Abstract

After European Union announced relevant green norms, the issue of protecting our Earth has become a heavy burden for traditional electrical and electronic industries. These norms include WEEE, RoHS and EuP already materialized since July 1st in 2006. These norms regulate the necessities to produce green and clean products. The duty for makers to protect product environment is also requested. Therefore, considerably large stress on product designers and makers has been created invisibly. In addition, such norms also cause export trading barricades and market competition stress on makers. The said phenomena have surfaced in the business climate of local traditional companies gradually. It exerts considerable influence on revenues and reputation of these companies.

This research provides relevant information to help companies under case study establish an autonomic management system meeting green production norms. It aims to address the bottlenecks and difficulties happening to product requirements faced by companies. It also enhances the green competence of manufacture industries. Through renewal planning and design for management systems of companies, a management system aiming at green products is established. With system management, it is available to inspect inventories, generate volume-reducing plans for hazardous substances, improve relevant production processes and construct a standardized QC process for green and non-green products. As such, green supply chains (GSC) are reachable. A management system of supply chain processes without harming Earth and human beings can make zero environmental pollution of manufacture and recycling available.

Keywords: WEEE, RoHS, EuP