

Li-ion Battery Recycling Solution

- Physical / Mechannical Process
- Evaoperation / Pyrolysis
- Efficiency Separation
- Carbon Footprint

01

Jiangye Battery Recycling Solution

Eco-Friendly / Carbon footprint Reducing / Efficient Recycling Rate

Jiangye LiBs Recycling Solution

Suitable for Different cells

Chemistry & Geometry



EV Battery



Production Scrap



3C Battery



Punch Battery

Jiangye process is effective for the treatment of all types of battery wastes:

modules,cells, small packs and **production scraps**

Jiangye LiBs Recycling Solution

Live Crushing & Smart Pyrolysis /Evaporation

Jiangye Systems Add more Value to Battery Scrap

Certified Technology Export

30+ Market Proven LiBs Recycling references with 97% Recovery Rate

Jiangye LiBs Recycling Solution

Technology and Innovation

Live-Shredding

Proprietary Technologies

Industrial Continous Production

Processing Efficienncy
Increased by
30%

Airlock system : Ensure sealing of the cutting & Evaporation and/or Pyrolysis chamber

Jiangye LiBs Recycling Solution

Technology and Innovation

Low Carbon Recycling

Medium-low Temperature Pyrolysis
Reducing Energy Comsuption

Technology Driven Innovation

Exhaust Treatment Patent Technology
Carbon-based Pollutant Treatment
Fluoride, **NOx**(Nitrogen oxides), **VOC**(volatile organic compounds)

