

Template for Web-Presentation of Innovative Projects

Project Acronym: PGRS – Afonso Pena International Airport

Project full Title: Solid Waste Management Plan - Afonso Pena International Airport

Project type: Project of demonstration solid waste management

Start / End of the Project: Start: Dec/2000 /End: Jun/2001(report), the implementation is an ongoing process (timeless)

Institution/Organization: SENAI – CETSAM (Center of Technology on Sanitation and Environment)

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The project is funded by: Infraero - Infrastructure Airport _____

Project website: www.mp.pr.gov.br (centros de apoio/ meio ambiente/ plano de gerenciamento de resíduos sólidos/ seminários)

Keywords for search engines: waste generation, waste avoidance, waste management, recycling, separation, airport, Brasil, SENAI, INFRAERO



Foto 1: Afonso Pena International Airport. By: Elcio Herbst, 2004.



Foto 2: Waste separation at Afonso Pena International Airport, Curitiba, Brazil. By: Elcio Herbst, 2004



Foto 3: Waste storage. By: Elcio Herbst, 2004.

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Characterize the type of activity realized in the project:

	Not relevant	weight in the project				
		low				high
Basic Research	0	1	2	3	4	5
Technology development in Engineering	0	1	2	3	4	5
Test under real life conditions: technology, concept	0	1	2	3	4	5
Study on socio-cultural compatibility and impact	0	1	2	3	4	5
Development of implementation concept	0	1	2	3	4	5
Policy design	0	1	2	3	4	5
Identification of target areas	0	1	2	3	4	5
Contribution to capacity building and education	0	1	2	3	4	5
Assessment/evaluation of implementation	0	1	2	3	4	5

Description of the project:

Type of project (applied research, basic demonstration, full scale, pilot study, etc.)

Compliance of legal dispositions, full scale Waste Management

Overall Objectives

Minimize the generation of solid waste and achieve a correct handling, starting from segregation, storage, transport and distribution of all waste generated at the facilities and aircrafts.

Type of Waste targeted

Previous to the introduction of the SWMP there was any use of the recyclable waste, considering all the residues coming from aircrafts as hazardous (septic). These were taken to a septic waste unit, increasing thereby transportation and final disposal costs. Wastes coming from airport facilities were taken to a sanitary landfill, not adding value to waste, causing major environmental impacts and decreased the life-time of the landfill, because many recyclable were improperly conveyed to it.

All kinds of solid waste from the airport were dealt:

- Aircraft wastes, industrial waste (hangars), wastes of Cargo terminal, wastes of passenger terminal and wastes of offices.
- Waste recycling: Paper, plastic, metal, glass, rubber, banners, tires, etc.
- Hazardous waste: Oil aircraft, fluorescent lamps, chemical products, asbestos, health wastes, etc.
- Organic waste: Remains of food, wastes of pruning vegetation and so forth.
- Tailings: Laminated paper, bathrooms wastes and so on.

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Applied Results and Impact

By implementing the SWMP, habits in segregation, collection, storage and management of the different residues were changed. The recycling processes were one of the priorities of this plan, as well as reducing the volume of waste in the whole airport. Apart from training the fix staff, a working team called "Waste Management Commission" was created, which includes members of the various companies that are part of the airport complex.

With the implementation of the SWMP it was possible to reduce costs from R\$ 65.000,00 (before the SWMP) to R\$ 24.000,00 (2005), achieving a reduction of approximately 60%.

Standards, Indicators, Criteria for Assessment

The project considered environmental laws, resolutions and standards, specially the Federal Law 9605/98, and the Resolutions CONAMA 05/86 and Anvisa 217/2001.

Institutions/Organization involved

SENAI-CIC/CETSAM and INFRAERO

Geographic Target Areas for the Innovation

Expected basic Scientific Progress

Contribution to Capacity Building and Education

The project succeeded by changing the staff behaviour that acts at the same time as multiplier agent at their homes and daily lives. In addition, all recyclables are donated to an Association for Mothers and Children Protection, meeting thus one of the objectives of Infraero, which is the social responsibility, introducing at the same time a better environmental practice.

Technologies applied or improved

Social target groups involved

Publications on project results if applicable:

WP3_BPP_P08_Brazil_SENAI-1_Infraero_19-11-08.doc

www.WasteNET.de

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Allow the public of the information at www.wastenet.de

YES X _____ NO _____

WasteNet thanks you in advance for your input!

Send your information to: waste.net@t-online.de.