

RECP Experiences at “Izazov” d.o.o. Kalesija

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 “Izazov” d.o.o. 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 Izazov furniture manufacturing industry, will achieve annual savings of EUR 42.994,55, with investment of EUR 31.395,90 and payback time of 9 months. By application of the RECP measures, a total electric energy consumption will be reduced by 11.04% and contribution to reduction of carbon dioxide emissions will be 11% and waste 4.60%.



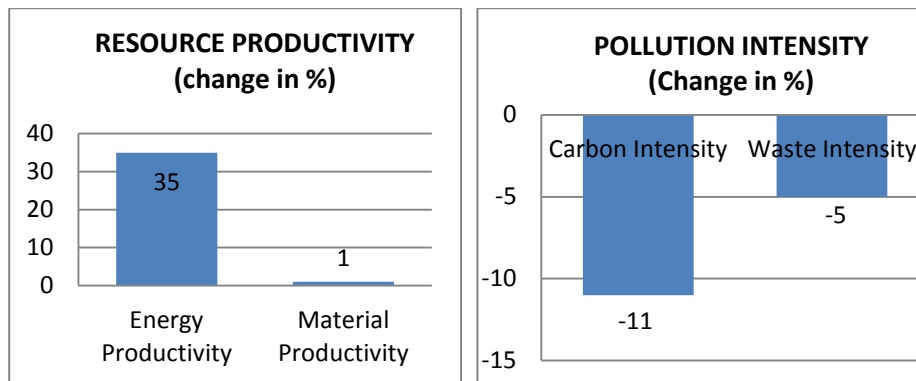
Overview

Izazov has been operating since 1996, with the core activities of primary and final wood processing. The following operating and production units are part of Izazov: transportation of logs and finished products, sawmill, kiln, lines for the manufacture of composite, upholstered and solid wood furniture. The company currently has over 100 employees.

Benefits

Absolute Indicator	Change (%)	Relative Indicator	Change (%)
Resource Use		Resource Productivity	
Energy Use	-26	Energy Productivity	35
Water Use	0	Water Productivity	0
Pollution generated		Pollution Intensity	
Air Emissions (global warming, CO ₂ eq.)	-11	Carbon Intensity	-11
Waste-Water	0	Waste-Water Intensity	0
Waste	-5	Waste Intensity	-5

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)
Replacement of energy saving bulbs, with LED panels	5,879.85	5,164.04	1 year and 2 months	Electric energy 44,006.40 kWh	Waste 4.78 t
Installation of container for compressed air	1,073.71	2,556.46	5 months	Electric energy 1,200 kWh	-
Installation of three frequency regulators on the dedusting system engines	9,970.19	2,602.47	3 years and 10 months	Electric energy 42,354 kWh	-
Organization of work space	2,045.16	1,227.10	1 year and 7 months	-	Waste 2.04 t
Implementation of Lean standard	6,902.44	7,567.12	10 months	Input feedstock 11.2 t	Waste 3.8 t
Installation of frequency regulators to the dryer motors	2,492.54	894.76	2 years and 9 months	Electric energy 14,515.02	-



RECP Experiences



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				kWh	
Planting fast -growing trees	3,031.60	24,363.06	2 months	Fuel 1,350 l	-



RECP Experiences



Approach taken

The Company participated in the National Cleaner Production Program in Bosnia and Herzegovina. 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 furniture manufacturing plant , compressor units, dedusting system and boiler house. Other selected RECP options will improve pellet production and wood dryer. Presented measures for lightning efficiency improvement contribute in overall electric energy consumption savings and more efficient production. All measures will contribute to electric energy savings, wood consumption and carbon dioxide emissions reduction.

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 (NCPs) 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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