

YouPower

**Service partner for lithium
end-of-life batteries
Recycling**



Battery

Discharging



- Quick and safe discharging – capacity for 216.000 modules per year in discharging only
- Delivered in short circuit
- Renault LG modules





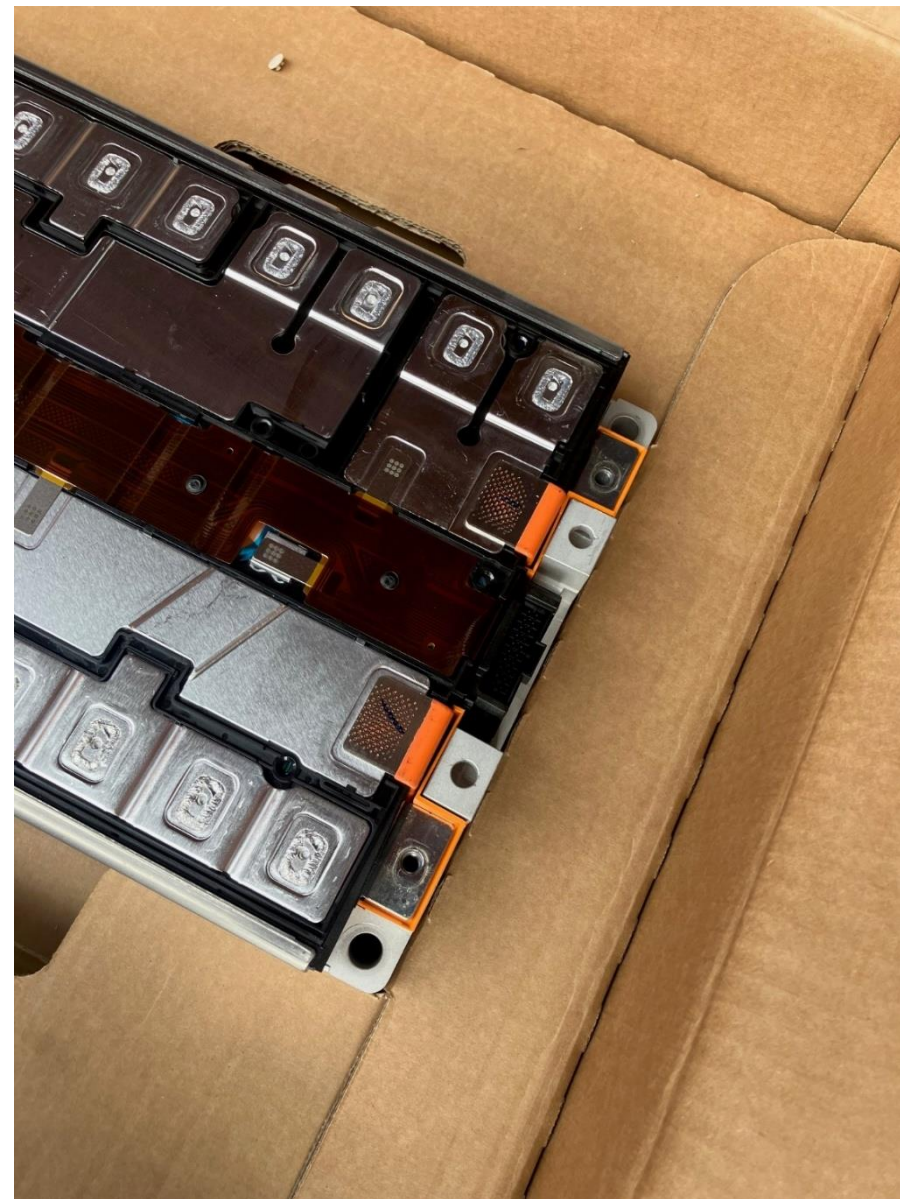




BATTERY

DISASSEMBLY







- Dismanteling to poach level with separation of + and –
- ADR packaging ready for transport and processing in pyro or other
- Fully discharged modules



