

RECP Experiences at Biser

The efficient and environmentally sound use of materials, energy and water - coupled with the minimization of waste and emissions - makes good business sense. Using Resource Efficient and Cleaner Production (RECP) this can be achieved in a holistic and systematic manner. RECP applies preventive management strategies to improve natural resources productivity, minimize generation of waste and emissions, and foster safe and responsible production. As experiences of Biser Ltd. Bosnia and Herzegovina show, benefits are obvious in many enterprises, regardless of their line of business, location or size.

Achievements at a Glance

The Resource Efficient and Cleaner Production (RECP) project in bakery Biser will achieve annual savings of EUR 386, with investment of EUR 500 and payback time of 1 year and 10 months for waste utilisation measure and 5 months for water reduction measure respectively.



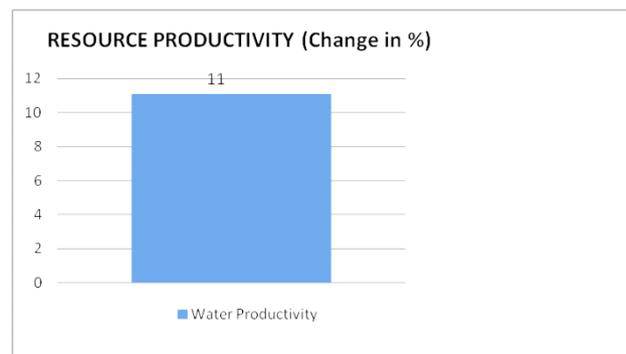
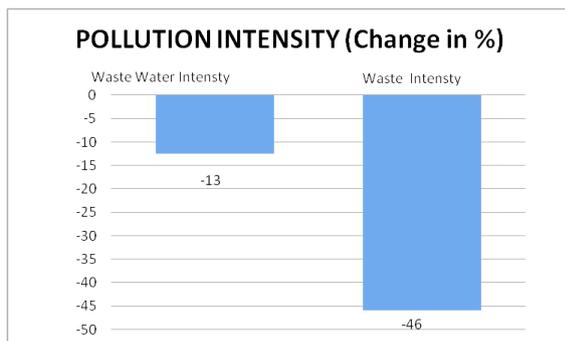
Overview

The company produces bread, pastries, cakes, pasta and ice cream. The company was founded in 1989. Progressive development of modern technological processes and equipment has enabled the company to become a modern production plant. The company's production capacity is 150 t / year of flour. It has 165 employees.

Benefits

Absolute Indicator	Change (%)	Relative Indicator	Change (%)
Resource Use		Resource Productivity	
Water Use	-10	Water Productivity	11
Pollution generated		Pollution Intensity	
Waste-Water	-13	Waste-Water Intensity	-13
Waste	-46	Waste Intensity	-46

RECP profile



Resource Efficient and Cleaner Production (RECP) entails the continuous application of preventive environmental strategies to processes, products and services to increase efficiency and reduce risks to humans and the environment.

RECP addresses three sustainability dimensions individually and synergistically:

- *Production efficiency*

> Through improved productive use of natural resources by enterprises

- *Environmental management*

> Through minimization of the impact on nature by enterprises

- *Human development*

> Through reduction of risks to people and communities from enterprises and supporting their development



Resource Efficient and Cleaner Production (RECP)

Success Areas

RECP measures	Benefits				
	Economic			Resources	Waste flow
	Investment EURO	Savings (EURO/year)	Pay back period		
Recycling of cardboard waste	400	216	1 y and 10 months	-	Packaging material 4.3 t
Procurement and setting of 3 water meters in critical areas of consumption, and installation of pressure nozzles on washing pipes	100	170	5 months	Water 157,4m ³	Waste water 157,4m ³



RECP Experiences



Approach taken

The Company participated in the National Cleaner Production Program in Bosnia and Herzegovina as one of the ten selected companies. The RECP assessment was performed by the company team and national experts trained in RECP methodology. The RECP assessment was supervised by international experts. The purpose of assessments made at the beginning of the project was to prepare a material balance, an energy balance and balances of water consumption and wastewater. It was not possible to obtain precise data on the resource consumption and thus to prepare material balance. The company has no designated resource management officer. After consultation with the company management the company team has selected the packaging waste separation and recycling as the RECP measures to be implemented.

Testimony Box

National Cleaner Production Program in Bosnia and Herzegovina

The program is designed to foster expertise, service delivery capacity and implementation of RECP practices and policies in the country, building on UNIDO's experience in supporting National Cleaner Production Programmes (NCPPs) and Centres (NCPCs), in collaboration with UNEP, under the global joint RECP Programme. The program that was officially launched in 2015, contributes to improve the resource efficiency and environmental performances of businesses and other organizations in Bosnia and Herzegovina. With the application of a systematic RECP approach, the project aims at providing:

- Training to national experts on UNIDO's RECP methodology
- Assessment services to companies
- Information dissemination and awareness raising

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