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CASE HISTORY – Services Catering canteen

STRUCTURE
Government building Republic of Maldives

DATI CLIENTE		
Place	**Dimensions**	**Tipology**
Malè (Maldives)	medium size (cafeteria)	Canteen of the government building of the Republic of Maldives. In addition to the numerous officials and employees, the canteen also offers meals to the various guest delegations of the Government.



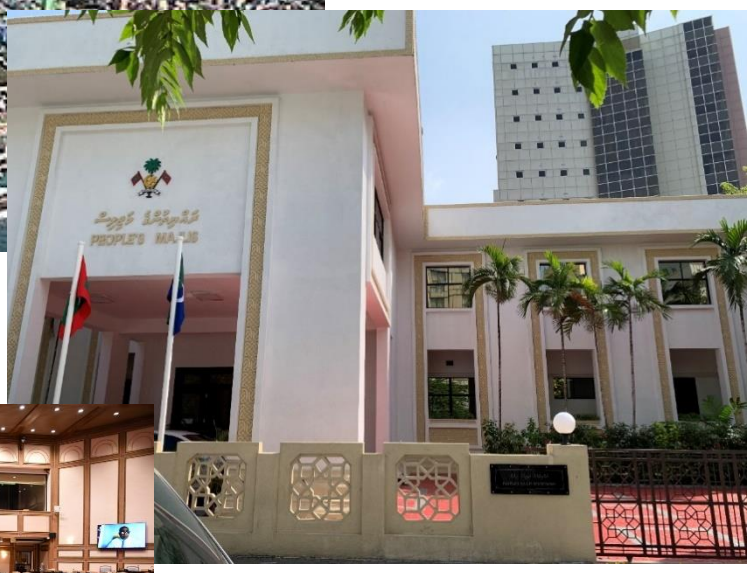
PROBLEM

- It is of primary importance to eliminate bad smells from the waste collection and storage area, also due to the strong heat present in the area, they have a bad impact due to the important presence of staff and guests of the government building. In addition, the property is located in the center of the capital Male, where there is a huge concentration of tourists and residents. The image of the government must be preserved.
- Improve the hygienic and sanitary conditions of the waste storage environments (of primary importance)
- Reduce the use of staff for the frequent washing, conditioning and sanitization of bins dedicated to the collection of wet waste (large quantities of waste and food remains of all kinds discarded after meals)
- Reduce the presence of insects, mice and other animals as well as decidedly annoying odors that lurk near the containers of organic waste
- Reduce the costs of evacuation (every week) organized by vehicle transport through the capital and then to islands used as incinerators
- Finding a sustainable solution in line with the Eco-sustainable policy, set by the Gov., capable of reducing the impact of CO2 produced and in line with the nature protection program. It must be an example for everyone that starts from the top.

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STRUCTUR DESCRIPTION

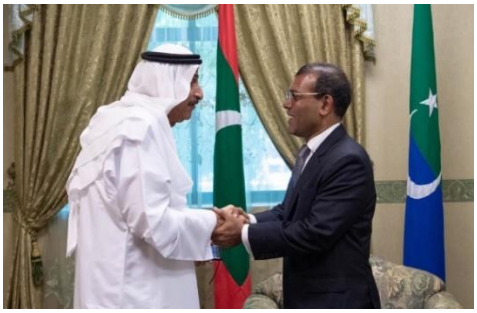








Typical government structure with administration and representation services. An average of 80 permanent employees work in the structure, in addition to approx. 90 members of parliament who meet occasionally for scheduled sessions.



Almost daily they host foreign delegations for political discussions. The structure manages an average of 80-120 breakfasts and meals with an average daily waste of 70-80 kg.The use of a machine is necessary to carry out from one to three work cycles every week and, an aspect not to be underestimated, it also acts as a fully sealed bin.



- Type of organic waste — Significant amount of waste fruit, vegetables, fish and carbohydrates
- Average daily amount of organic waste produced — 70-80 Kg

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ORGANIC WET WASTE COLLECTION SERVICE

The collection is managed directly by the structure through its internal services. It happens by accumulating organic waste in secluded corners of the garden, smelly and full of insects, mice and other animals. Once a week, it is collected and transported through the streets of the capital, and then to islands (near the capital Malè) for the collection and incineration of waste

This management was quite expensive and above all in stark contrast to the image and policies of the Government, in stark contrast to the political objectives set.

SOLUTION ADOPTED

Purchase and use of a no. 1 EFR100 EcoSwiss machine to manage all the organic wet waste produced daily by the canteen of the government building.

Installation of the machinery in the area reserved for catering services, adjacent to the preparation area represented by the main kitchen. The little condensed water produced is evacuated to the nearby drain.





Average daily quantity of product that can be reused directly on site as a soil improver for plants and flowers: 20-30 kg per machine.

Impact on waste with use of EFR

- Kg of annual organic waste produced: 24,000 - 30,000 Kg
- **Reduction of organic waste produced / year about 80-90%**
- **Kg di rifiuto organico in meno/anno fra i 19'000 – 25'000Kg**

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List of Advantages and Economic Savings (quantifiable)

- Total elimination of bad smells around the whole area **non-quantifiable value but of fundamental and great impact / image / example for the government and its prestige at national and international level; fundamental aspect for choosing the purchase of machinery**
- Total elimination of the need to use a refrigerated cell for the storage of organic waste (100%); **value of approximately € 10,000**
- Total elimination of the maintenance and repair costs of the refrigerated cell; **value equal to € 1,200 / year**
- Reduction of personnel costs for cleaning, reconditioning and sanitizing the refrigerated area **(about 80%)**; **value equal to € 1,200 / year**
- Improvement of the decor and general cleaning of the external and internal area of the structure; **an unquantifiable value but of great and fundamental impact / image**
- **Total elimination of costs** and management for the disposal of organic waste, thanks to the elimination of the need to store and transport them by sea
- One-off savings: **€ 10,000** (5x refrigerated cell)

Average-annual savings: about **€ 4,000** (and residual use as a mixed composted soil conditioner directly on site)

Clean working environment, free of leachate and unpleasant odors: **the image for the resort towards its guests is priceless!**

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Positioning and use of the machinery: area near the kitchen













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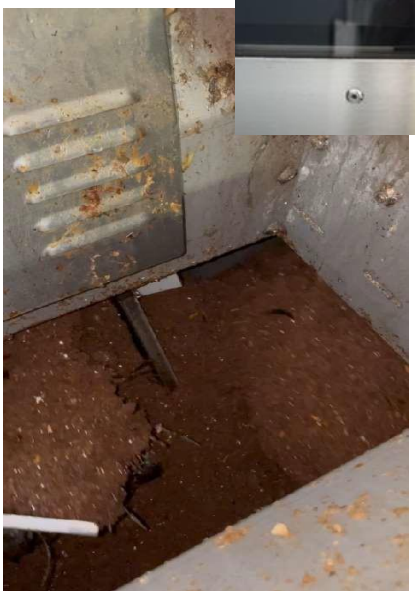
Initial discard and final result





End of cycle and final residual discharge from the EFR100 tank







Working tank interior view at the end of the cycle



Beginning of draining of the tank into the collection container

The resulting dry solid residue is largely used as a valid mixed soil conditioner for vegetable gardens, plants and flowers grown at Km Zero in the same area of the structure.

Eco-sustainable solution aimed at pursuing the reduction of CO2 emissions