

# QUALITY PLASTIC FROM WASTE

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From left to right, Juan Carlos Sánchez (Indumetal Recycling), Rubén Ealo (Zicla Euskadi), Ander Elgorriaga (IHOBE), Goio Borge (Zicla Euskadi), Rafael Migue (Gaiker -IK4), Manuel Aduna (Aligoplast) and Dorleta Guardé (Indumetal Recycling)

[Indumetal Recycling](#) leads the FENIX project focused on research for the recycling of a plastic fraction of more than 3,000 MT/year and obtain a new high-quality by-product from the treatment of Waste Electrical and Electronic Equipment (WEEE). The Basque Government, IHONE, ZICLA circular economy engineering, GAIKER-IK4 and ALIGOPLAST participate in the project

The novelty of the technology to be developed for the separation of plastic mixtures is based on a novel concept of melting and filtering materials according to flows and temperatures. This is a pioneering process in Europe, and would therefore represent a relevant milestone in the cleantechs applied to WEEE management, not only for the Basque plant, but also for its implementation as an independent business line at an international level.

The result of this innovative process will be a plastic product (pellet) based on high-quality styrenic plastics and suitable for reincorporation into the market as a new raw material. Something very necessary, since in the Basque Country, in 2012, 6,666 MT of a total of 9,630 MT recycled were recycled, and extrapolating the data, the weight of non-recycled fractions of WEEE in the Basque Country could reach 7,000 MT/year. With these figures and the standard losses of a pre-treatment process and the proposed new technology, a total of 18,900 MT could have been valued in 3 years. In 5 years, the quantity would reach 31,500 MT (EUSTAT data).

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