Jiangye LiBs Recycling Solution



Efficiency and Cost

Lower energy consumption **M**inimize **O**peration Cost

Lower initial costs

Long-term Efficiency gains may offset higher initial investments

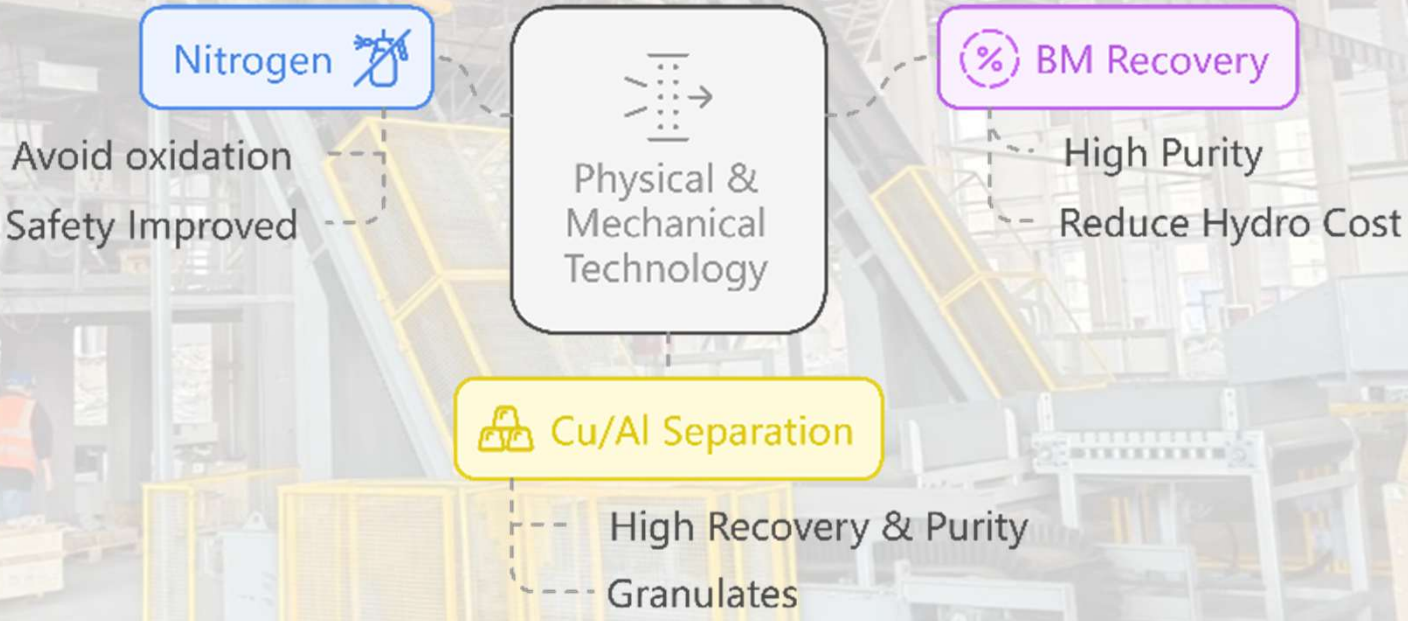
Module Design

OEE 92%

Jiangye LiBs Recycling Solution

Efficiency and Cost

Pyrolysis + Physical / Mechanical Shredding & Separation



Jiangye LiBs Recycling Solution

Environmental Impact

Clean Low Carbon Operation

30% CO2 Emission Reduced

Social Impact Good image



Jiangye LiBs Recycling Solution

Outputs

Total Recovery rate: **97%**

Recovery Rate: 97%
Cu/Al in BM: <2%
Purity:up to 97%



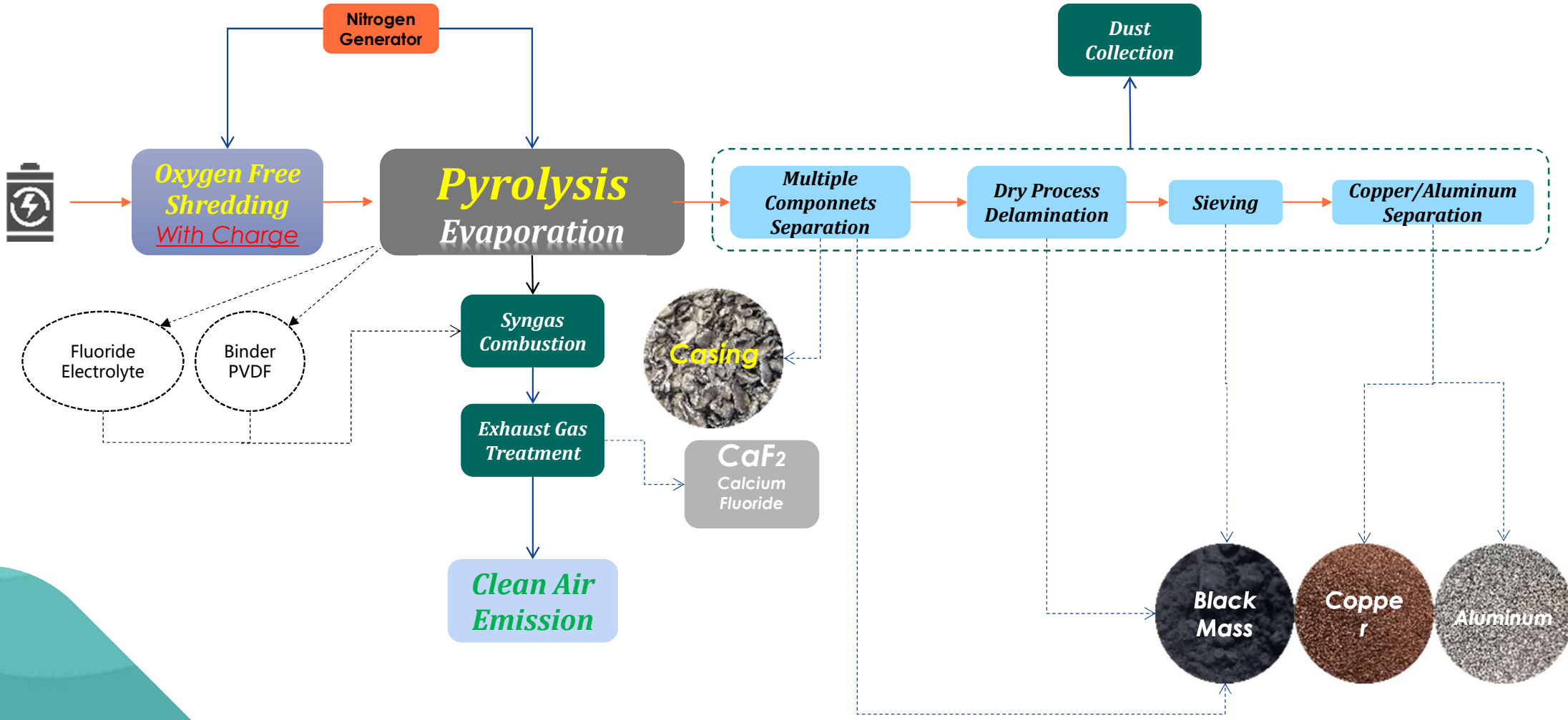
Recovery Rate: 97%
Purity:up to 97%
Copper Granulates



