

## RECP Experiences at Prijedorčanka

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 Prijedorčanka 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 company recognized the potential of waste water and the fact that the heat contained in waste water was being wasted. Thermal imaging and measurements of temperature in some places showed temperature over 85 ° C, while the temperature at the outlet of the distillation column was over 100 ° C. The consumption of electricity is significant, and related costs high. The Resource Efficient and Cleaner Production (RECP) project in Prijedorčanka fruit processing industry will achieve annual savings of EUR 55,057 with investment of EUR 32,000 and payback time between 6 to 18 months.



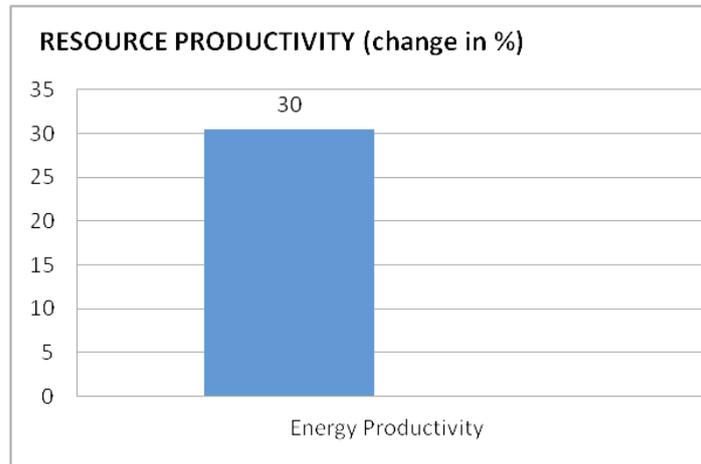
### Overview

The company was founded in 1972 as fruit and vegetable processing company. Prijedorčanka produces high quality fruit distillates, fruit and vegetable concentrated juices, aseptic puree, frozen and dried fruits, vegetables and berries. Prijedorčanka employs 160 workers and hires seasonal workers as necessary.

## Benefits

Absolute Indicator	Change (%)	Relative Indicator	Change (%)
Resource Use		Resource Productivity	
Energy Use	-23	Energy Productivity	30
Pollution generated		Pollution Intensity	

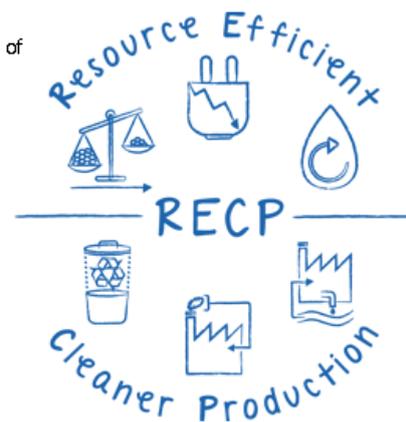
## RECP profile



**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	Reductions in energy, water and/or materials use (per annum)	Reductions in waste, air emissions and/or waste generation (per annum)	
Waste water heat recovery from the distillation column for heating of working space as well as sanitary water heating	15,000	30,000	6 months	Heat energy 25,640,052 kWh	-	
Waste heat recovery from boiler blow-down for heating of working space as well as sanitary water heating	6,000	6,557	15 months	Heat energy - 390,000 kWh	-	
Prevention of peak load by installation of soft-start device on large electrical motors and simultaneous start inhibition system of multiple motors on the PLC base.	11,500	18,500	18 months	-	-	



# 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. The baseline situation indicated the need for improvement in a number of areas, including water efficiency, energy efficiency and waste recovery. However, the company team, after consultation with the company management, decided to focus on energy efficiency and to include three RECP measures in the action plan for implementation. Waste heat from the distillation column and from boiler blow-down will be recovered and used for heating of working space and sanitary water.

### 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 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

### Contact Details

National Cleaner Production Program  
Podgaj 14, 71000 Sarajevo  
Bosnia and Herzegovina  
[www.ncpp.ba](http://www.ncpp.ba)  
Phone: +387 33 279 100  
fax: +387 33 279 108