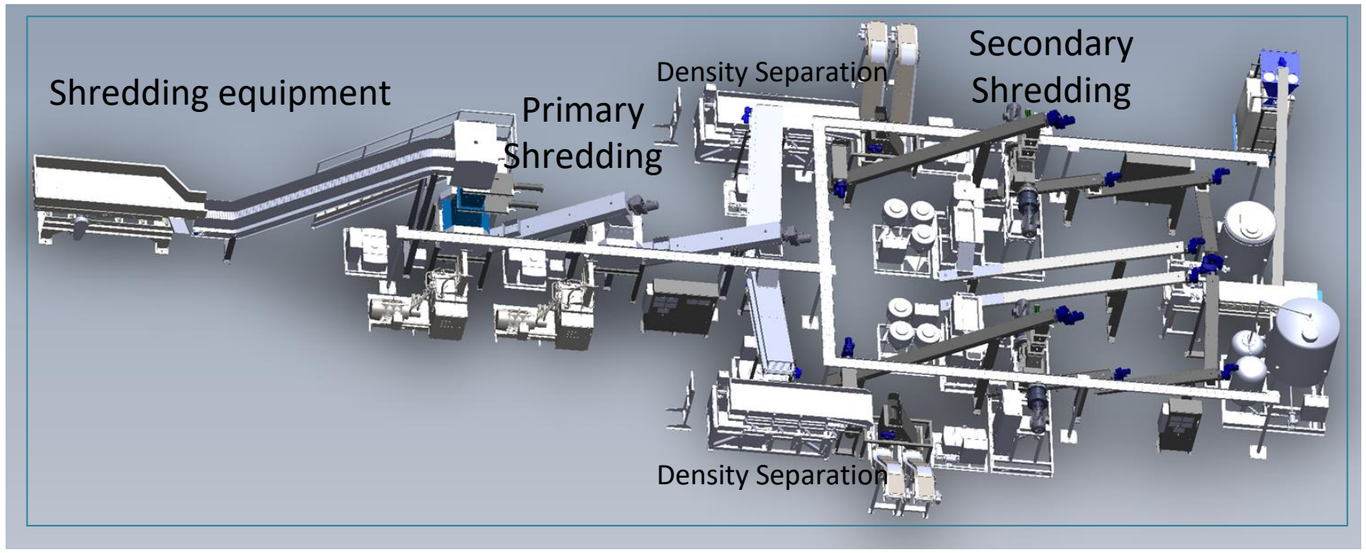
UK Shredder Overview

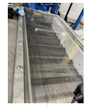


Overview picture from Germany currently commissioning the plant.

ecobat SOLUTIONS








Controlled Atmosphere (Nitrogen & Water)

Input

Whole Batteries
Production Scrap, etc
Haz & Non-Haz

Primary Shredding

Density Separation

Secondary Shredding

Dewater

Drying Auger

VOC Collection Points

Scrubber

Carbon Filters

Carbon Filters

Water Recycle / Loop

Clean water tank

Wave Conveyor

'Dirty' water tank


Dry shred separation

Dust Collection Points

Density Separation

Vibratory Separation

Turbomill

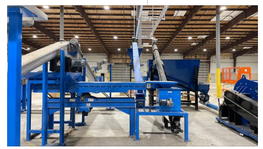
Dosing Hopper

Magnetic Separation

Al foil, Copper, Plastic, Paper

Black Mass (BM)





Steel

Mixed Ferrous (Fe/Ni)

Baghouse

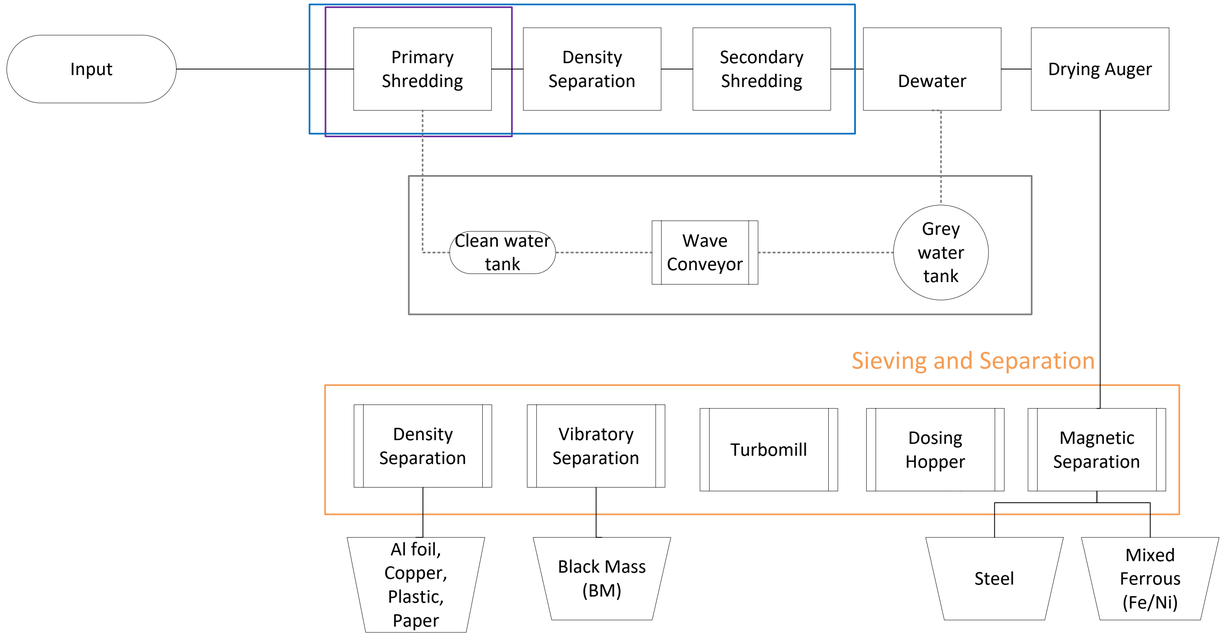
Stack

Due to the chemical composition and similar characteristics between the waste streams entering the plant (deemed hazardous and non-hazardous), the plant will not be shut down, cleaned between processing of these materials. Risks are eliminated of processing both materials, the hazardous materials 16 06 03 for example (components of the lithium battery), the non-hazardous materials 16 06 05 (lithium battery).*

**Images taken from Ecobat German plant for visual purposes.*

Shredding Non-Hazardous
Shredding Hazardous

Shredding Hazardous



- Shredding non-hazardous waste e.g. 16 06 05 (shredding of whole lithium batteries) – This will be covered by a directly associated activity for metal shredding at less than 75 tonnes per day for recovery of non-hazardous waste (AR10)

- Shredding hazardous waste - this will be covered under a new repeat activity S5.3 A(1)(a)(ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment.

- Second stage smaller shredding unit processing hazardous waste containing metals (output from the larger shredder) – This will be covered under a new repeat activity S5.3 A(1)(a)(ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment.

- Sieving and separating for onward recovery will remain as S5.3 A(1)(a)(ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment (under activity AR4).