

J-PRISM FLASH

J-PRISM Big Launch

The J-PRISM, a 5-year regional solid waste management project by Japan International Cooperation Agency (JICA) has been launched in 11 countries in the Pacific in 2011.



April, 2012

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Japanese Technical Cooperation Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries (J-PRISM), the 5-year, regional project implemented by the Japan International Cooperation Agency (JICA) in partnership with the Secretariat of the Pacific Regional Environment Programme (SPREP) officially commenced in February 2011 with the arrival of the Chief Advisor Mr. Shiro Amano at the Project Office based in the SPREP Office Apia, Samoa. The first issue of “J-PRISM FLASH” provides an introduction of the J-PRISM and an update of the project activity in 2011.

Outline of the J-PRISM

Project Title	Japanese Technical Cooperation Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries (J-PRISM)
Donor Agency	Japan International Cooperation Agency (JICA)
Partner Organization	Secretariat of the Pacific Regional Environment Programme (SPREP)
Period	February 2011 – February 2016 (5 years)
Budget	940 million Yen (approx. US\$ 11 million) as of April 2012
Member Countries	Federated States of Micronesia, Republic of the Fiji Islands, Republic of Kiribati, Republic of Marshall Islands, Republic of Palau, Independent State of Papua New Guinea, Independent State of Samoa, Solomon Islands, Kingdom of Tonga, Tuvalu and Republic of Vanuatu (11 countries)
Beneficiary Countries	Member Countries, Cook Islands, Nauru, Niue
Overall Goal	Sustainable management of solid waste in the Pacific Region is enhanced
Project Purpose	Human and institutional capacity base for sustainable Solid Waste Management in the Pacific Region is strengthened through implementation of the Pacific Regional Solid Waste Management Strategy (2010-2015)

Background of the J-PRISM

In order to improve waste management in Pacific Island Countries (PICs), SPREP and JICA have been working together for more than ten years since 2000. The partnership was enhanced especially through JICA's previous technical cooperation project on "Solid Waste Management Project in the Oceania Region", which was based in the Independent State of Samoa and was implemented from 2006 to 2010. One of the remarkable achievements in the region resulting from the joint assistance of SPREP and JICA is the development of the Pacific Regional Solid Waste Management Strategy 2010-2015 (the Regional Strategy 2010-2015) after a series of consultation in 2009. This Regional Strategy 2010-2015 was unanimously adopted as the guiding principle for the region at the SPREP Meeting in November 2009. In response to the strong request of PICs for the continued assistance of Japan, JICA launched a new regional project, the J-PRISM, from February 2011, which is being implemented in eleven (11) PICs.

For the purpose of increasing the capacities of the human resources and institutions, that are responsible for Solid Waste Management in each country, and contributing to achievement of the goal of the Regional Strategy 2010-2015, J-PRISM dispatches Japanese experts and experienced local human resources who have skills and knowledge gained by JICA's previous cooperation, and they work on the project activity very closely with counterpart members in the form of on-the-job training.

Regional Activities Updates

1. Regional Training on Landfill Management in Vanuatu

The Regional Training on Landfill Management was conducted from 10th to 14th October 2011 in Vanuatu in cooperation with counterpart organizations in Vanuatu, the Department of Environment Protection and Conservation, and Port Vila Municipality. 14 participants from 5 countries (Fiji, PNG, Samoa, Solomon Islands and Vanuatu) gained technical knowledge and skill in how to improve waste disposal facilities and their operation using the Semi-aerobic Landfill Method through the 5 days' intensive lectures and practices at Bouffa Landfill in Port Vila. Those who have participated are now working on improvements of their own dumpsites in order to put the knowledge into practice.



Practical demonstration of installation of a multi-layer Leachate Treatment Facility at the Bouffa Landfill.

2. Steering Committee Meeting

The 1st Steering Committee Meeting (the SC Meeting) on J-PRISM was held on 14th September, 2011 in Apia, Samoa as a side event of the 22nd SPREP Annual

Meeting. Delegates from 7 counterpart countries and 2 associated countries, Mr. David Shepard, -the Director General of SPREP, Mr. Yuji Okazaki, -Senior Advisor to the JICA President and other persons concerned attended the meeting, which was chaired by Mr. Taulealeausumai Laavasa Malua, -Chief Executive Officer of the Ministry of Natural Resources & Environment in Samoa. The SC is the only official function at the regional level and it has responsibility for formulating policies for the operation of the project, reviewing and approving an implementation plan, as well as reviewing and evaluating on-going activities periodically. At the occasion of the 1st SC Meeting in the first year for the J-PRISM, the vision and background of the J-PRISM was shared by Mr. Shiro Amano, Chief Advisor of the J-PRISM and he presented the participants with the current progress of the project activities implemented in each country. Some country delegates made comments on the latest situations and challenges they are facing. Next SC meeting will be held in Noumea, New Caledonia in September during the 23rd SPREP Annual Meeting.



