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 Guarde (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.< /span>

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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