



Progress Report as of May 15 <sup>th</sup> , 2010			
<b>04-B-07</b>	<b>Clean Bhutan and Costa Rica: design and implementation of an integrated and sustainable system for solid waste management in the city of San José, Costa Rica and Bhutan</b>		
<b>Thematic area</b>	Sustainable Chains of Production and Consumption		
<b>Partner countries</b>	Costa Rica and Bhutan		
<b>Lead organization</b>	Asociación Centroamericana para la Economía, la Salud y el Ambiente (ACEPESA)		
<b>Partner organization</b>	Royal Society for Protection of Nature in Bhutan		
<b>Budget</b>	<b>PSC</b>	\$599.931,00	
	<b>Counterpart</b>	\$277.879,00	
<b>Execution period</b>	July 25th, 2008 - August 1st, 2010		
<b>Work plan execution</b>	According to the plan		
<b>Percentage of advance</b>	95 %		
<b>Beneficiaries</b>	Costa Rica: in San Jose; Population from the District of Hatillo, San José		
	Bhutan: Municipalities of Thimphu, Phuntsholing, Paro, Gaylegphug and Samdrupjonkhar		
<b>Overall Objective</b>	<b>Specific Objectives</b>	<b>Expected outcomes</b>	<b>Outcomes of the activities realized</b>
To improve state of environment through establishing an integrated and sustainable solid waste management system and raising awareness of the people in both rural and urban area of Bhutan and in the Hatillo district of the San Jose Municipality, Costa Rica with the participation of the stakeholders	CR: Strengthen the solid waste operative and administrative management of the municipality	An assessment of the situation for the implementing of the integrated and sustainable solid waste management system	An assessment of the situation for the implementing of the integrated and sustainable solid waste management system
		Proposals of reforms to national legislation and internal regulatory proposal, if is necessary.	Proposals of reforms to national legislation and internal regulatory proposal, if is necessary.
		The operative process for solid waste management fortified	We continue to work on the enhancement of this operative process, this establishment of the route for the Collection of the recycling material in Hatillo is pending.
		Elimination of illegal dumping and remediation of areas.	It is important to make note that there have been 12 daily cleaning sessions and a total of 352 tons of solid waste has been collected in the District of Hatillo. These two days have resulted in a total of 118 trips to the disposal center and back. The implementation of this activity will continue until the end of the project implementation period.



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		Incentive system for neighbourhoods implemented	The design of incentives that would be implemented was decided to be established within the municipal regulation for the integrated solid waste management.
			Since the development of a final version of the regulation will not be completed until the month of April it has not yet been validated with the Development Association, an activity which will resumed in the coming months, as well as the presentation of the incentives for the communities.
		10 events/year	This activity has a big impact for the community in the district of Hatillo. In developing the project the MSJ introduced it as part of their counterpart contribution. Subsequently the coordinating committee was informed that legally the MSJ was not legally allowed to do the cleaning up rivers and streams, according to procedures that SETENA established. This is the reason why the committee worked on researching and clarification of the legal aspects, before carrying out this activity. The necessary process for approval has been completed in SETENA. However, this being a municipal counterpart activity, the budget must be approved by the Controller General of the Republic and this approval has not yet been received, therefore the activity has not been executed.
		4 events/year	A total of 12 collection campaigns were completed from January to October 2009.
	CR: To implement alternative systems for the separation at source, segregation and recycling of the eligible waste to be returned to the productive cycle	A research report about processing construction waste, tires, among others	A research report about processing construction waste, tires, among others
		At least 60% of the families of the district are separating at source the recyclable materials	This activity is expected to develop in a large scale once the transfer center is in operation. Work so far has been done in the public awareness with the district families and large community activities promoted by the MSJ in the District.
		A solid residues management system fortified, including recovery in the source of recyclable materials	There will be a center for the collection of recyclable materials, which will be inaugurated on June 17, 2010. It will have the necessary equipment and human resources to operate correctly. This is a center that will be state of the art in recycling of materials.



