

Recycling of high-quality secondary thermoplastics and recovery of critical raw materials from mixed plastic waste in the automotive and electrical and electronic equipment sectors.

LIFE PlasPLUS targets an innovative technology challenging the current state-of-the-art recycling process and transforming the current downcycled or landfilled/incinerated waste in high-purity secondary thermoplastics.

LIFE PlasPLUS improves the recycling of high-quality secondary thermoplastics and critical raw materials found in end-of-life vehicle waste (ELV) and waste of the electrical and electronic equipment (WEEE). The three major project objectives are: Step 1: Production of high purity thermoplastics Step 2: Automated multi-class sensor-based sorting and separation of Flame Retardant Plastics Step 3: Recycling of by-product Antimony (Sb) through catalytic conversion and hydrometallurgy



Furthermore, LIFE PlasPLUS seeks to provide a complete solution for the economic recovery of thermoplastics and by-products through transformation in added-value raw materials and products for the automotive and electrical and electronic equipment sectors.

By using secondary thermoplastics instead of virgin material, the fast-growing sectors will limit energy, water, and resource consumption, as well as cut gas emissions while reusing critical raw materials.









