

RECP Experiences at Menprom Ltd.

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 Menprom 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 Menprom meat processing industry will achieve annual savings of EUR 18,550, with investment of EUR 7,820 and payback time of 5 months. By application of the RECP measures, a total water consumption will be reduced by 40 % and the total energy consumption by 4 %.



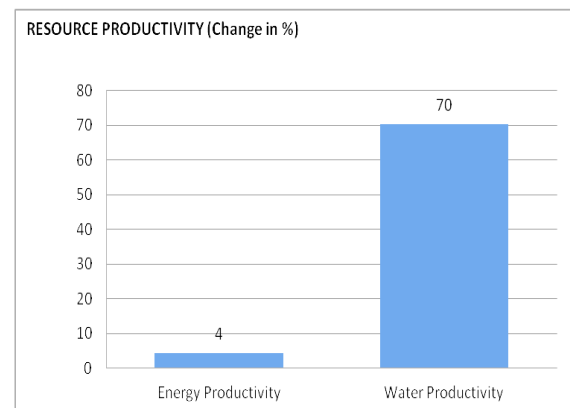
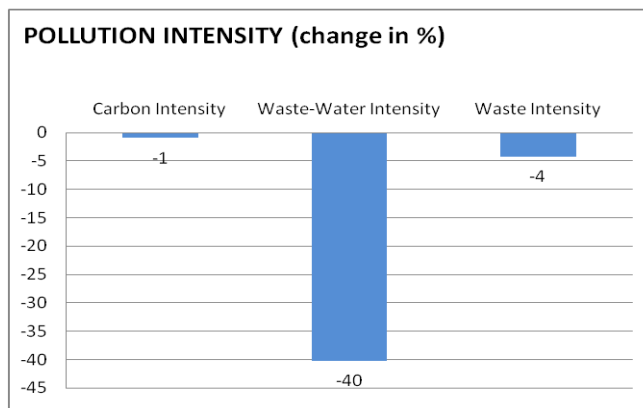
Overview

Menprom Ltd. was founded in 1998. The principal activity of the company is processing of poultry, beef and turkey meat. The production capacity of the company is 10 tons / day. Due to the increasing demand for and interest in meat products, the company is continually investing in both new knowledge and technology and expansion and modernization of its manufacturing processes. In 2007 Menprom implemented ISO standard 22000: 2005 - Food Safety Management System, and in 2008 the HALAL standard. The company has 139 employees.

Benefits

Absolute Indicator	Change (%)	Relative Indicator	Change (%)
Resource Use		Resource Productivity	
Energy Use	-4	Energy Productivity	4
Water Use	-41	Water Productivity	70
Pollution generated		Pollution Intensity	
Air Emissions (global warming, CO2 eq.)	-1	Carbon Intensity	-1
Waste-Water	-40	Waste-Water Intensity	-40
Waste	-4	Waste Intensity	-4

RECP profile



Resource Efficient and Cleaner Production (RECP)

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



Success Areas

RECP measures	Benefits				
	Economic			Resources	Waste flow
	Investment (EURO)	Savings (EURO/year)	Pay back period	Reductions in energy use, water use and/or materials use (per annum)	Reductions in waste water, air emissions and/or waste generation (per annum)
Reduction of compressed air consumption through installation of two air flow meters and manometers	2,650	1,996	1 year and 5 months	Electric energy 30.672 KWh	CO ₂ 51,4 t
Installation of air valves and valve insulation in boiler house	2,500	1,260	2 years	LPG 4,021 l	CO ₂ 6,1t
Optimizing the efficiency of packaging lines- adjustment of plastic foil machine	0	1,900	Immediate	Plastic foil 1,350 m ² (0,21 t)	Plastic foil 1,350 m ² (0,21 t)
Automatic cooling of cooked products- procurement of automatic ball valve with timer	250	940	<4 months	Water 625 m ³	Waste Water 625 m ³
Recirculation of cooling, washing water and condensate for cleaning and gardening purposes	2,500	3,070	11 months	Water 7.454 m ³	Waste Water 7.454 m 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. After consultation with expert teams the company management selected the RECP measures to be implemented. The selected RECP options will be implemented in auxiliary processes, i.e. compressor units and boiler house. Other selected RECP options will improve water efficiency by recirculation of cooling, washing water and condensate for cleaning and gardening purposes.

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 in terms of sensible use and management of natural resources in businesses and other organizations in Bosnia and Herzegovina. Applying 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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