ACE Green technology:
Sustainable lead recycling into the future

Farid Ahmed | ACE Green Recycling

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Global electrification is impossible without sustainable battery materials



Lead battery recycling

An established market still offering growth

Huge and increasing lead battery market

USD 75 bn

Lead battery market size

Growing end-market demand



Telecom towers



Uninterruptible Power Supply (UPS)

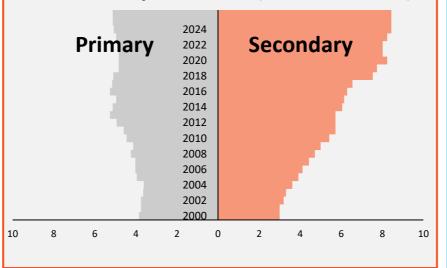


Transport & automotive

Recycling supplies 65% of the global lead

- ☑ Established collection infrastructures and supply chain
- ✓ Negligible growth in primary mine output

Global lead production (million tonnes)



Traditional smelters: how sustainable in the long term?



Emissions to air



Pollutants to water



Solid waste



Higher energy demands



Less safe working environment

Source: ACE internal assessments

Significant headwinds from tightening regulations

Changes will drive increasingly localised battery processing

Lead batteries



Target > **95**% recovery rate for lead batteries



Californian and New York require retailers to accept and recycle customer returns





Lead batteries

Target recycling rates:



- Portable 63% by 2027; 73% by 2031;
- Light Means of Transport –
 51% by 2027; 61% by 2031