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			<p>Work has been in public awareness as well as the designing and printing of education materials. The organizing of the collection routes are still pending. The commercialization mechanisms are already established by the Municipality. The principal social actors have been identified and whose role will be the sustainability of the integrated waste management system.</p>
	<p>CR: Strengthen technical, behavior and leadership competences, in both men and women, of the community organizations and the private and institutional sector, so that they promote the development of the educational and cultural elements that encourage attitudes and habits of environmental solid waste management</p>	<p>Implementation of an environmental education Program</p>	<p>The education subcommittee has worked on the formulating of the following documents:</p> <ul style="list-style-type: none"> <li>§ The draft document which was the basis for formal training</li> <li>§ Workshop held with teachers from the Hatillo district.</li> <li>§ The proposed methodology developed by the Education Commission.</li> <li>§ The terms of reference of the consultancy for the design of educational materials</li> <li>§ Training workshops held in the District of Hatillo for different actors: communities and educators</li> <li>§ The preparing of the invitation sent for the public awareness activity done on October 3, 2009, and addressed to the community leaders.</li> <li>§ All materials developed by the consultant of the design of educational materials: poster, pop, stickers, characters, logo and slogan of the project, coloring book for children and moopy, the latter is still under review. The moopy will be placed by the MSJ in August.</li> </ul> <ul style="list-style-type: none"> <li>§ Training sessions given to the public.</li> <li>§ Training plan and proposed methodology for training of</li> </ul>



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			<p>This activity was not scheduled, however, is expected to serve for the dissemination of the project.</p> <p>§ We conducted a special workshop on the development of organic fertilizer, which was not scheduled, but with the presence in the country of a Dutch specialist in the field, it was scheduled in coordination with the MSJ. This was funded in part with funds from another project that is currently under ACEPESA's coordination.</p> <p>§ Proposal to update the feasibility study this activity will be executed in the next quarter.</p> <p>§ <b>A total of 408 people (311 women and 97 men) have been trained to this date.</b></p>
		<p>Constitution of a network of stakeholders linked to the topic</p>	<p>What it has been achieved is the coordination with the Development Association and the circuit 06 of the Ministry of Education. The alliance was established in 2009 with the University of Costa Rica, it includes that for 2010, another group of students from the school of psychology, can c conduct this type of practice in the District, therefore they have requested the presenting of a proposal for the establishment of coordination and communication mechanisms among the social actors involved</p>
		<p>Study tour to Bhutan Study tour to Costa Rica</p>	<p>As reported, with the approval of the project officer FUNDECOOPERACION, there was a technical visit by ACEPESA to Bhutan in January 2009, with the aim of improving the relationship with RSPN and to support the development of technical and financial reports. The visit resulted in being very positive, since all of the items on the work plan were completed as planned. Also it helped to establish a better relationship and communication mechanisms with the counterpart. It enabled the knowledge and exchange of information on the activities being undertaken, as well on the part of ACEPESA a better assurance of the work being done by the partner organization in Bhutan. In the month of March 2010 a delegation from Bhutan visited Costa Rica. The delegation consisted of five people, representatives of RSPN, the Ministry of Housing, the Ministry of Human Settlements and the Municipal Corporation of Thimphu. The end of visit evaluation indicated that the visit was very successful according to assessment of the delegation. The visit to Bhutan from a delegation of Costa Rica is scheduled for June this year</p>



