



VRA Member Meeting



Robin Brundle Presenting
Director + Co-Founder
of Recyclus

*First Industrial Scale Li-ion
Recycling Facility₁ in UK*

Introduction

- Growing need for safe handling and cost-effective disposal options for Li-ion batteries
- Establishing a circular economy for used battery materials, offering sustainable solutions



Li-ion Controlled Fire

Automotive, 6x modules (5 kWh)



Rising EV Battery Fires in the UK



ESTABLISHED 1985
southlondonpress



Battery recycling warning after fires in waste in Devon

Lithium battery warehouse goes up in flames

Blaze raises concerns about storage of components known to spontaneously combust

LAMBETH **NEWS**

'Plumes of smoke covered the neighbourhood for days': Campaign raises the alarm on battery fires as cases rise

BBC
NEWS



News

Swindon Audi dealer forced to temporarily close after huge fire involving electric vehicle

- Dealership remains closed after huge fire breaks out at Swindon Audi
- Blaze began in vehicle workshop and involved an electric vehicle
- Spokesman for Audi UK says nobody was injured in Friday's fire

Five Ways to Deal with Damaged EV Batteries

- 1 Educating staff & customers about the problems
- 2 Training your technicians to assess the damage
- 3 Creating a safe space to store damaged batteries
- 4 Upping your storage and transportation game
- 5 Recycle is now the preferred option

UN Certified and ADR
P911-compliant

<100°C max box
surface temperature

20 kWh energy
rating

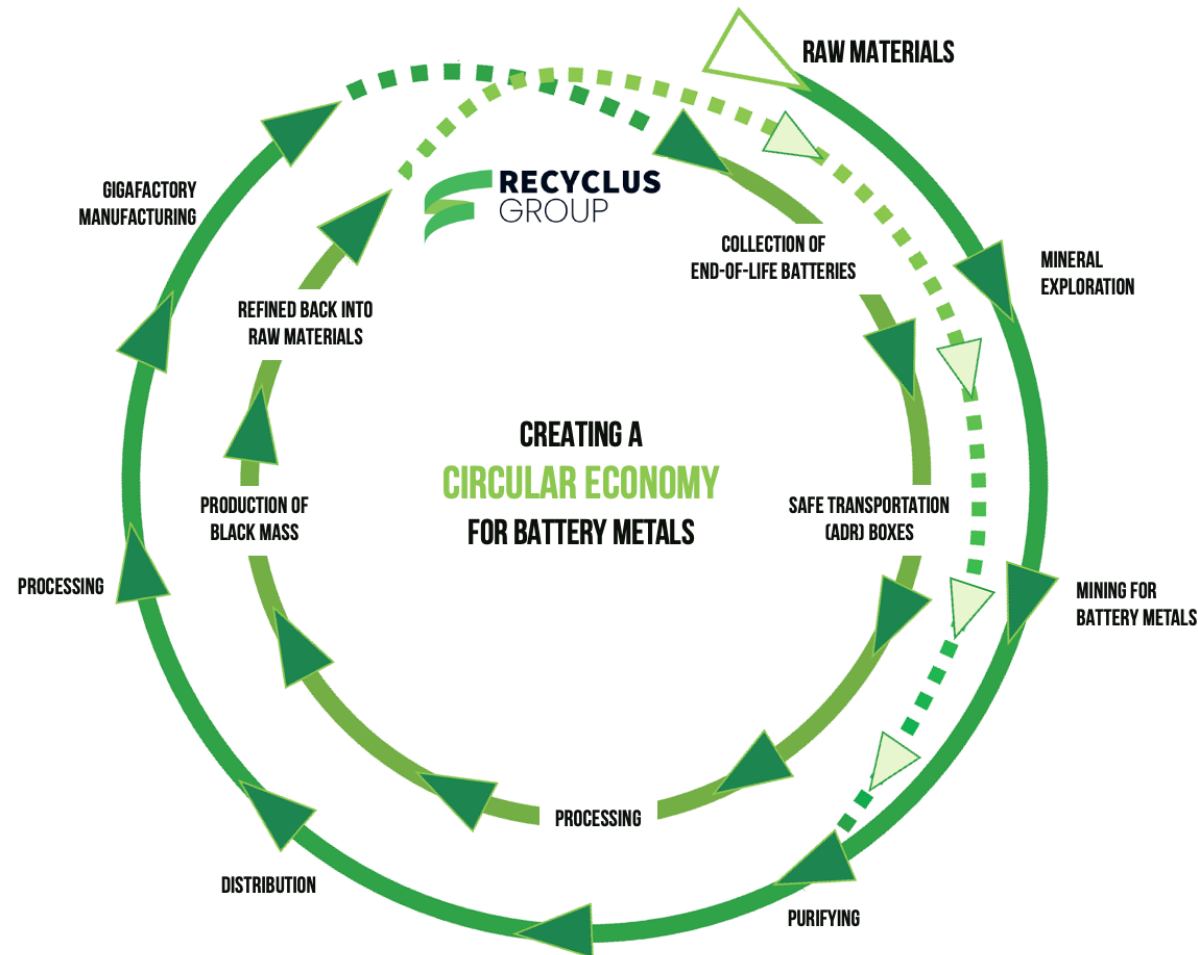


LiBox Fire Test (20 kW)

Before, test, after...



