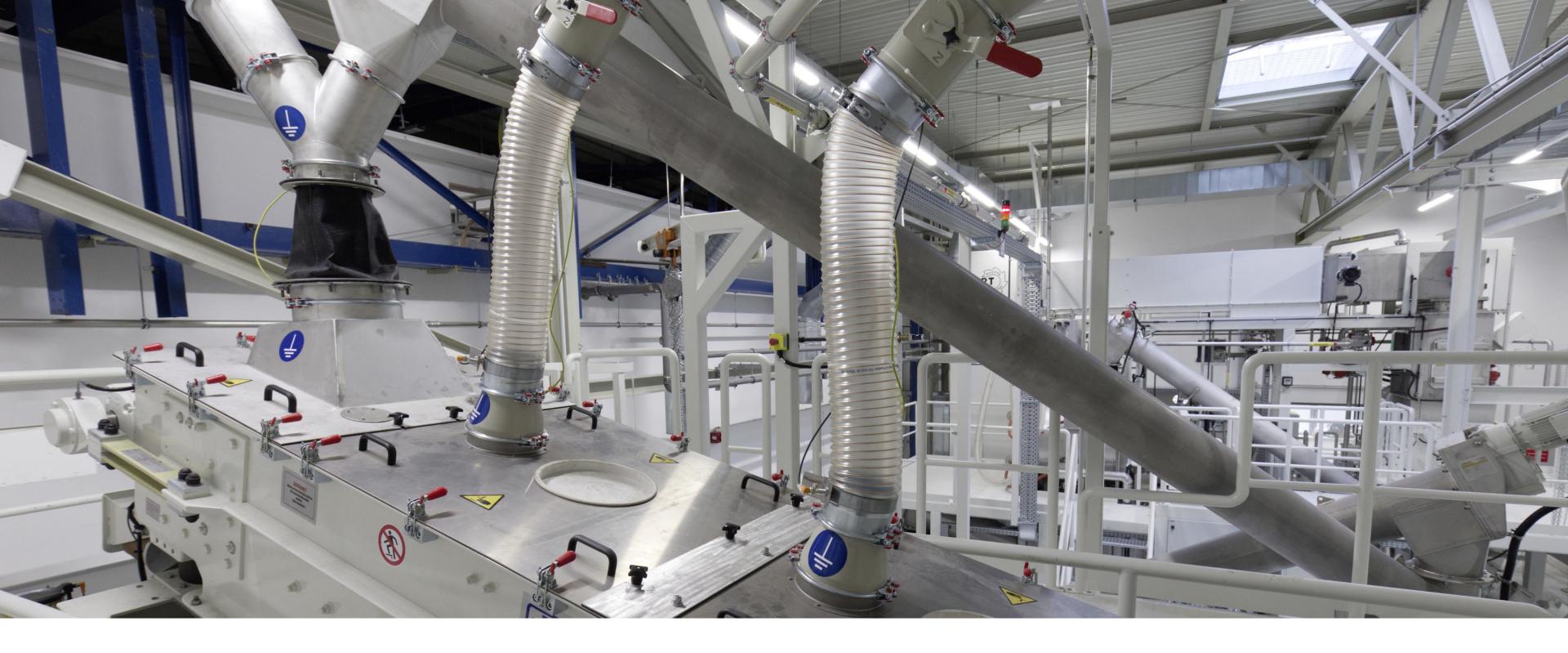
Stages of the battery recycling process



Raw material recovery

Step-by-step, valuable components are extracted from the battery during recycling