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Overall Objective	Specific Objectives	Expected outcomes	Outcomes of the activities realized
<p>To improve state of environment through establishing an integrated and sustainable solid waste management system and raising awareness of the people in both rural and urban areas of Bhutan and in the Pavas district of the San Jose Municipality, Costa Rica with the participation of the stakeholders.</p>	<p>Bhutan: To develop waste management alternatives through research</p>	<ul style="list-style-type: none"> <li>§ Study alternatives to poly-plastic bags</li> <li>§ Adoption of the research recommendation in the government policy in banning plastic carry bags</li> <li>§ Feasibility study on scrap dealing options</li> <li>§ Conduct feasibility study on 'buy back' packing materials options</li> <li>§ Carry out research on cost effective and user friendly dustbins</li> <li>§ Carry out research on alternative environment friendly products</li> <li>§ Findings and recommendations shared with partners and stakeholders</li> <li>§ Research findings integrated into relevant policies</li> </ul>	<ul style="list-style-type: none"> <li>§ Study conducted on plastic alternative</li> <li>§ Research documents and proposals were developed for the following topics:</li> <li>§ Study on poly bags and strategies to reduce their use, Study on scrap dealing, Study on Environment Friendly products, Study on buy back system on packing materials.</li> <li>§ The above documents have been reviewed and accepted by the project coordination and should be directed to government authorities for inclusion where possible in policy.</li> </ul>
	<p>Bhutan: To increase the level of awareness among various sectors of the society on waste issues</p>	<ul style="list-style-type: none"> <li>§ Increased level of awareness among the people on waste issues Develop education and awareness materials</li> <li>§ Increased level of awareness among the people on waste issue Advocate education and awareness materials through various media</li> <li>§ Establish Mobile Advocacy Teams (MAT)</li> <li>§</li> </ul>	<ul style="list-style-type: none"> <li>§ Clean Bhutan Day a success and declared as a annual event with approval form Ministry of Home and Cultural Affairs. Clean Bhutan Day marked for second time in 2009.</li> <li>§ Production of Clean Bhutan theme song and video</li> <li>§ Education and awareness materials developed</li> <li>§ Education materials advocated to various target audience</li> <li>§ Mobile advocacy team established</li> <li>§ Advocacy for all dzongkhags (districts) conducted</li> </ul>



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	<p>Bhutan: To develop a system of solid waste management both rural and urban areas</p>	<ul style="list-style-type: none"> <li>§ Coordinate with all Dzongkhag and gewog administrators for one cleanup campaign</li> <li>§ Provide basic waste disposal facilities</li> <li>§ Village level awareness and clean up campaigns coordinated by Dzongkhags</li> </ul>	<ul style="list-style-type: none"> <li>§ One cleanup campaign conducted for all districts and gewogs (blocks) of clean up campaigns</li> <li>§ Waste collection decreased by 30%</li> <li>§ Basic waste disposal facility provided for each district or village</li> <li>§ Awareness and clean up campaigns completed by most villages</li> </ul>
	<p>Bhutan: To enhance the capacity and coordination among various stakeholders</p>	<ul style="list-style-type: none"> <li>§ Conduct committee consultation meetings with stakeholders</li> <li>§ Conduct training workshops for business communities on waste reduction</li> <li>§ Conduct advocacy training for MAT</li> <li>§ Initiate experience sharing and learning between Costa Rica and Bhutan</li> </ul>	<ul style="list-style-type: none"> <li>§ Steering committee and task force participation enhanced</li> <li>§ Required consultation workshops/meeting organized</li> <li>§ Training workshops for MAT and business communities completed</li> <li>§ One exchange program on experience sharing and learning between Bhutan and Costa Rica completed</li> </ul>

Photo Gallery



Training workshops given to community representatives in Hatillo. March ,2010



Meeting conducted at the ACEPESA office with representatives of the coordinating committee and the Delegation from Bhutan. March, 2010



Poster prepared for the project



Center for the Recuperating of Recyclable Materials in Hatillo in its construction phase. April, 2010



Sample of the jute and-woven bags:  
This bags are been produced in mass number as part an alternative to conventional plastic carry bags.

alternative environment friendly product



Impact Indicators

Chart 1A. Impacts										
INDICATORS RELATED TO PEOPLE BENEFICIATED AND TRAINED										
Code	Indicators	Benin		Bhutan		Costa Rica		TOTAL		Comments
		M	F	M	F	M	F	M	F	

