## Process and Layout Study

## Competence in Recycling & E-waste Processing



After the process & layout study, you will have a tailor-made recycling concept for your requirements – based on the raw material and the designated product portfolio.

- ✓ Manufacturer independent specifications
- ✓ Objective technology evaluation
- ✓ Both, turnkey project and self-organised realisation are possible
- Stepwise project realisation with implementation of go/no-go decisions
- Prevention of surprises and increased cost reliability
- Increased cost effectiveness and overall financial benefit



We provide an independent engineering package as a basis for equipment tendering procedure. This reduces dependency on single suppliers, strengthens negotiation position and finally increases cost effectiveness.

Our scope of services within a Process and Layout Study is related to the following topics:

**SERVICES** 

- Financial plan & business case: Raw material and product qualities; estimation of required manpower, as well as energy, media, and utilities consumption; evaluation of equipment costs
- ✓ **Site selection & infrastructure planning:** General plant layout; cross sections and outer dimensions, media & utilities requirements and main electrical load; consideration of auxiliary & environmental equipment, cranes & hoists (...)
- ✓ **Tendering and equipment selection:** Main technical data of key, auxiliary, and environmental equipment; manufacturer independent data to allow wide tendering procedure
- ✓ **Coordination with permitting authorities:** Plant layout and cross sections; process flow diagrams; products, byproducts, and waste streams; off-gas and gas treatment options
- ✓ Further engineering & project realisation: Well-founded basis for basic, civil, and detail engineering; manufacturer independent, but upgradable in relation to the finally selected equipment

