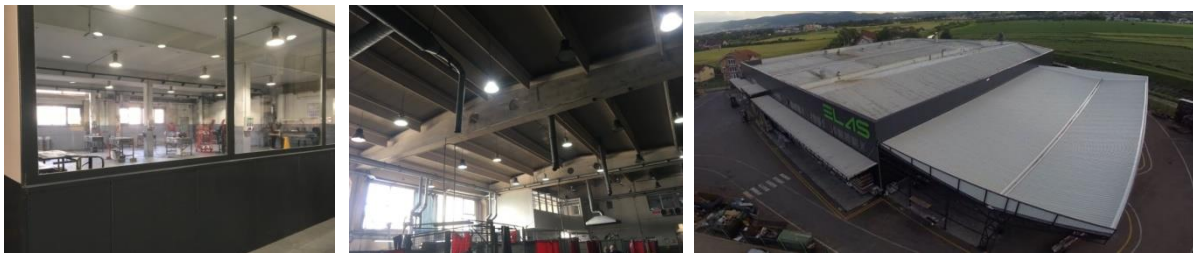


RECP Experiences at ELAS Metalexpert

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 ELAS Metalexpert 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 ELAS Metalexpert sheet metal processing industry will achieve annual savings of EUR 96,601.46 , with investment of EUR 68,615.38 and payback time of 9 months. By application of the RECP measures, a total energy consumption will be reduced by 27 %.



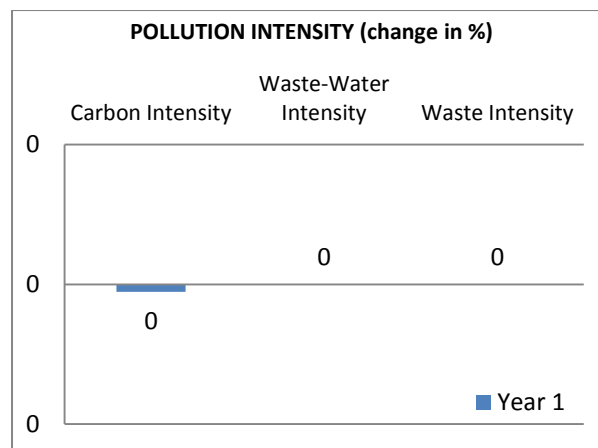
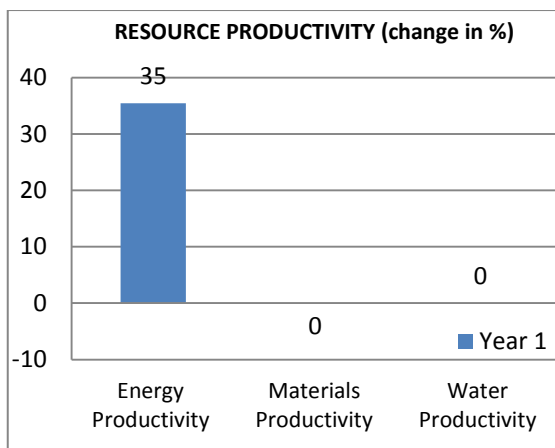
Overview

ELAS Metalexpert was founded in 1994 with the focus on sheet metal processing. The company now expands on 5500 square meters and has 110 employees. With our design and project teams we provide full service, from customer idea to 3D model and project prototype.

Benefits

Absolute Indicator	Change (%)	Relative Indicator	Change (%)
Resource Use		Resource Productivity	
Energy Use	-26.18	Energy Productivity	35.47
Water Use	0	Water Productivity	0
Pollution generated		Pollution Intensity	
Air Emissions (global warming, CO2 eq.)	-0.02	Carbon Intensity	-0.02
Waste-Water	0	Waste-Water Intensity	0
Waste	0	Waste Intensity	0

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)
Utilization for rainwater	1,636.13	58.28	28 year and 1 month		
Installation of soft starter	5,624.21	6,442.27	11 months	Electric energy 1.030 kWh	
Installation of biomass boiler	25,564.60	58,645.19	5 months	Energy 663.60 MWh	
Installation of Termopanel	23,008.14	12,018.42	1 year and 10 months	Electric energy 117.530 kWh	
Utilization of waste heat from the plastification plant	5,112.92	364	14 years	3.562 MWh	
Utilization of waste heat from the compressor plant	7,669.38	19,437.27	5 months	Electric energy 190.080 kWh	



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 following years (management of company did not specify timeline).

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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