

Cleaner Production in Jordan

Fact Sheet: Hotels and Restaurant Amman, Jordan



What is Cleaner Production?

Cleaner Production (CP) is the continuous application of an integrated and preventive strategy to processes, products and services to increase efficiency and reduce risks to humans and the environment.

In this fact sheet, the results achieved from conducting the CP QuickScan+ on seven hotels and one restaurant are summarized. The information shall serve to demonstrate how CP can be implemented in hotels and restaurants in Jordan.

RSS-UNESCO-IRADA Project



Based on an agreement between the United Nations Educational, Scientific and Cultural Organization "UNESCO", the Enhanced Productivity Centers Project "IRADA" and the Cleaner Production Unit of the Royal Scientific Society (CPU / RSS) the QuickScan+ methodology has been applied on seven hotels and one restaurant distributed in different governorates of Jordan.

The aim of the project was to raise awareness about CP and thus to motivate the enterprises to improve saving raw materials and energy, reduce the waste emissions and improve the environmental conditions in order to improve the ecological and economic performance (eco-efficiency).

In practice, the hotels facilities were assessed on CP potentials and specific recommendations were given individually to the seven hotels and to the restaurant.

General Information



Enterprises	Seven hotels and one restaurant in Jordan
Sector	Tourism sector.
Guest nationality	Jordanian, Arabic and European.
Employees	From 10 to 34 per enterprise.

Facilities



Facilities	Rooms and house keeping, restaurant, kitchen, Turkish bath, swimming pool and utilities (boilers, air conditioning, laundry).
Raw Materials	Soap, shampoo, cleaning agents, vegetables, fruits, juice, bread, food, ... etc.
Energy Sources	Electricity, diesel and LPG.
Wastes and Emissions	Wastewater and solid wastes (plastic, empty cans, etc.)

Results

Many CP options have been identified for each hotel and for the restaurant. Following are the expected benefits from the implementation of the CP options:

- § Reduce raw material and energy consumption.
- § Reduction of environmental impacts.
- § Improving the eco-performance of the enterprise.

Following are some suggested CP and Good Housekeeping options:

Option	Environmental domain
Option 1: Install water saving equipment for taps and showers which are key locked and regularly decalcify them, while the apparent flow rate is not affected.	- Reduce fresh water consumption for domestic use by 50%. - Reduce wastewater generation.
Option 2: Use dual flushing system for toilets.	- Reduce fresh water consumption. - Reduce wastewater generation.
Option 3: Place sensors on the windows that switch off the air condition when the windows are opened.	- Reduce electricity consumption
Option 4: Install sensors in corridors to automatically switch on/off the light.	- Reduce electricity consumption.
Option 5: Install solar heating systems for hot water.	- Reduce diesel consumption and CO ₂ emissions.
Option 6: Study the possibility of reusing some of the solid waste or send it to local companies for recycling like the beverages cans and papers. Respective guest communication system should be in place.	- Reduce solid waste generation
Option 7: Install the liquid petroleum gas (LPG) cylinders outside the kitchen to prevent fire / explosion hazards.	- For emergency reasons, since this will save materials cost, human life and environmental damages.

Contacts & Partners



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Advisory services by



Financial support

Amman, 06/10/2008