1st Steering Committee Meeting at Tanoa Tusitala Hotel, Apia, Samoa

3. Country Attachment Program

From 5th to 12th December 2011, J-PRISM's Solomon Islands Counterpart Mr. Kery Oge, Work Officer of Honiara City Council attended a week of on-the-job training at Bouffa Landfill in Port Vila, Vanuatu. The training was mainly conducted by Mr. Amos Matias, -Bouffa Landfill Manager and coordinated by with Ms. Carol Rovo, -Senior Environment Officer, the Department of Environment Protection and Conservation in the Ministry of Lands and Natural Resources, and Mr. Roger Tali, -Environmental Health Officer of Port Vila Municipality. After the week-long training, Mr. Oge stated that the training was very efficient because Solomon Islands and Vanuatu have similarities and the Ranadi dumpsite in Honiara can achieve proper waste management if operators and site managers have better knowledge on their tasks. "I am happy to assist my colleagues and friends from other regional counterparts because this also allows me to build my capacity and exchange my knowledge and views on critical issues covering waste and landfill management" said Mr. Amos Mathias. J-PRISM will promote a variety of Country Attachment Programs in the region as needed in the future.



(Left) Mr. Amos Matias, Bouffa Landfill Manager of Port Vila Municipality in Vanuatu and (Right) Mr. Kery Oge, Work Officer of Honiara City Council in Solomon Islands

4. Study Visit

(1) Counterparts (Samoa) Study Visit on Weighbridge System in Fiji

Samoa counterparts visited Lautoka in Fiji from 7th to 9th December 2011 for the purpose of observing the waste data management system and Waste Minimization Program of Lautoka City Council (LCC). The Ministry of Natural Resources & Environment (MNRE) in Samoa is planning to install a Weighbridge System at their Tafaigata Landfill under the J-PRISM in 2012. Therefore Ms. Fuatino Matatumua-Leota (Principal Chemical and Hazardous Waste Management Officer, MNRE), Ms. Ailepata Manila (Principal Accounts Officer, MNRE), and Mr. Setoa Apo (Principal Waste Management Officer, MNRE) attended a 3-day intensive programme at both LCC Office and Vunato Disposal Site in Lautoka kindly prepared by the J-PRISM Fiji counterpart members of LCC. They gained a lot of actual

experience on how the LCC has been properly managing the weighbridge operation system in terms of disposal fee levying mechanism, data recording and analysis system, etc., on the basis of their several years' experience of utilizing a weighbridge system through another JICA's successful technical cooperation project "Waste Minimization and Recycling Promotion Project in Fiji (JICA 3R Project)" (from 2008 to 2012). The participants from Samoa are expected to apply the management method of LCC successfully.



A staff of LCC is explaining the weighbridge operation system to the Samoa counterparts at Vunato Disposal Site in Lautoka, Fiji.

(2) Counterparts (Solomon and Tonga) Study Visit on 3R in Fiji

Solomon Island and Tonga counterparts visited 3R activity sites in Nadi, Fiji on 22nd February, 2012 and then on the next day, they participated in the Teacher's Workshop for the Western Division for the Clean School Program 2012 in collaboration with the JICA 3R project. The Clean School Program is a system developed by Nadi Town Council (NTC) in Fiji and a Japan Overseas Cooperation Volunteer (JOCV) dispatched to NTC in 2010 to give opportunities for schools to start proper waste management and to target children in creating awareness on the concept of waste minimization in schools, home and communities. Participants were as follows: Ms. Wendy Polo Beti and Ms. Ella Lois Rizwold Qoqonokana from Solomon Island, and Ms. Feauini Veikoso Laumanu, OIC MECC Vava'u and Mr. Yosuke Ikeda, JOCV at Vava'u from Tonga. From the workshop, the participants learnt how to incorporate waste minimizing activities into the classroom. As a result of the study visit, Solomon Island counterparts are now trying to include an idea of the Clean School Program in their 3R Promotion Pilot Project, and Tonga counterpart held a workshop in March 2012 inviting teachers to launch the Clean School Program in Vava'u.



Observation of collecting recyclables in Nadi Town, Fiji.

