

RECYCLING & WASTE MANAGEMENT

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The circular economy model application for metals recovery from e-waste: Fenix horizon 2020 European project

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The e-waste recycling is a worldwide concern by both environmental and economic reasons. This is due to their hazardous content which can pose the ambient and respectively human life but in the same time, by the valorization of its content in a sustainable manner, this waste can become an important secondary resource for manufacturing on new products. The “Reduce, Reuse, Recycle” paradigm which is the base of circular economy principle, has been considered as a base in the realization of Fenix (Future business models for the Efficient recovery of Natural and Industrial secondary resources in eXtended supply chains contexts) Horizon 2020 European Project. Within this project, considering our already achieved experience in the field of e-waste (in particular, waste printed circuit boards) by hydrometallurgical methods and the

experience of the other 9 partners, experts in various institutions and fields (SME's for e-waste collection and recycling, research centers for materials preparation and characterization and also in designing of new products), sustainable technologies for in a closed loop way will be developed.

Speaker Biography

Francesco Veglio, Full Professor in Chemical Engineering at L'Aquila University, Italy. Authors of more than 170 papers on international journals, more than 60 monographic publications and 130 communication to Congresses, extended abstract, poster and 3 patents in development of hydrometallurgical processes and industrial wastewater treatment. Member of the Editorial Board of Hydrometallurgy (Elsevier), Journal of Waste Management (Hindawi) and Editor in chief International Journal of Non Ferrous Metallurgy

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