



**IMPLEMENTATION OF INTEGRATED  
WASTE MANAGEMENT PROGRAMS  
IN HOTELS**



# Waste & hotel facilities

Hotel facilities, especially the larger ones, are major waste producers and their integrated management plays a significant role in saving resources and protecting the environment.

Although there are hotels that implement successful recycling programs on their own, in most of the hotel facilities the importance of proper waste management is underestimated as it is often treated simply as a cost limited to the collection fee imposed by the municipal authority (visible costs) .

The absence of a systematic approach leads to the inability to identify the hidden costs associated with the purchase of raw materials, the involvement of staff in waste management, the transport of products and waste, as well as the management and storage of materials.

The hotels benefit in two ways. On the one hand, the image towards the visitors is not attractive, on the other hand, possibilities for reducing the operating costs of the company through integrated waste management are lost. This situation hampers local management systems and reduces the life span of local landfills, while additionally it finances hotels in the current way of charging them.

However, the increased preference of customers in recent years in environmentally sensitive hotels has led to the development of green hotel networks that are promoted higher in tour operators' lists.



# European policy for the solid waste management



Solid waste management, based on the principles of the 'cyclical economy', is a key policy of European policy that is embedded in all its Member States. The new rules adopted represent the most modern waste legislation in the world, where the EU is leading by example for others to follow.

The EU legislation is geared towards milestones for the coming years and the recycling targets for municipal waste are the following:

- By 2025: 55%.
- By 2030: 60%
- By 2035: 65%

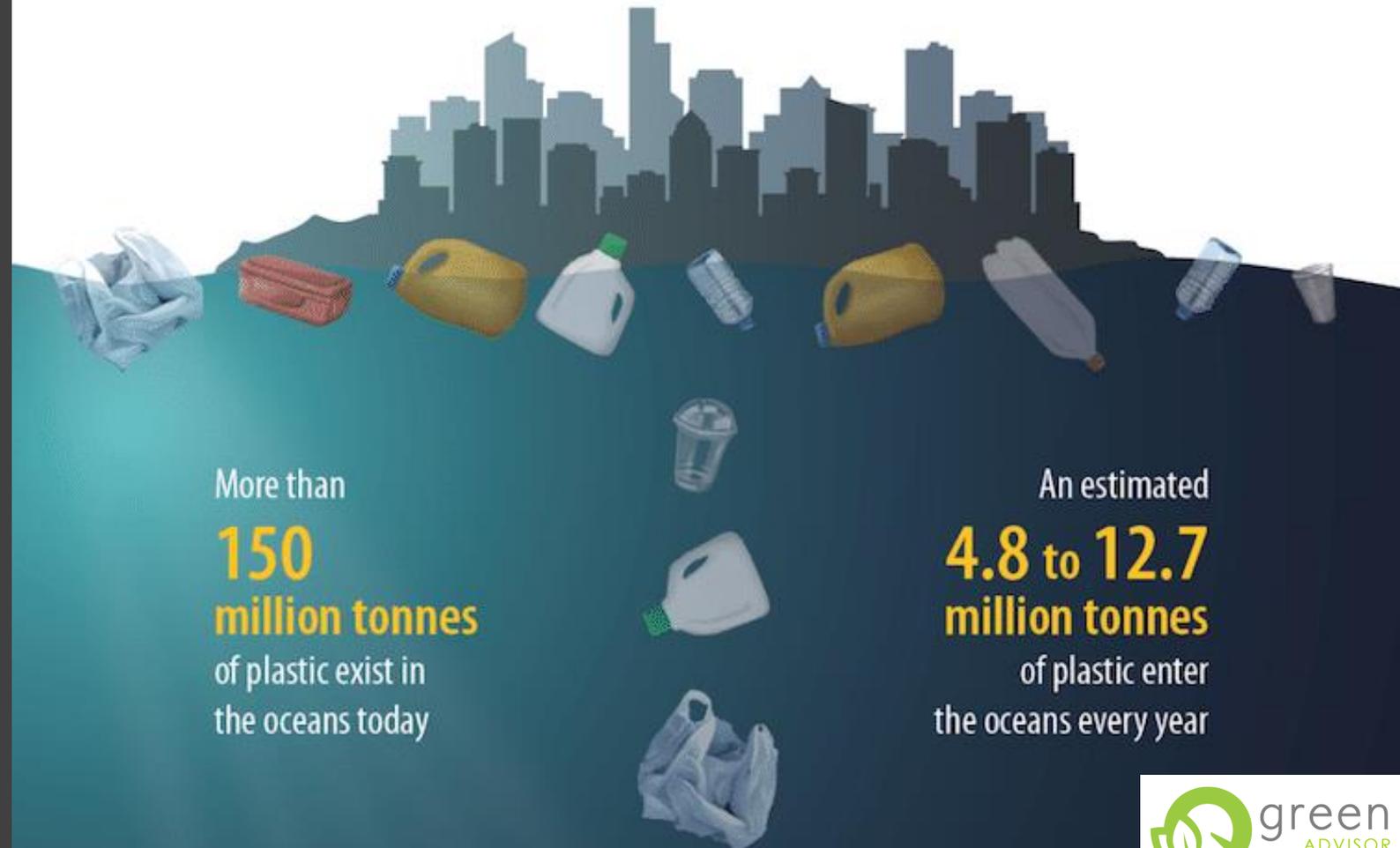
## Ban of single-use plastic

The problem of plastic pollution created mainly by disposable of plastic, and more specifically of single use plastics, is significant.

The EU has already approved a ban on disposable plastic. The Environment Committee proposes the removal of disposable plastics for which substitutes such as straws, cutlery, plates, stirrers, etc. are available.

There is also a number of proposed measures for the rest, such as the restriction on the use of plastic food and glass containers.

Other plastics, such as bottles, should be collected separately and recycled by 90% by 2025.

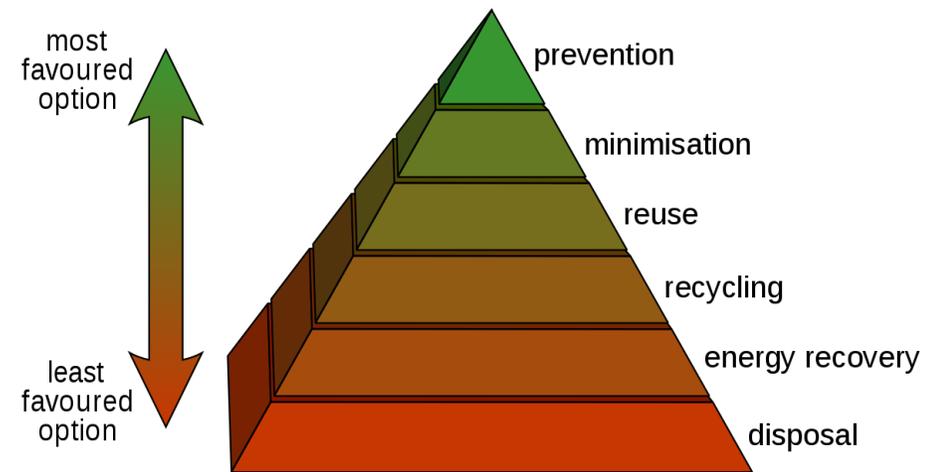


## Integrated waste management programs

The adoption of integrated waste management practices in the hotels can respond to all of the above problems and meet the requirements of legislation with direct and indirect benefits for the businesses.

A waste management program for hotels is a comprehensive plan of interventions aiming at reducing waste generation, maximizing reuse and recycling, recovering and diverting useful materials from burial.

Its components are the distinct management of clean streams before they are mixed with waste (packaging waste, kitchen waste, etc.), saving costs by adopting good practices and improving the hotel's environmental image.





### Benefits of Integrated Hotel Waste Management

- ✓ saving raw materials and energy
- ✓ increasing the recovery and recycling rates of the waste generated
- ✓ lower operating costs and higher operational efficiency
- ✓ monetization of the recycling of recovered materials (mainly cardboard, plastics and metals)
- ✓ satisfied customers
- ✓ reducing the overall environmental footprint of hotels and protecting the environment



**Up to 70% Recycling**

**Reduction of municipal taxes**



**Competitive advantage, Building a green profile**

**Emissions' reduction**



# ADVISORY SERVICES



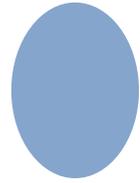
For the implementation of an integrated waste management system of a hotel facility, the Consultant -Qgreen proposes a work package that is implemented in three (3) phases and can be tailored to the specific needs of the company:

**Phase A:** Study the current solid waste management situation of the hotel facility – drafting the baseline

**Phase B:** Design of an integrated waste management program for the hotel

**Phase C:** Implementation of the integrated waste management program within the hotel facility

## Phase A

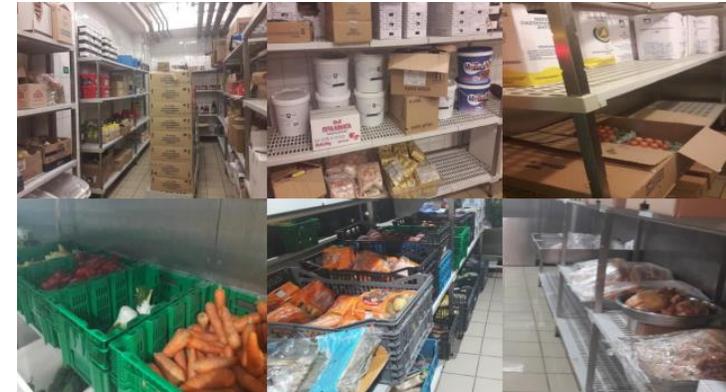


### RECORDING THE EXISTING SITUATION

At this stage, the consultant determines the existing waste management situation in the hotel unit, to determine the existing material recovery / recycling rates, understand the daily waste management procedures and identify relevant weaknesses of the system. Also, the inventory of existing sources and practices of waste management are necessary actions for the design of the new Phase B program.

More specifically, Phase A of the project includes:

- **a map of the sources of waste generation** and the categories of waste generated per source.
- **recording and analyzing** the packaging materials of input products in the enterprise and identifying material flow.
- **recording of existing waste management practices** at the hotel by department and by type of waste stream (e.g. kitchens, restaurants, rooms, meeting rooms, etc.).
- determination of the **quantitative and qualitative composition** of the waste generated.
- identification of the existing **recycling rate**.



Looking into the supplies



Looking into the waste



## Phase B



### PLANNING OF INTEGRATED WASTE MANAGEMENT PROGRAM

At this stage, the consultant will take all the necessary steps to redesign the hotel's waste management system to meet the company's needs and the recycling targets it needs to achieve in terms of sustainability.

More specifically, Phase B of the project includes:

Drafting a Feasibility Study for the hotel waste management to gradually increase material recovery and minimize waste disposal. This study will include at least:

- **identifying recovery targets** for different categories of waste streams.
- **setting alternatives** for managing the different categories of waste inside and outside the hotel establishment and evaluating them in techno-economic terms. (development and evaluation of scenarios).
- **suggestions** for product replacements, with products that significantly reduce packaging materials to be disposed of.
- **identifying** the necessary **waste management equipment** (e.g. number, sort and size of waste sorting bins, size - press capacity, etc.) so that there is no system failure and loss of resources from the purchase of inappropriate management equipment.
- **economic analysis** - determination of revenue and expenditure of the proposed program.





## IMPLEMENTATION OF THE PROGRAM

Phase C includes all the necessary actions to implement an integrated waste management system based on the B-phase design.

More specifically, Phase C of the project includes:

- **Creation of a guide** for implementation and monitoring of the waste management program based on the needs of the hotel, including steps / instructions for implementing practices / actions.
- **Supporting** the company in the **purchase of the appropriate equipment** and in formulating the terms-contract with waste collection and transport companies.
- **Formation and training** the hotel waste management team - Division of responsibilities.
- **Record and track record** of different program waste categories and development of relevant performance indicators for the system.
- **Records and auditing** of collection and transportation of waste that the company needs.
- **Informing** all the company's staff about the recycling program implemented and the importance of proper waste management.
- **Targeted training** of staff directly involved in the waste management plan. Staff training on the waste management program procedures they need to implement.
- **Supporting the company** in the implementation of the program - Monthly audits by the consultant.
- **Evaluation report and presentation** of program performance at the end of the tourist season.



Together we can achieve the sustainable management of your waste!



70%





Ask us about  
the Zero Waste  
Programs



*Waste Management &  
Sustainable development*

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