Chart 2A. Impacts								
OTHER INDICATORS								
Code	Indicators	Benin		Bhutan		Costa Rica	Total	Comments
		Bhutan		Bhutan		Costa Rica		
A53	Number of new permanent work positions							
A9	Number of families that improved their annual incomes							
A11	Estimation of total CO2 emission reduced (metric tons)							
B51	Quantity of increased incomes from sustainable products marketed							
B53	Quantity of wastes well managed							



## PROGRAMME FOR SOUTH-SOUTH COOPERATION

### Outcome indicators

Chart 1B. Outcomes										
INDICATORS RELATED TO PEOPLE BENEFICIATED AND TRAINED										
Code	Indicators	Benin		Bhutan		Costa Rica		TOTAL		Comments
		M	F	M	F	M	F	M	F	

Chart 2B. Outcomes						
OTHER INDICATORS						
Code	Indicators	Benin	Bhutan	Costa Rica	Total	Comments
A16	Number of new products		6		6	
A17	Number of new services		5		5	The community in Phobjikna Conservation area were provided with the basic waste disposal facility and taught on the waste management practices. For Dewthang, one institute took the lead in setting un the waste disposal scheme within their institutions vicinity. Pet shreeding machine in Thimphu
A35	Number of technologies* transferred between participant countries					
A50	Number of initiatives generated through the experience of the project execution					
A40	Number of training facilities (installations)			17	17	Corredor Biológico MSJ and Hatillo
B22	Number of installed equipment for waste management		1			
B24	Number of Solid Waste Management Centre operating					
B25	Number of communities with a waste management system		2		2	
B26	Number of families participating in waste management programs					
B40	Number of enterprises or centres applying new technologies of sustainable production or waste management					



Output indicators

Chart 1C. Outputs										
INDICATORS RELATED TO PEOPLE BENEFICIATED AND TRAINED										
Code	Indicators	Benin		Bhutan		Costa Rica		TOTAL		Comments
		M	F	M	F	M	F	M	F	
A1	Number of direct beneficiaries (Training, workers, others)			45	45	97	311	142	356	
A55	Number of people with a leadership role			0	0	5	2	5	2	
A56	Number of people participating in productive activities			12	8	0	0	12	8	
A42	Number of people trained			30	30	97	311	127	341	School children taught in basic art using only primary colors and waste materials for art work
A43	Number of people trained to be trainers			12	8	2	28	14	36	Participated in the Happy bin Program
A44	Number of people trained on entrepreneurial and managerial skills			0	0	0	0	0	0	
A45	Number of people trained on technical skills			0	0	0	0	0	0	
B21	Number of people trained in waste management			0	0	0	0	0	0	



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<b>Chart 2C. Outputs</b>						
<b>OTHER INDICATORS</b>						
<b>Code</b>	<b>Indicators</b>	<b>Benin</b>	<b>Bhutan</b>	<b>Costa Rica</b>	<b>Total</b>	<b>Comments</b>
A5	Number local governments beneficated		20	1	21	All 20 districts in Bhutan benefitted from the Clean Bhutan Day
A6	Number of community based organizations beneficated			1	1	
A7	Number of communities beneficated/participating in the project		2		2	1 in Phobjikha Conservation area (western Bhutan) and 1 in Dewathang, Easter Bhutan
A21	Number of Private-Governmental partnerships				0	
A23	Number of NGO-Governmental partnerships		5	2	7	ACEPESA/MSJ and ACEPESA/UCR. Clean Bhutan Program
A26	Number of international experiences exchange events		5		5	
A41	Number of publications of good practices and training guidelines		3	8	11	CR: Poster, brochures, personages educative campaign, logo, coloring book, educational material for teacher Ministry of Educación, theme and stickers, moopy B:Publications in forms of stickers, brochures, DVD, reports were made available to the public as a medium of information sharing and knowledge building
D1	Number of activities organized with gender equity principles				0	