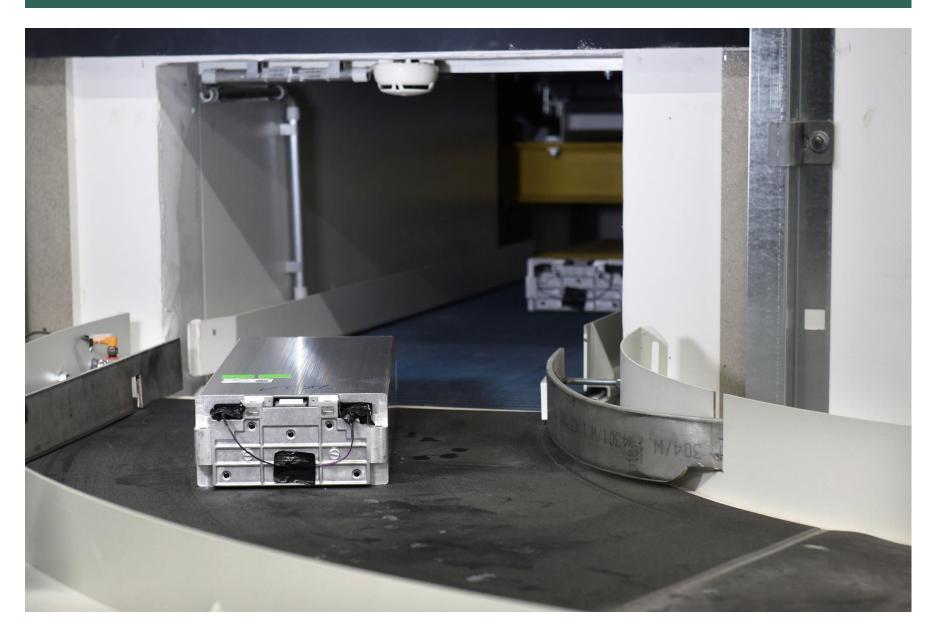
LIBS recycling plant at Volkswagen AG, Salzgitter

The first industrial lithium ion battery recycling plant worldwide was supplied by URT to Volkswagen AG. The plant is in operation since 2020.