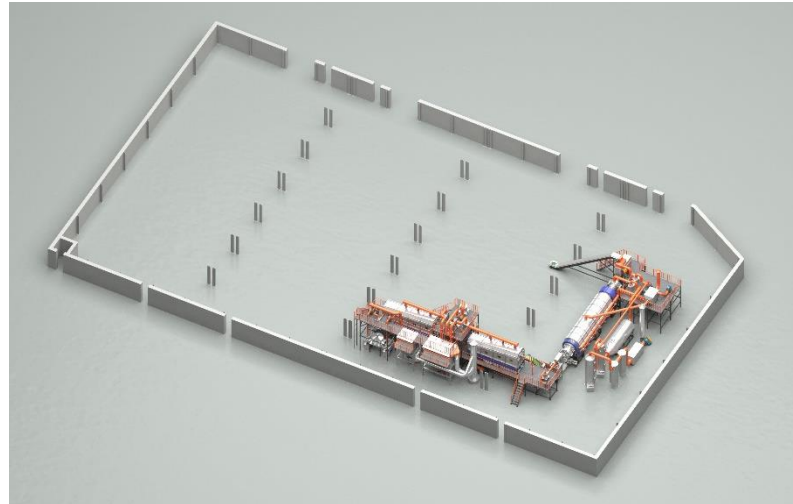


Black

Mass



- Battery pack shredding through pyro furnace
- High quality black mass production free of electrolyte
- Capacity 500kg per hour
- Up to 3000 Ton per year shredding capacity
- Create a share in sales of the black mass



TABEL 1 : Analyseresultaten / Verslagnr 23/360

Staalcode	Ag	Al	Ba	Ca	Cd	Co	Cr	Cu	Fe
	mg/kg	in %	mg/kg	mg/kg	mg/kg	in %	mg/kg	in %	in %
You Power St. Dev.	< 2.5	1.80	71.3	441.4	13.8	1.63	interfer	0.96	1.46
		0.02	4.4	10.8	0.2	0.02		0.01	0.02
	K	Li	Mg	Mn	Na	Ni	Pb	Sr	Zn
	mg/kg	in %	mg/kg	in %	in %	in %	mg/kg	mg/kg	mg/kg
You Power St. Dev.	198.5	2.53	508.2	29.24	0.26	4.15	interfer	4.2	34.3
	6.0	0.07	10.8	0.14	0.01	0.06		0.2	1.1

Permits



Overall 191211* 16 06 05 & 16 01 21* are most common

Batterijen	20-21-29-35-36	Production waste from lithium ion batteries and nickel metal hydride batteries	Waste obtained from the production of lithium ion batteries and nickel metal hydride batteries	wastes from the production, formulation, supply and use of inorganic salts and metal oxides	afval van de productie, formulering, levering en gebruik van anorganische zouten en metaaloxides	06 03 15*
						06 03 13*
				wastes from inorganic chemical processes not otherwise specified (Carbon Black)	afval van niet elders genoemde anorganische chemische processen (Carbon Black)	06 13 03
				waste from aqueous liquid containing ink	waterig vloeibaar afval dat inkt bevat	08 03 08
				wastes ink from inorganic chemical processes not otherwise specified	afvalinkt van niet elders genoemde anorganische chemische processen	08 03 13
						08 03 12*
				sludge and filter cake containing hazardous substances	slib en filterkoek die gevaarlijke stoffen bevatten	11 01 09*
						11 01 10
				wastes from aqueous rinsing liquid	afval van waterige spoelvloeistof	11 01 11*
						11 01 12
				wastes from chemical surface treatment and coating of metals and other materials, wastes not otherwise specified	afval van chemische oppervlaktebehandeling en coating van metalen en andere materialen, niet elders genoemd afval	11 01 99
						11 01 98*
						12 01 01
						12 01 02
						12 01 03
						12 01 04
						12 01 99
				waste from the scrapping of end-of-life vehicles, hazardous parts	afval van de sloop van afgedankte voertuigen, gevaarlijke onderdelen	16 01 21*
			16 01 22			
			16 01 99			
	electrical and electronic waste and components of waste	elektrisch en elektronisch afval en onderdelen van afval	16 02 13*			
			16 02 14			
			16 02 15*			
			16 02 16			
			16 03 03*			
			16 03 04			
	rejected batches and unused products	afgekeurde batchen en ongebruikte producten				
	separately collected electrolyte from batteries and accumulators	gescheiden ingezamelde elektrolyt uit batterijen en accu's	16 06 06*			
	discarded organic chemicals consisting of or containing hazardous substances	afgedankte organische chemicaliën die uit gevaarlijke stoffen bestaan of deze bevatten	16 05 08*			
	batteries and accumulators	batterijen en accu's	20 01 33*			
other batteries and accumulators	overige batterijen en accu's	16 06 05				
27	Shredding and Black Mass	Shredding and Black Mass	waste from the incineration or pyrolysis of waste	afval van de verbranding of pyrolyse van afval	19 01 11*	
					19 01 12	
					19 01 17*	
			non-ferrous waste from the shredding of metal-containing waste	non-ferroafval van de shredding van metaalhoudend afval	19 10 02	
					19 10 03*	
					19 10 05 *	
		19 12 03				
		19 12 11*				
		19 12 12				
21-23-26	Lithium-ion batteries	End-of-life or rejected lithium-ion batteries			16 01 21*	
					20 01 33*	
					19 12 11*	
					16 06 05	