EcoSwiss SA – Switzerland (TI)
Via alla Ramogna 12 – 6600 Locarno
TEL +41 91 792 39 70 – FAX +41 91 780 54 53
info@ecoswiss.eu – www.ecoswiss.eu

CASE HISTORY – Hotel Catering Services

STRUCTURE
Klima Hotel Milano Fiere

DATI CLIENTE		
Place	**Dimensions**	**Typology**
Milano (I)	big dimensions	With its ideal location near Rho Fiera, the Klima Hotel Milano Fiere offers business and leisure travelers comfortable rooms, extensive meeting facilities and a restaurant.



PROBLEM

- It is of primary importance to eliminate bad smells from the waste collection and storage area (alternatively they had evaluated the purchase of a refrigerated cell, aborted due to lack of space and probable breakages and maintenance typical of the summer season)
- Improve the hygienic and sanitary conditions of the waste washing and storage environments (of primary importance)
- Reduce the use of staff for the frequent washing, conditioning and sanitization of the bins dedicated to the collection of wet waste (large quantities of orange peel and almost entirely fish)
- Reduce the presence of insects and wild animals (mice, cats and birds) that nest near the organic waste containers during the waiting period for the waste to be taken.
- Reduce costs due to the use of biodegradable-compostable bags.
- Finding a sustainable solution in line with the hotel management policy which proposes itself as an Eco-sustainable structure capable of reducing the CO2 impact produced by its business such as the use of solar panels and raw materials for food preparation at Km Zero.

EcoSwiss SA – Switzerland (TI)
Via alla Ramogna 12 – 6600 Locarno
TEL +41 91 792 39 70 – FAX +41 91 780 54 53
info@ecoswiss.eu – www.ecoswiss.eu

STRUCTURE DESCRIPTION



Built according to the latest ecological and anti-seismic techniques, our hotel is the first green hotel in Milan. Thanks to our facade composed of solar panels, we produce most of the energy needed for the hotel's activities. For the convenience of our guests, there are sockets in the parking lot to recharge electric cars and bicycles.

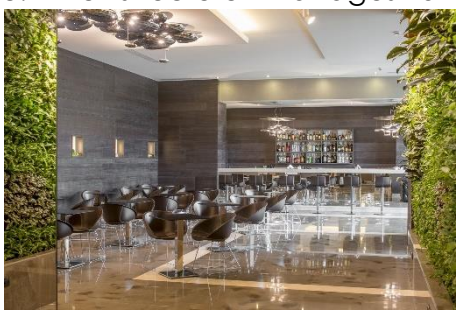
Cosmopolitan and elegant structure, located near the Milan exhibition center.
It is the first green hotel in Milan which, thanks to its facade composed of solar panels, produces most of the energy needed for the hotel's activities..



All the preparation activity uses first choice products with particular production of organic waste during the breakfast and dinner service.



All the daily preparation waste produced is collected in small bins and progressively loaded into the EFR 50 machine. The structure manages an average of 150-180 breakfasts and meals with an average daily waste of just under 100Kg and sometimes higher on fair and weekend days.



- Type of organic waste: Significant quantity of orange / lemon peel as well as fish, crustacean, meat, pasta, rice waste, etc.
- Average daily amount of organic waste produced: 80-90 Kg

ORGANIC WET WASTE COLLECTION SERVICE



The collection is managed by the municipal company on a bi-weekly basis.

EcoSwiss SA – Switzerland (TI)
Via alla Ramogna 12 – 6600 Locarno
TEL +41 91 792 39 70 – FAX +41 91 780 54 53
info@ecoswiss.eu – www.ecoswiss.eu

SOLUTION ADOPTED

Positioning and use of the machinery: area adjacent to the washing machine



Using a no. 1 EcoSwiss EFR 50 machine to manage all the organic wet waste produced daily by the structure, taking into account the most significant quantities linked to the period of fairs and high seasonality.

Installation of the machinery in the area adjacent to the washing area, adjacent to the preparation area represented by the main kitchen of the hotel. The little condensation water produced during the cycle is evacuated to the nearby waste water drain. (see following photos).

The resulting dry solid residue is partly used as a valid mixed soil improver for the green areas of the structure and partly disposed of every two weeks as organic waste, instead of the previous bi-weekly frequency with all the advantages of simple storage in an area only located at the shelter from the rains, without the emission of any annoying odor.

Impact on waste with use of EFR

- annual organic waste produced approx. 30.000 - 32.000 Kg
- o reduction of organic waste produced / year **over 70%**
- o organic waste in less / year over **21,000 - 22,500Kg**

EcoSwiss SA – Switzerland (TI)
Via alla Ramogna 12 – 6600 Locarno
TEL +41 91 792 39 70 – FAX +41 91 780 54 53
info@ecoswiss.eu – www.ecoswiss.eu

List of Advantages and Economic Savings (quantifiable)

- Total elimination of bad smells in the vicinity of the entire structure, a **value that cannot be quantified but has a great impact / image for the structure and its prestige. Fundamental aspect for the choice of the purchase of the machinery.**
- Total elimination of the need to use a refrigerated cell for the storage of organic waste **(100%) worth over 8,000 €**
- Total elimination of the maintenance and repair costs of the refrigerated cell **value over 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 area of the structure
- Drastic reduction in the use of biodegradable-compostable bags for a value of **a few thousand euros / year**.

One-off savings: € 8,000 (refrigerated cell)

Average-annual savings: over € 6,500 (and possible use of part of the dry residue as a mixed composted soil conditioner in the adjacent green areas)

EcoSwiss SA – Switzerland (TI)
Via alla Ramogna 12 – 6600 Locarno
TEL +41 91 792 39 70 – FAX +41 91 780 54 53
info@ecoswiss.eu – www.ecoswiss.eu

Positioning and use of machinery: washing area






End of cycle and final residual discharge from the EFR 50 tank

View of the inside of the tank at the end of the cycle after the unloading of the dry solid residue obtained




Examples of dry residue produced and discharged at the end of the cycle with different mixes of loaded waste



