

Title: Design for Recycling applied to LED-lamps

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Abstract

Resources for new electronic products as well as the treatment of electronic waste become increasingly critical as we create, design and manufacture globally increasing volumes of electronic products. However, recyclability of electronics is limited and a significant percentage of electronics does not even end up in the appropriate waste stream. In the framework of the ENIAC project *GreenElec* Philips cooperates with other manufacturers and recyclers to accomplish alignment between design of products and end-of-life treatment. The project aims for:

- Suitable combinations of materials for recycling
- Design rules for electronics and electronic products taking into account recycling processes
- Identification of recyclable/recoverable electronic devices and components
- Methods and technology for sorting of devices and components into well-defined waste streams
- Optimum waste stream separation for maximal recovery
- Business models and policy support that give an incentive to the recycling/reuse of electronics

The presentation will mainly highlight the Philips effort regarding the development and implementation of design guidelines. This will be illustrated by the redesign of a LED lamp.