Approaching **100%** of automotive batteries recovered





Target to collect > 50% of waste lead batteries in pilot areas

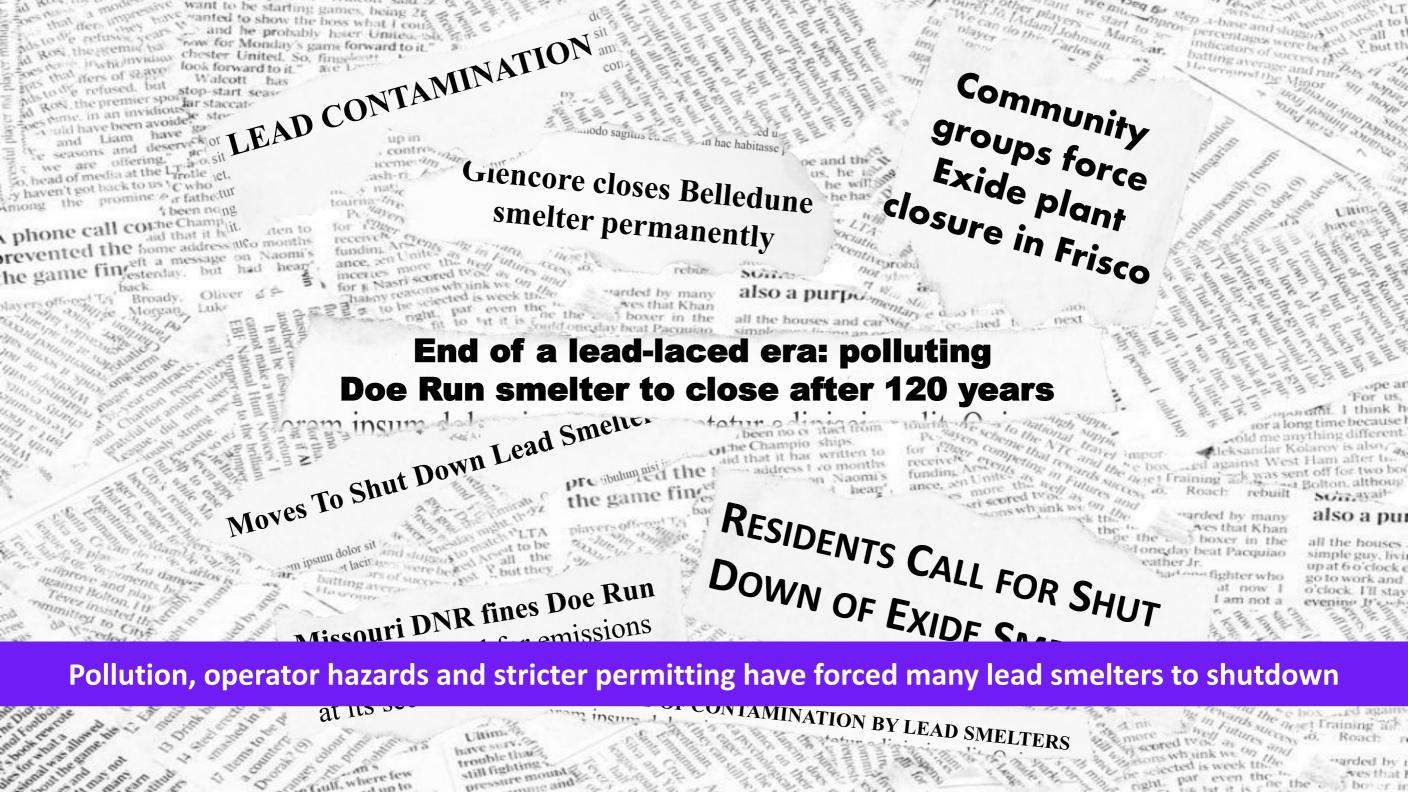
Enhanced management



system for lead battery collection; incorporation of solid waste management









GREENLEAD® technology revitalising lead recycling Efficient, safer, greener – and with better costs

		GREENLEAD® recycling technology	Traditional smelting
		ACE Green Recycling	
Energy	Energy requirement	Low	High
	Renewable power	Yes	No
Operation	Operating environment	Room temperature	> 1000 °C
	Modular	Yes	No
	Health & safety risks	Close to nil	Elevated
Environmental impact	GHG Emission	Zero	500-1000 kg per tonne of batteries
	Oxygen release	45 kg per tonne of batteries	None
	Toxic waste creation	Very low volume	Higher volume
%	Lead metal recovery %	> 99%	95-98%

ACE Green – a global leader in sustainable battery recycling



Compelling environmental & economic advantages

- Strong environmental credentials support future regulations
- Zero Scope 1 carbon emissions, zero toxic waste



Proven commercial technology

- Enables domestic supply chain and retention of critical metals
- Superior recovery rates over 99% lead recovery
- IP portfolio with over 100 patent filings



Supportive political & economic tailwinds

- National security, economics and sustainability are driving onshoring of battery production
- Aligns with focus on prioritising domestic supply chains and manufacturing



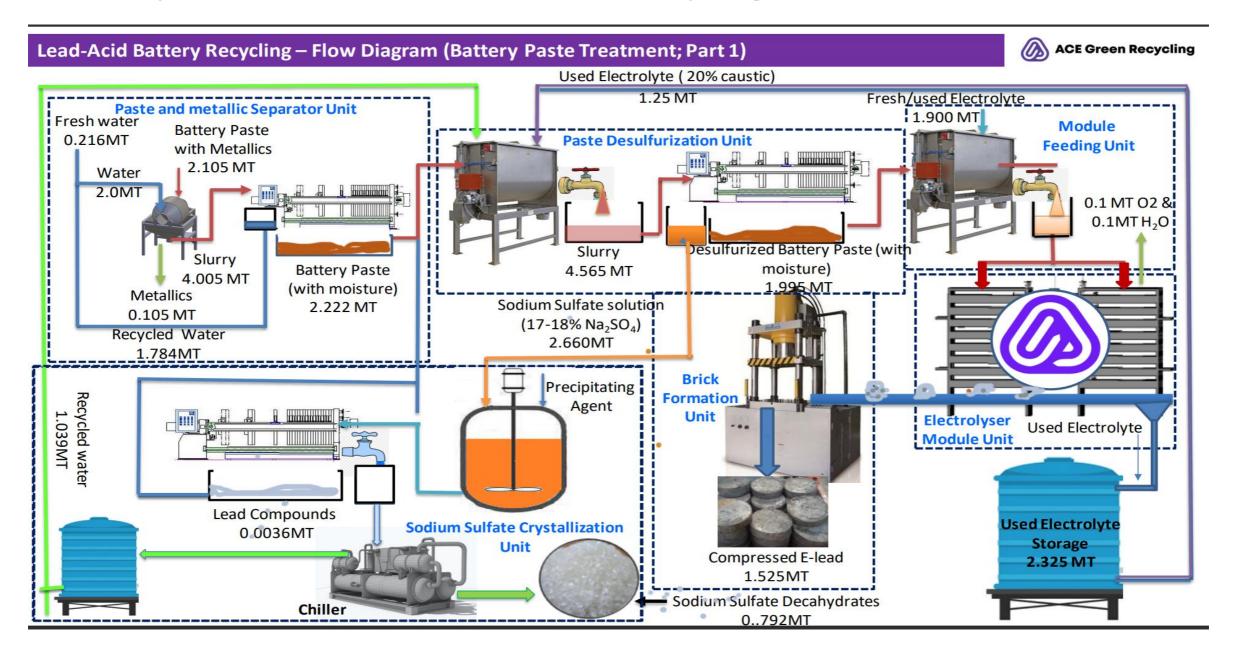






The ACE technology

Successfully commercialised sustainable lead recycling



ACE is quietly transforming how lead is recycled



ACE electrolyser modules



ACE technology deployment

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