

**Raw
Materials
for the
Future**



Valuable





Market Leader

We are the market leader in the waste management sector and recycling of electronic scrap in Switzerland. As a technology leader and systems operator, we work out viable solutions in the separating technics branch and generate valuable raw materials.

Recycling has been our strength for over 20 years: In order to preserve natural resources, we recycle waste electronics according to the principles of the recycling economy. With our recycling quota of 95%, we achieve a standard well above the requirements of WEEE¹ – representing the best proof for our clients that we are competent in processing electronic scrap.

Our activities extend all over Switzerland and we co-operate with dismantling plants over the entire country. In this field, we are also well-known abroad: We are planning and realizing ready to use plants and have implemented our concepts by establishing recycling plants in Ireland, Germany, Italy and France.

Our clients are provided with our profound know-how, our long term experience, modern infrastructure, practical logistics, firm commitment – as well as the capacity to process the collected quantities also in the future.

¹European Union Directive on Waste Electrical and Electronic Equipment



Products

- Office equipment electronics and computers
- Entertainment electronics
- Small household appliances (vacuum cleaners, coffee machines, etc.)
- Large household appliances (washing machines, dryers, etc.)
- Refrigerators, deep freezers, air conditioning appliances
- Lighting equipment
- Electronic toys and tools
- Electronics for industry
- Medical appliances
- Hazardous waste, e.g. batteries, condensators, etc.

Collecting Points and Logistics

While maintaining a dense net of collecting points and accepting stations, we also collaborate closely with local collectors. On determined days of collection for acceptance of goods, individuals are offered the opportunity to deliver directly their used appliances at our site. On those days, all devices at the collecting points and at the points of sale can be returned free of charge. We operate our own local plants in **Liestal** (dismantling), **Regensdorf** (mechanical processing) and **Mülheim** (screen glass processing). Individual items, bulk material and bulky freight requiring special transportation are collected from our customers' place all over Switzerland within a short time. We supply casks such as palettes and frames, containers or theft-proof special barrels. Due to our own railroad connection, it is possible to offer our environmentally conscious clients comprehensive solutions.

Process Oriented

Manual Disassembling

During the presorting procedure, it is decided which electrical and electronics appliances must be manually dismantled from toxic waste and which ones are delivered directly into mechanical processing. The first working procedure is to carry out manual disassembly of toxic substances such as cathode ray tubes. Furthermore, the appliances are removed from the cable conductors and conductor plates. Subsequently, the parts are passed through mechanical processing.



Mechanical Elimination of Toxic Substances

As a pioneer in this area we have automated the elimination of toxic substances procedure while creating corresponding processing capacity. Old appliances are „carefully“ smashed by a rotating chain works system during the precrushing process. Through this operation the toxic elements like batteries and condensers, are removed of the bonds on the clamping connections and the soldered joints and exit the milling space almost undamaged. The process through magnetic separators, screens, eddy current dividers and manual sorting discards the toxic substances and valuable materials. In highly specialized plants the toxic substances are dressed by different procedures and depolluted.





Acceptance of Goods

Quality control and material flow transparency is provided when we accept the goods by precise weight seizure. The entering goods are registered and weighed on weighbridges. The balances are connected with the IT system which guarantees registration of the material flow.



The Programme of Services

We can sort the delivered material according to clients requirements and weigh it on a computer assisted weighing platform and balance lines. Upon our clients' demand we evaluate the data of the old returned devices and establish corresponding reports, if requested, even with serial numbers.

Would you like to destroy confidential data in a secure way? We will take care of it too! You may pursue the entire procedure if you wish to do so and you will receive our certificate of destruction.

We can also deconstruct highly technical installations like industrial refrigerators appliances, shop installations, air conditions of buildings, etc.

Mechanical Separation

The environmentally compatible material is broken down in the fine separation process by the percussion grinder, pelletized and by means of separating tables split up into nonmetal and metal materials. The subsequent screening provides the necessary conditions for a successful metal-/plastics separation. Metal granulated materials are run through density separation tables for further sorting. This allows that metal fractions and plastics fractions are directed back in their purest form into the material circuit.

Screen Glass Recycling

To reprocess cathode ray tubes metals, organic substances and coatings have to be removed. The residual materials are broken glass fragments with defined chemical and physical properties. These are reprocessed into recyclable glass for production of new cathode ray tubes. Fluorescent screen glass recovery has an excellent life-cycle analysis as the glass is reused at rate of 100%.

For the new generation of flat picture screens, the mercurial rear lighting system has to be laboriously removed before a mechanical treatment.





Scrap Iron

Scrap iron which is a classic scrap metal is used to produce new iron products.

Non-iron Metal

Metals such as aluminum, alloys of tin, zinc, copper, nickel or precious metals etc. are sorted out according to specific criteria. These fractions are used in state-of-the-art smelting plants or foundries to produce new alloys or pure metal.



Glass

Purified glass is recovered by recycling cathode ray tubes. Production of glass made of broken glass is saving raw materials and mainly energy, as the initial feed material compounds needs no melting.



Plastics

New plastics are obtained costly from crude oil. Recycling represents an alternative. Depending of the kind of plastics it is recycled variably: working with material to gain new products: resources by recycling into their gaseous initial components or energy by utilizing the chemical energy contained in the plastics.

High

Quality



Processing waste material into high quality raw materials has evolved into a vital resource for industry: A rate of up to 70 % of the material used by manufacturers derives from the recycling sector. This is profitable – for economical reasons as well as with a view to a sound environment. State-of-the-art recycling technologies nowadays guarantee excellent environment friendly results.

Using recycled materials to produce goods has three times less effect on the environment than using new raw materials to produce the same goods. Taking into account copper which has to be extracted laboriously in mines – affects nature and environment as well as humankind working in the mines suffer from its consequences.

Raw Materials for the Future

The slogan being voiced is to recycle instead of trash. The recycling economy enables recovery of waste material to get valuable raw materials and refeed them into the economic process. Reuse is not only preserving natural resources and the environment, but also generating financial benefits, by reducing prices for raw materials.

The responsibility lies with each individual to preserve a sound environment. With the reputation of being the market leader, we are implementing the highest possible recycling quality to the same extent as safety at work and health protection of our collaborators. We take pride in being rewarded with the leading manufacturers' loyalty in the market.

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