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“CLEANER PRODUCTION INITIATIVES AND CHALLENGES FOR A SUSTAINABLE WORLD”

## Development of Environmentally Friendly Products: Case Study in a Germany Company Producer of Household Appliances

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### Abstract

This paper presents results of an investigation into the development of environmentally friendly products: case study in a Germany company producer of dishwashers. Concepts of eco-design and life cycle analysis are shown in the literature review. The case study uses these concepts to investigate the dishwashers produced by the German multinational company called *Bosch und Siemens Hausgeräte*. Historical quantitative analysis of water and electrical energy consumption from the first versions of dishwashers until the most modern ones, as well as the systems which were implemented and improved in order to achieve the targets linked to the reduction of water and electrical energy consumption, are presented.

**Keywords:** *product development process, life cycle analysis, case study.*

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