

Case Study

APCR

Industrial research project for the design of an air pollution control residue (APCR) recovery process, coming from municipal waste to energy recovery plants.

THE CHALLENGE: In the European legislation, given its classification as hazardous waste, APCr ashes are mostly managed in controlled landfills or in former salt mines, generally with prior solidification treatment with binder materials. This final treatment prevents its possible reuse as a secondary resource, within the framework of a circular economy, or the recovery of any of the materials or elements contained therein.

THE SOLUTION: The challenge of APCR ash recovery is being addressed from a global point of view, researching and testing different types of pre-treatments that allow the mobilization of the metals present and soluble sales, with a view to the subsequent recovery of all the fractions separated.

BENEFITS: This project aims to generate new knowledge, focused on the recovery of the different fractions of air pollution control residues from the purification of gases in combustion processes, with a current destination as landfilling.

The proposal of this project is to go from a linear process to a circular process in which we can recover most of the substances contained in this waste for reuse. Considering that today, in Spain, around 87,000 tons of solid waste from gas treatment are generated per year, which also has the characteristic of being hazardous, the contribution of this project to the circular economy would be very significant.

INVESTMENT: 264.911 €

DURATION: 2021 - 2023

CREW MEMBERS: Sergio Becerril, Jesús Curto, Lucia Achurra, Visitación San Martín and Raquel Ruiz.

The consortium for carrying out the project is made up of 8 companies, led by Pasek Minerales SA, with the participation of Eurecat, among others.

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