Task 1.3 Optimization techniques to recover REE from the selected waste residue

Task 1.3, optimization techniques to recover the REE from the selected three waste residues in Task 1.1, is under development. The processes being researched are solvometallurgical and ionometallurgical methods, molten salt processes, HydroWEEE process and high temperature processes. From the results obtained up to now, it is clear that the optimized solution for the recovery of the REEs to be alloyed with magnesium will not consist of a unique process type but will involve a combination of several techniques specifically designed and verified for each material source. For example, very promising results have already been obtained for CRTs waste by integrated hydro, solvo and pyrometallurgical processes.

Equipment for the pyrometallurgical step in the REE recovery from CRTs

Partners in Task 1.3 are working very closely with WP5 in terms of providing environmental and economic information from the processes developed for the LCCA analysis.