

# Metal recovery from spent batteries

Internal Reference: RUB-9458-22

#### Summary

A new, environmentally friendly process for low-cost extraction of cobalt, nickel, and manganese salts from spent battery materials (black mass).

#### Benefits

- Full solubilisation of Co from LiCoO₂ achieved in minutes at room temperature, compared to hours at -90°C for current hydrometallurgy techniques
- Continuous, closed-loop process allows re-use of reagents with zero waste
- No need for sacrificial agents, organic acids, or H<sub>2</sub>O<sub>2</sub>
- Viable for existing and emerging LIB cathode materials

## Commercial applications

Commercially scalable technique can readily replace conventional acid-based hydrometallurgy for recovery of Co, Ni and Mn salts

### Collaboration / License Opportunity

- · We are seeking partners to help commercialise and/or license this technology
- To learn more, contact: <u>margaret.wilkinson@enterprise.cam.ac.uk</u> matt.wells@enterprise.cam.ac.uk

