

Analysis of Case Studies Carried out Within the Framework of the GREENFOODS campaign

Masterthesis

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Abstract

The GREENFOODS project is a European campaign focussed on improving the energy efficiency of process operations within the Food and Beverage Industry.

Five partner countries were involved, Austria, Germany, Poland, Spain and the UK. As part of the campaign, auditors from the partner countries performed 204 basic and 46 detailed energy audits of companies in each partner country and France. The auditors recommended measures and technologies for energy efficiency improvements. Of the 46 detailed audits, 29 had sufficient information for analysis, which were the focus of this study. Through data mining, the technologies and measures recommended to the companies were assessed in terms of potential energy savings and carbon dioxide reduction in each country, sub-sector and size of firm. Any trends were discussed based on prior knowledge and the reasons given by the auditors for a technology's recommendation. The auditors also filled out a survey, which was analysed to determine any barriers present within the GREENFOODS campaign, and how they related to previous studies.

This study took place over 3 months in 2015. Any conclusions are only held true within the GREENFOODS campaign and this timeframe.