



LIFE13 ENV/ES/000173 GREENZO

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## Development of the GREENZO pre-industrial Pilot Plant!



Once the conceptual design of the GREENZO pilot plant has been achieved, having determined the most appropriate technology to obtain Zinc Oxide (ZnO) from non-ferrous waste (Zamak), the GREENZO project started the physical construction of the pre-industrial pilot plant (Figure 1).

Once the optimal working sequence of the diverse modules that form the pilot plant was defined, each of the modules was designed and the most adequate control and automation system was defined for the proper functioning of the plant, all this supported by a risk and operability assessment (HAZOP). After that, most of the elements and equipment of the pilot plant were acquired and it was assembled. After the last adjustments of the control electronics, the pilot plant is now ready to process the previously selected waste and obtain as a sub-product the zinc oxide that meets the necessary specifications. This constitutes a main milestone in the development of GREENZO project, as from this moment on the next stage of effective valorisation of the waste and its conversion into qualitative Zinc Oxide that met the technical requirements of the two industrial sectors they are addressed (Rubber/EVA transformation and chemical catalysis, although the results can be extrapolated to other sectors) is going to be carried out. This project will be developed within 3 years, and it is funded by the European Commission through the LIFE13 ENV/ES/000173 GREENZO instrument. It is coordinated by AIJU; ITQ-CSIC, WORTEUROPE and CAUCHOS KAREY participate in this project.

## GREENZO project participates in WHTC 2015

The GREENZO Project participated, via the partner ITQ-CSIC, in the 6th World Hydrogen Technologies Convention (WHTC 2015). This was the first enabling action to implement the outputs of GREENZO project on the market.

Attendants from the academic and industrial world, linked to the preparation of catalysers and the sustainable production of hydrogen, showed great interest in the project, paying special attention to the potential applications of recycled ZnO used as catalyser and support of catalysers.

You can see an abstract of the presentation on the following link.

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