

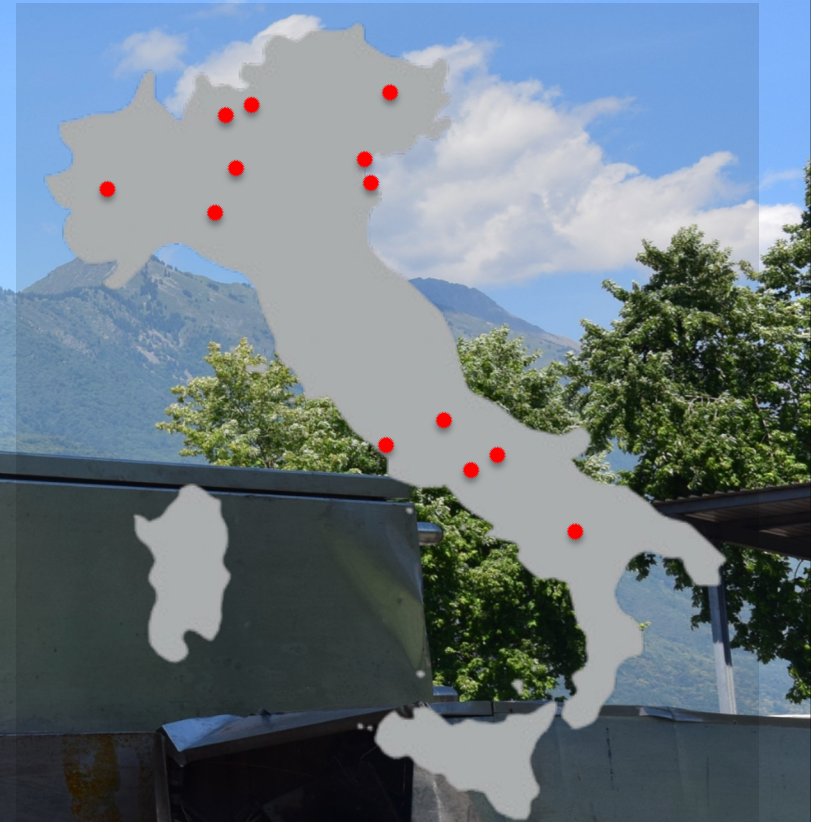


May, 2026

Industrial battery recycling
and scale applications

Seval Group at a Glance

- Italia leader operator in WEEE and battery waste recycling, with 13 locations all over the country
- 170.000 tons per year treated, over 500 people, over 125-million-euro turnover
- Vertically integrated treatment system with first and second treatment plants, logistic
- Around 40,000 MT of exhausted batteries collected and sorted in over 15 years of experience
- Over 30 own trucks fleet, 3,000 roll-off containers, thousands of ADR drums and paloxes



Over 15 years of experience in battery recycling

- Collection all over Italy and bordering countries
- Automatic sorting of portable domestic batteries with x-Ray technology
- Selection purity over 99.95%
- Internal recycling of:
 - Alkaline and zinc carbon cells
 - 6V packs
 - Primary lithium button batteries
 - Li-ion batteries



First industrial plants in Italy

Seval plant

Capacity: 15,000 ton/h
Scheduled opening: February 2026
Duesenfeld process

Riplastic plant

Capacity: 15,000 ton/h
Scheduled opening: May 2026
Duesenfeld process



Proven Duesenfeld technology, industrial scale LIB recycling process

Duesenfeld process steps

Discharging machines

Deep fast discharging*

Reclaimed residual energy

Disassembly

Metal frames, BMSs, cables, components

Mechanical line

Controlled atmosphere shredding

Elektrolites vacuum drying*

Milling and sorting

Electrolytes, black mass, copper, alluminum, plastic

Up to 50%

of total energy of the process
coming from discharged batteries

NMC

LFP

LMO

NCA

LCO

NA

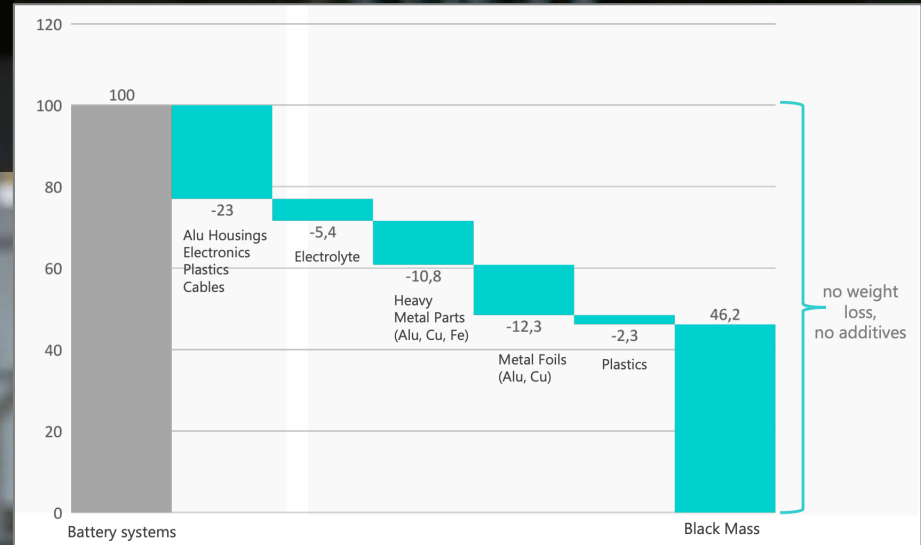
LTO

* Covered by **Duesenfeld** patent (licence agreement)