Creating UK's Circular Economy for LIBs

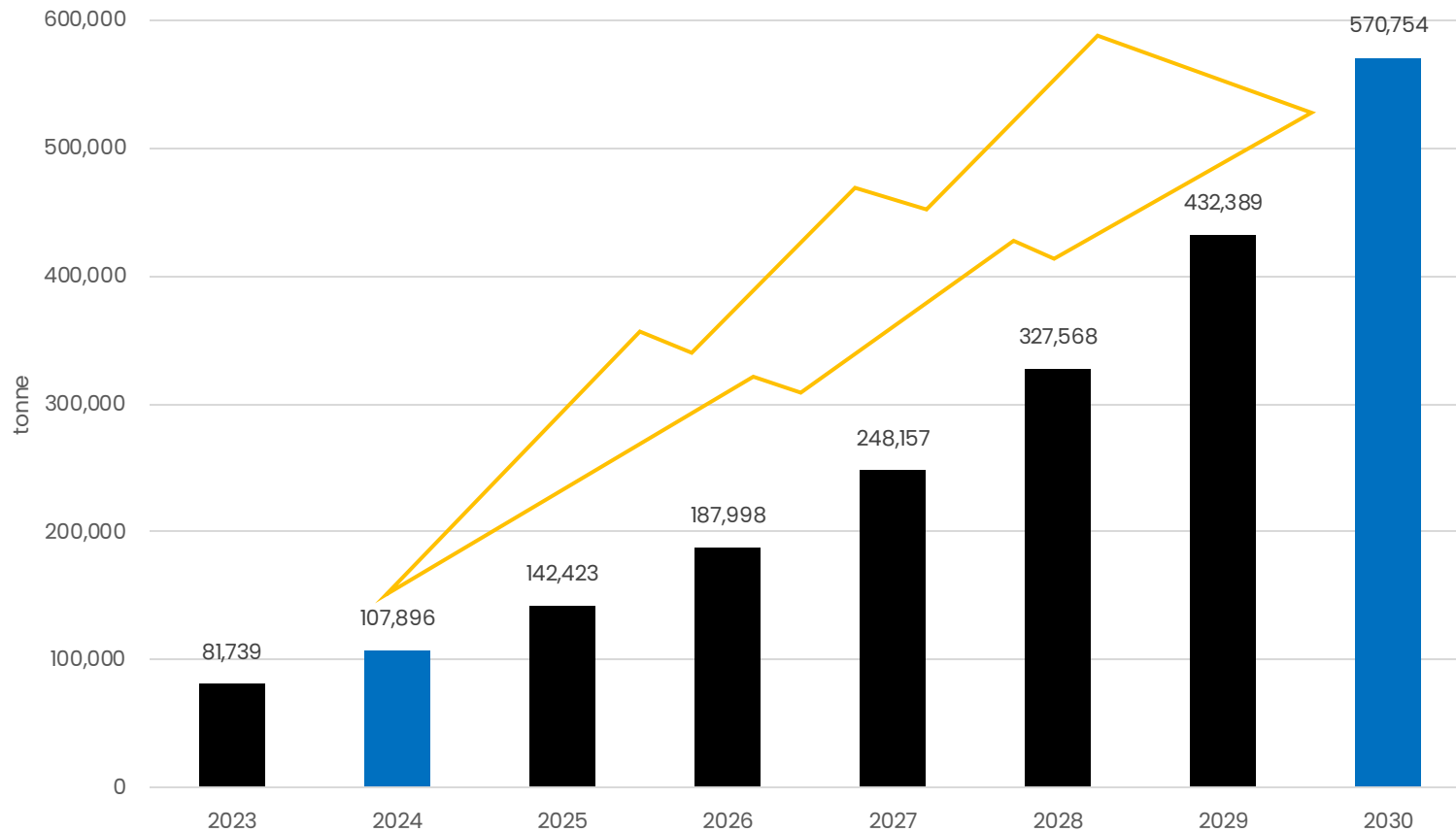


- UK recycling – black mass
- Can secure up to 20% of key battery metals for OEMs
- UK supply security issues
- Ethical concerns- child labour in DCR
- UK does not cornerstone mining projects
- China- largest producer + consumer Li-ion batteries
- Recycling can supply up to 45% of battery metals
- Insurance, academia & recycling are prioritising battery recycling before reuse

570,000 Tonnes of Waste Li-ion Batteries/Annum



5-fold in next 6 years



- Forecasts
- UK legislation
- Stockpiling costs + safety



Battery Recycling & The Automotive Industry



- Recycling reduces carbon footprint
- Battery recycling is essential to the automotive industry
- EU Battery Regulation: June 2023
- UK legislation for end-of-life battery feedstock



Supporting Increased Producer and Consumer Responsibilities



- Award-winning mobile recycling solution
- Trucks with 0.5, 1.0, and 2.0 tonnes/hr capacity
- 4-year EngD program @ WMG
- Development team of industry leaders





Thank You

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