Recovery Rate: 92%
Purity:up to 90%
Al Granulates



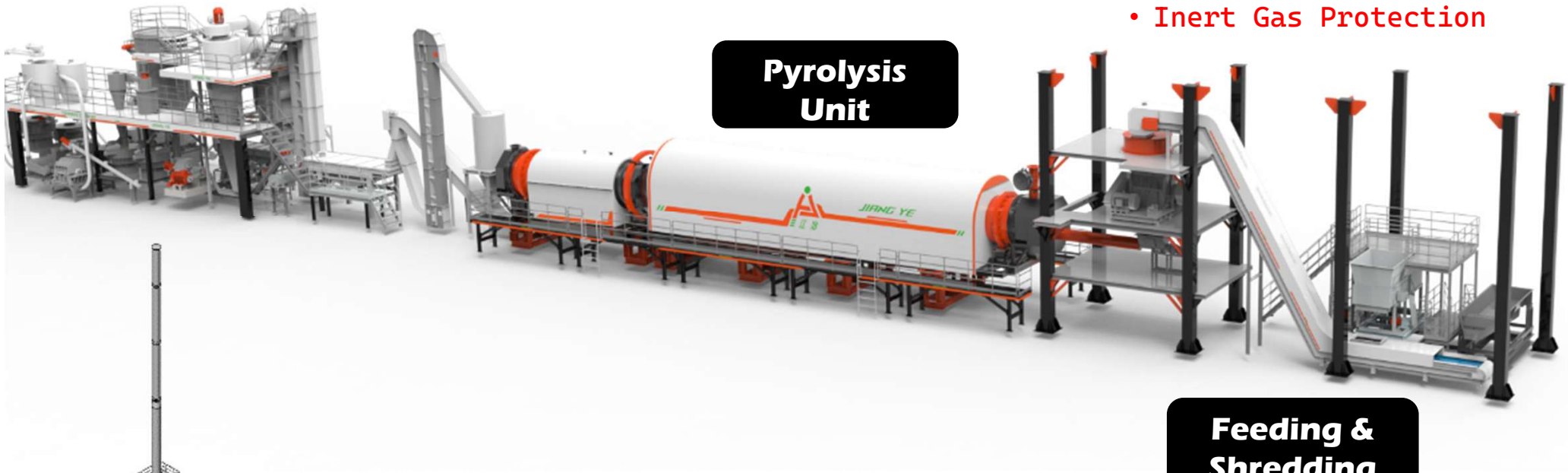
Jiangye LiBs Recycling Solution



Jiangye LiBs Recycling Solution

Pyhsical/Mechanical Separation & Sieving

- Air-Lock
- Inert Gas Protection



Pyrolysis Unit

Feeding & Shredding

Dust Collection & Exhaust Treatment

Jiangye LiBs Recycling Solution



Feeding



Inert Shredding
Air Tight



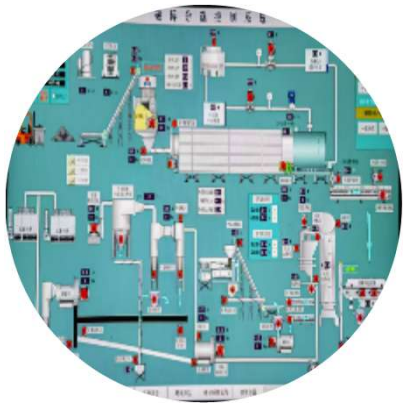
Inert Pyrolysis
Air Tight

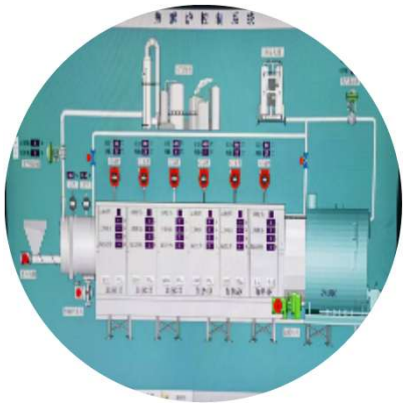


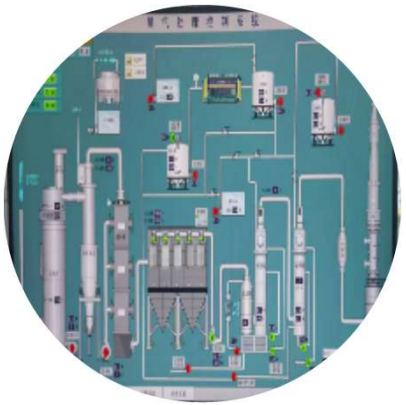
Delamination
Separation



Exhaust
Treatment



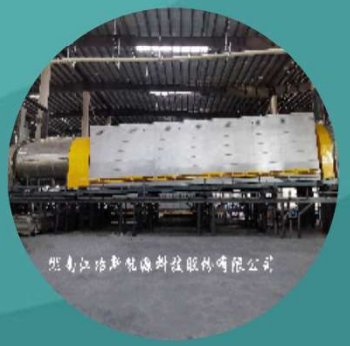




Visual Control Interface

Jiangye LiBs Recycling Solution








Black Mass



BM Recovery Rate: **97%**
Purity:up to **97%**
Cu/Al in BM: **<2%**

Copper



Copper Granulates
Recovery Rate: **97%**
Purity:up to **97%**

Aluminium



Aluminium Granulates
Recovery Rate: **92%**
Purity:up to **90%**

Battery Casing



Jiangye LiBs Recycling Solution

Design Capacity

0.5 TPH

1.0 TPH

1.5 TPH

2.0 TPH

Tailer-Made avaliable



References


国轩高科
EVE 亿纬锂能
奥德集团 AODE GROUP
天能股份
骆驼股份 CAMEL GROUP
LEOCH 理士电池 Leach Battery
PCCOOLER
Narada 南都
振兴集团 ZHENXING GROUP
万洋集团 WANYANG GROUP
Humon 恒邦股份
BNMC 白银有色集团股份有限公司 BAIYIN NONFERROUS GROUP CO,LTD
天津东邦铅资源再生有限公司 TIANJING TOHO LEAD RECYCLING CO.,LTD CHINALCO
岷山环能高科股份公司
贵州火麒麟能源科技有限公司
AZMONBAT BATTERIES
河南中鑫新材料有限公司 HENAN ZHONGXIN NEW MATERIALS CO.,LTD.
JINCHUAN 金川 金川集团股份有限公司 JINCHUAN GROUP CO.,LTD.