Environmental friendly, the best recycling rate

Electrolytes are distilled, not destroyed with a thermal process

LiPF₆ stay in original structure



Kupferfolie (Anode)

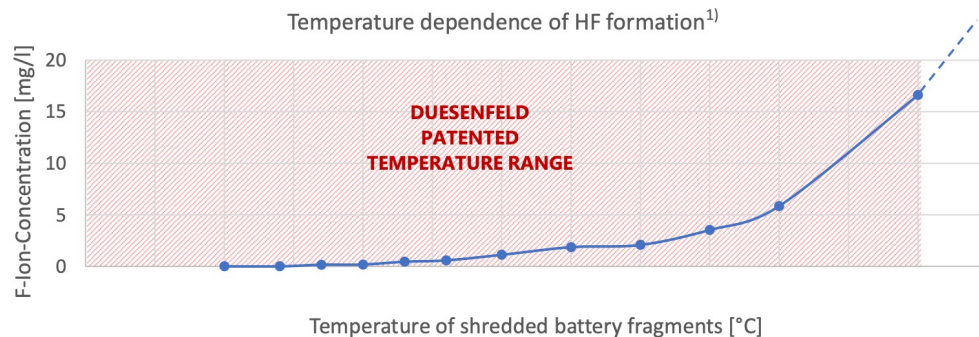
Aluminiumfolie (Kathode)

Blackmass

Elektrolyt (Lösungsmittel)

Schwergut (Gehäusematerial)

Kunststoffolie (Separator)



low temperature process, no formation of HF

Deep fast discharging



Shredding & electrolyte recovery



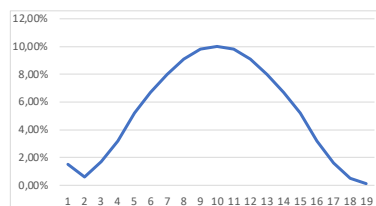
Milling and separation



Slow but potentially huge market

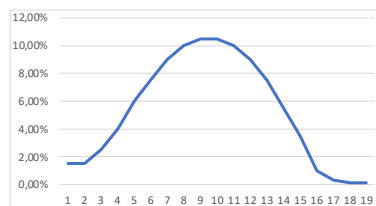
Categoria	Fonte	Tipo	UdM	Anno 2019	Anno 2020	Anno 2021	Anno 2022	Anno 2023	Anno 2024	Anno 2025	Anno 2026
Autovetture	Unrae	HEV	#	110.052	268.988	427.924	454.989	575.480	633.583	683.226	700.000
		PHEV	#	6.515	37.914	69.312	67.947	70.188	52.852	99.424	120.000
		BEV	#	10.577	39.060	67.542	49.536	66.679	65.932	94.973	120.000
Veicoli commerciali	Unrae	HEV	#	777	807	10.061	17.490	16.426	15.032	15.534	15.000
		PHEV	#	-	1	288	669	1.084	423	1.840	2.000
		BEV	#	984	988	3.172	4.265	6.142	3.836	8.320	10.000
Bus	Anfia	HEV	#	245	88	196	119	684	844	844	850
Motocicli	ANCMA	BEV	#						6.056	5.567	6.000
Ciclomotori	ANCMA	BEV	#						4.114	2.994	3.500
Bici	ANCMA	BEV	#	195.000	280.000	295.000	337.000	273.000	274.000	274.000	250.000
Monopattini	Varie	BEV	#	50.000	80.000	500.000	150.000	150.000	150.000	100.000	100.000
Sistemi accumulo	Varie		GWh		0,17	0,45	2,03	3,84	5,92	8,88	9,00

Worst case scenario



Mercato	Y2026	Y2027	Y2028	Y2029	Y2030	Y2031	Y2032
NMC	289	590	978	1.798	2.963	4.526	6.407
LFP	395	921	1.675	3.314	5.764	9.768	14.838
TOT	685	1.511	2.653	5.112	8.727	14.294	21.245

Best case scenario



Mercato	Y2026	Y2027	Y2028	Y2029	Y2030	Y2031	Y2032
NMC	348	792	1.391	2.386	3.745	5.494	7.572
LFP	471	1.195	2.310	4.362	7.429	12.177	18.349
TOT	819	1.987	3.701	6.748	11.174	17.670	25.921

Safety

- Over **300 mc** of water tanks
- **Sealed storage** containers to be water-filled on emergency call
- All batteries get **discharged** at arrival
- Dust proof plant





Thank you for your attention

