



TOGETHER
for a sustainable future

OCCASION

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RECP Experiences at [Jordan Valley Food Industrial Company]

The efficient and environmentally sound use of materials, energy and water - coupled with the minimization of waste and emissions - makes good business sense. Resource Efficient and Cleaner Production (RECP) is a way to achieve this in a holistic and systematic manner. RECP covers the application of preventive management strategies that increase the productive use of natural resources, minimize generation of waste and emissions, and foster safe and responsible production. Benefits are eminent in many enterprises, regardless of sector, location or size, as demonstrated by the experiences of Jordan Valley Food Industrial Company, Jordan.

Achievements at a Glance

Resource Efficient and Cleaner Production (RECP) implementation in the Jordan Valley Food Industrial Company led to annual savings of USD 24'500, and improving product quality. The company has a total of 75 employees working in different departments. The company is in compliance with the standard criteria for assessment of Hazardous Analysis Critical Control Points (HACCP) and has approval of the US-FDA.

Jordan Valley Food Industrial has demonstrated that taking care of materials, energy, water, waste and emissions makes good business sense.



Overview

Jordan Valley Co. produces hummus (chickpeas) and fowl (broad beans) in addition to mixed vegetables, eggplant, green peas, carrots, red beans, white beans, tomato paste.

Benefits

Jordan Valley Industrial Company implemented most of the feasible generated options. For example, the company insulated all steam pipes, cookers, brine cookers and sterilizers. The expected annual saving was 50'678 liter of diesel. Also the company started to use hard water to soak hummus instead of using soft water. This option didn't need any investment and save around 170 m³ water/year

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

The results were achieved through the implementation of the following measures:

- Reduce soft water consumption.
- Reduce water consumption.
- Insulating all pipes and cookers and Reduce diesel consumption.

Principal Options Implemented	Benefits		
	Economic		Resource Use
	Investment [USD]	Cost Saving [USD/yr]	Reductions in energy use, water use and/or materials use (per annum)
Put covers over Hummus cookers	No investment	1351	Reduce energy consumption
Install water jets on hoses (pressurized cleaning)	35	1500	Reduce water consumption by 710 m ³ of water / year
Insulating all steam pipes, brine cookers, and sterilizers.	5500	21'700	Reduce diesel consumption by 48300 L of diesel / year
Reduce load on softener by using hard water to soak hummus instead of soft water.	No investment	364	Reduce water consumption 170 m ³ water/year

- Preheat the cleaning water by recovering heat from the hot water coming out from the sterilizer.
- Recycle water by using RO membrane.

Approach taken

The CP program comprised of capacity building and in-plant application in a modular form in addition to expert mission. A joint team from CP Unit and the Company worked cooperatively to implement CP assessment for the company.

The work included detailed company visits, identifying and evaluating CP options, implementing a number of options and setting an action plan for the follow up of CP at the company.



RECP Experiences



By participating with the cleaner production program, Jordan Valley Food Industrial Company enhanced its productivity by following and implementing the suggested options from the cleaner production team.

Business case

RECP not only allows companies to achieve savings from decreased resource use, but also decreases pollution to the environment, which benefits the surrounding community.

Testimony Box
National Cleaner Production Centre (NCPC)
The CP-Unit of RSS was established in February 2004 with the support of the Swiss State Secretariat for Economic Affairs (SECO). CP-Unit is well recognized among the Arab world in CP services. During the past 10 years, the CP-Unit has gained recognition through its comprehensive and diverse record of achievements
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ABOUT RECP EXPERIENCES

Through the joint Resource Efficient and Cleaner Production (RECP) Programme, the United Nations Industrial Development Organization (UNIDO) and the United Nations Environment Programme (UNEP) cooperate to improve the resource productivity and environmental performance of businesses and other organizations in developing and transition countries. The Programme is implemented in partnership with the Global Network for Resource Efficient and Cleaner Production (RECPnet). This series of enterprise success stories documents the resource productivity, environmental and other benefits achieved by enterprises in developing and transition countries through the implementation of RECP methods and practices.

These successes were achieved with the assistance of the National Cleaner Production Centres, which are part of RECPnet established with support of the UNIDO and UNEP. The success stories employ the indicator set described in *Enterprise Level Indicators for Resource Productivity and Pollution Intensity*, UNIDO/UNEP, 2010. The primer with accompanying calculator tool and further case studies are available at www.recpnet.org, as well as on www.unido.org/cp and www.unep.fr/scp/cp.