

# RECP Best Practice Catalogue

*Minimization of product losses from  
final cutting*

*Developed within the framework of MED TEST II*



UNITED NATIONS  
INDUSTRIAL DEVELOPMENT ORGANIZATION



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# Best Practice - Minimization of product losses from final cutting

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<b>SECTOR:</b>	<b>Food &amp; Beverage</b>
<b>SUBSECTOR:</b>	Bakery and farinaceous products
<b>PRODUCTS</b>	Different types of sweets
<b>CATEGORY</b>	Good Housekeeping
<b>APPLICABILITY</b>	Process

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<b>COMPANY NAME</b>	---
<b>COMPANY SIZE</b>	Medium

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## Description of the problem (Base scenario):

Based on the conducted measurements in the relevant processes. 7.5 ton of final products were lost per year.

The main cause of those losses was identified being the use of the circular plates to bake rectangular products, leading to irregularity in edges. These irregularities are removed by the company staff in a poorly controlled cutting process.

## Description of the solution

Reduction of the generated waste is achieved through implementing the following GHK measures:

- The shape of final products shall be rectangular while the company was using circular plate to bake them, so using rectangular plates will reduce the amount of lost products coming from their cutting.
- Control the staff practices in edges' cutting process of the product to reduce its waste. The staff shall be accurate in cutting the edges of the rolled products. It should avoid-cutting more than needed also in order to keep the high quality.

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## Economic Benefits

Based on the conducted measurements of the generated waste after applying the GHK measures, following quantities could be saved:

Saving in final products = 4.1 ton/year

Which leads to a saving of around €12,100/year

## Environmental Benefits

Total solid waste (product) reduced and raw materials saved= 4.1 ton/year (54.7% of the solid waste and 0.97% of the raw materials)

## Health and safety impact

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<b>Capital investments &amp; financial indicators</b>	Investment= Negligible Payback period= immediately
<b>Suppliers</b>	---
<b>Other aspects</b>	The productivity is increased by 0.98%. Frequent training for the staff to control the cutting process is needed
<b>Implementation</b>	Implemented. Results verified as per the conducted measurements. The company applies a daily weighing of the generated waste from each process to properly monitor the performance of its staff and savings.