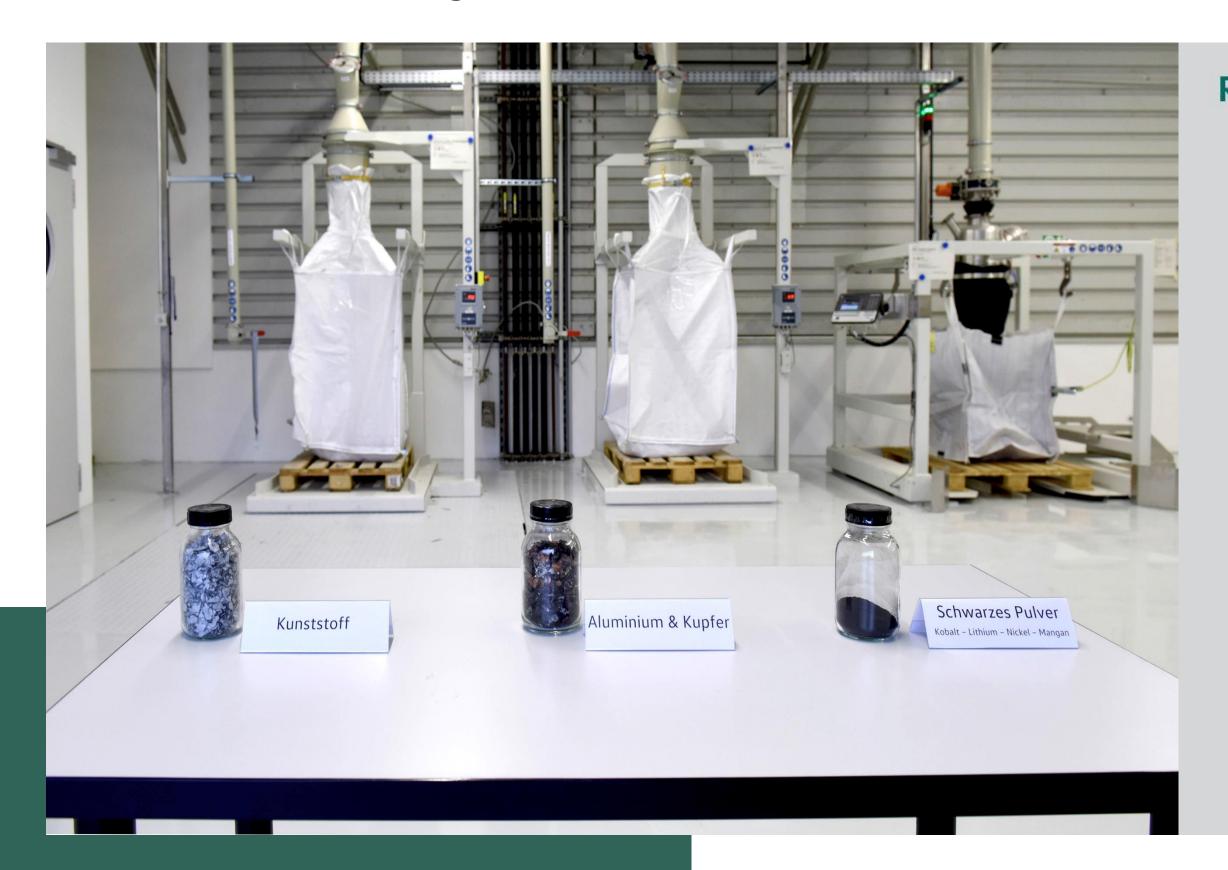
Lithium Ion battery recycling

Volkswagen AG, Salzgitter





Resource recovery



RECOVERY:

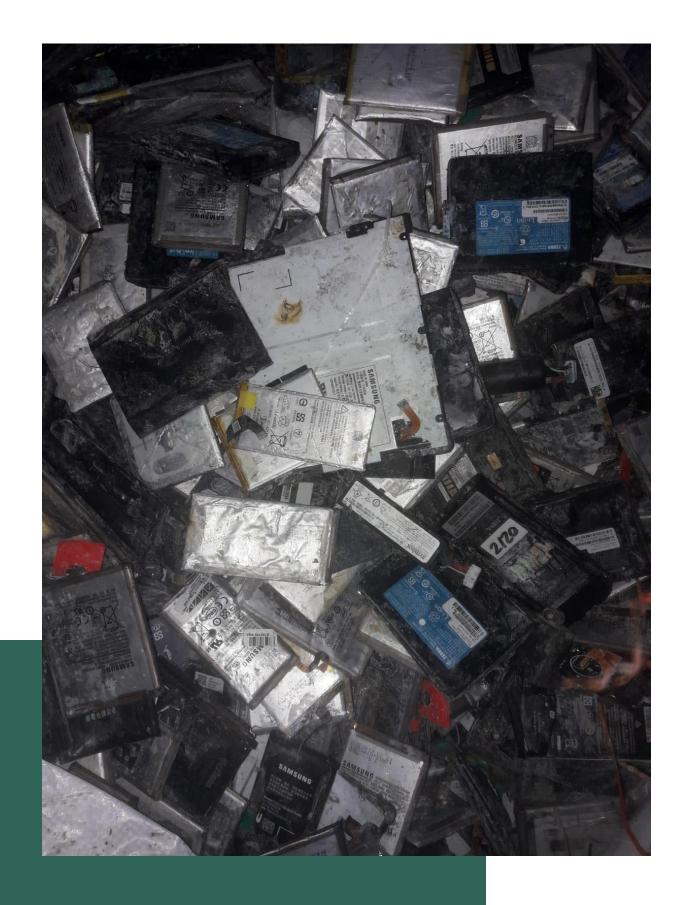
- > Black mass
- **>** Electrolyte
- > Aluminum granulate
- > Plastics granulate
- > Ferrous particles
- > Aluminum foil
- > Plastics foil
- > Copper foil

Output fraction examples



Black mass

LIBs from WEEE appliances





Thank you!

E-MAIL

info@urt-recycling.de

