

TES Recycle System for Composite Material Waste; Thermal Elutriation System IMS Project No. 98032

- Developed method for recycling materials without dismantling
- Developed a logistics system for collection of disused materials

The objective of this project was to develop the technology for recycling plastics and metals from electrical household appliances and communication equipment by pyrolysis combustion and/or dissolving methods. Technology developed recovers layered steel plates and copper wires from electrical motors and copper and aluminum from heat exchangers. Mixing technologies of the recovered plastics with the plastics used for mechanical structures were also included.

The project investigated new bonding materials (for electrical equipment) that can be vaporized by pyrolysis.

There were seven (7) industrial partners, two (2) research companies, and one (1) university involved in this research. A few of the notable partners were Ebara Corporation (ICP), Toshiba, The Fraunhofer Institute, Southcorp Appliances, and Airvac.

