



Strategic secondary raw materials for energy autonomy.

The main objective of the SENECA project is to investigate the potential of secondary sources from mining and industry, through processes of recovery and valorisation of Critical Materials. In addition, the project will investigate the manufacture of Secondary Raw Material (SPM) products for the manufacture of components for the battery and hydrogen industries. Furthermore, SENECA will pursue the potential development of new innovative traceability elements in these strategies. To achieve this overall objective, the following **specific objectives** will be pursued:

- Technologies for better management and adaptation of waste to the different extraction processes of strategic materials.
- Advanced technologies for recycling and recovery.
- Technologies for the development of intelligent mining promoting sustainability.

In the project, AEROTECNIC, is researching a new system for the treatment of titanium swarf using ultrasound to obtain a non-dangerous metal waste of greater value, reducing the environmental impact and favouring new applications.

This project will be framed in the framework of Mission 5 "Promotion of the substitution, recovery and valuation of mineral resources and strategic materials for the Ecological Transition", which will contribute to the fulfilment of different **environmental and energy objectives**:

- To decarbonisation and ecological transition .
- A strategic autonomy will be promoted in response to the current threat of a new geopolitics of raw materials.
- The direct impact this project will have on all sites associated with mining industries and their waste.

SENECA project led by Pasek and in collaboration with companies such as Linersa, Indmail, Jorcar, Rimsa, Capgemini, Sader and Aerotecnic. The project will run **from October 2022 to June 2025**, managed by CDTI, with an overall budget of €4.5 million.