JAIN METAL GROUP recycle today, greener tomorrow.
HKBR



Part of References in Operation

No.	Company	Capacity	Remark
1	Hunan Anhua ***	10,000TPY	Complete Shredding+Pyrolysis+Separation(SPS)
2	Gansu Lanzhou ***	5000TPY	Complete Shredding+Pyrolysis+Separation(SPS)
3	Shannxi New Energy	5000TPY	Complete Shredding+Pyrolysis+Separation(SPS)
4	Hunan Zhuzhou	5000TPY	Complete Shredding+Pyrolysis+Separation(SPS)
5	Hunan Kaidi	5000TPY	Complete Shredding+Pyrolysis+Separation(SPS)
6	Ruilong Tech	10,000TPY	Complete Shredding+Pyrolysis+Separation(SPS)
7	Ganzhou Haohai New Energy	50,000TPY	Complete Shredding+Pyrolysis+Separation(SPS)
8	Jiangxi 3-T Lithium	10,000TPY	Complete Shredding+Pyrolysis+Separation(SPS)
9	Ganzhou Henghong New Energy	10,000TPY	Complete Shredding+Pyrolysis+Separation(SPS)
10	Inner Mongolia New Energy	10,000TPY	Feasibility Study + EIA Complete Shredding+Pyrolysis+Separation(SPS)
11	Hefei GOTION HI-TECH	50,000TPY	2 Sets Complete Shredding+Pyrolysis+Separation(SPS)
12	Guangxi New Material	10,000TPY	Complete Shredding+Pyrolysis+Separation(SPS)
13	Hubei Yiwei JinQuan New Material	20,000TPY	2 Sets Complete Shredding+Pyrolysis+Separation(SPS)
14	Henan New Material	10,000TPY	2 Sets Complete Shredding+Pyrolysis+Separation(SPS)
15	Yunnan New Energy	12,000TPY	Feasibility Study + EIA Complete Shredding+Pyrolysis+Separation(SPS)

Jangyec

Thanks for Your Time

Recover. Reuse. Repeat

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WhatsApp

Jiangye