

Process Design & Engineering

Competence in Recycling & E-waste Processing



UrbanGold
recycling for a green future

*Your Partner for developing, designing,
and realizing metal recycling projects*

- ✓ Customer tailored recycling solution optimized for your specific application & raw material
- ✓ Independent expertise and analysis
- ✓ Estimation of media, energy, and auxiliary consumption
- ✓ Prediction of products amount, quality, profitability
- ✓ Estimate and state CAPEX & OPEX

BENEFIT

UrbanGold's core competence is the development and design of recycling processes for the metals industry. The focus is on complex, non-ferrous secondary raw materials and materials that pose a major challenge for established standard processes.

Technical and economic feasibility

- ✓ Due to its many years of experience, UrbanGold can very quickly carry out a basic technical feasibility analysis and a rough economic assessment for a wide range of problems. All relevant environmentally specific issues are considered.

Process development

- ✓ If the first technical and economic feasibility leads to a promising result, UrbanGold develops the recycling process step by step until the technology is ready for investment.

Process modeling

- ✓ Every process development at UrbanGold is accompanied by process modelling, and mass & energy balancing, respectively. This enables tailor-made solutions and is the basis for plant engineering.

Process engineering

- ✓ A detailed elaboration of the individual process stages will be carried out. This includes an individual mass & energy balancing, the description of critical process parameters, relevant influencing factors, and a meaningful illustration of the process flows.

Implementation

- ✓ Together with our partners, we also offer further engineering packages and plant deliveries.

SERVICES

We are the ideal partner for:

- ✓ Developing recycling solutions for new secondary raw materials
- ✓ Evaluating technical and economic feasibility
- ✓ Designing customer tailored recycling processes for your needs
- ✓ Implementing technologies – either Greenfield or Brownfield



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**PROCESS
DESIGN**