3. Others

- Samoan counterpart, Ms. Katenia Rasch, Senior Chemicals and Hazardous Waste Management Officer of MNRE, was accepted for a 2-year Master's program in Japan from April 2012 under the JICA Individual counterpart Training.
- Training courses on solid waste management inviting J-PRISM counterparts were conducted in Kobe, Kitakyushu, Tokyo and Yokohama in Japan in 2011.
- J-PRISM assisted SPREP Clean Pacific 2012 Campaign with funding for a Training Workshop in Fiji in February 2012 and campaign materials.

- 1st Joint Coordinating Committee (JCC) meetings held in February and March in all states.



The FSM Solid Management Experience Sharing Workshop in Kosrae



In-Country Activities Updates

FEDERATED STATES OF MICRONESIA



Expected Project Outputs

- | | Expected Project Outputs |
|---|---|
| 1 | National: The NSWMS and SSWMS in FSM are finalized |
| 2 | Kosrae: Integrated solid waste management is established |
| 3 | Pohnpei: Integrated solid waste management is established |
| 4 | Chuuk: Disposal site management is improved |
| 5 | Yap: Integrated solid waste management is established |

- Workshops were conducted to understand and discuss current issues of solid waste management as well as capacities of related organizations.
- Plans for improving existing disposal sites in Chuuk, and plans for constructing new landfills in Pohnpei and Yap were reviewed.
- The FSM Solid Management Experience Sharing Workshop was held in Kosrae from 15th to 17th November 2011, which was aiming to learn from each other's experience, especially from Kosrae where the state strategy has already been developed and its action plan has been implemented. After facilitating the workshop in Kosrae, Ms. Esther Richards, (Solid Waste Management Adviser of SPREP) visited Chuuk, Yap and Pohnpei to have a consultation with each state to assist them in developing their State Waste Plans.
- Final draft of 3R educational material for elementary school students in Kosrae was developed through a series of discussions among the counterpart organizations.

Expected Project Outputs

- | | |
|---|---|
| 1 | Follow-up of implementation of national 3R strategy |
| 2 | Training program on 3R is developed |

- The seminar on 3R was organized on the 3rd November 2011 in collaboration with the JICA's other projects such as "Promotion of Shibushi Model (Waste Minimization without Incineration) from Fiji to Pacific Island Countries" ("Shibushi city" is a local government in Japan famous for succeeding in 3Rs) and the JICA 3R Project.
- J-PRISM assisted Mr. Shalend P Singh, Senior Health Inspector of LCC in participating an academic conference in Japan called the Society of Solid Waste Management Experts in Asia and Pacific Islands (SWAPI), where he reported 3R activities in Lautoka.
- Ba Flooding Waste Management Pilot Project was conducted in collaboration with Ba Town Council (BTC) after the flooding event in Fiji in 2012. The pilot project looked at incorporating and implementing appropriate practices and measures to manage the flooding generated waste at Ba in an economical and environmental accepted manner.
- 1st JCC meeting was held on the 28th February 2012, together with the final JCC of the JICA 3R Project. The JICA 3R Project has brought successful 3R initiatives and practices in Lautoka and Nadi and also has developed National 3R policy. J-PRISM will take over those outcomes of the JICA 3R Project and expand the activities in other municipalities and the Pacific. In 2012, J-PRISM will target mainly Ba and Sigatoka to promote 3R activities through pilot projects in combination with seminars and workshops.

KIRIBATI



Expected Project Outputs

- | | |
|---|---|
| 1 | Household waste, especially organic waste is minimized through establishment and promotion of compost |
| 2 | Community awareness on solid waste is improve |

- Baseline Surveys, including the Public Opinion Survey in Tarawa Urban Council (TUC) and in Betio Town Council (BTC) and the Landfill Site Survey in Betio were conducted in October 2011 and February 2012 respectively. The results of the surveys shows that there is a reasonable demand for home composting in the area, a useful way for operating a new shredder which will be installed in Betio landfill was also found.
- The J-PRISM is trying to develop a simple method of home composting corresponding to weather and lifestyle in Kiribati through the Home Compost Trial since October 2011.
- 1st JCC meeting was held in February 2012. In J-PRISM Kiribati, collaboration with other projects such as NZ Urban Development Project and Home Garden Project by Taiwan Technical Mission are being carried out very effectively, therefore discussions and sharing information at the JCC were quite animated and fruitful.



Home Compost Trial at Teaoaraereke in collaboration with a Women group (left) and at BTC (right)

MARSHALL ISLANDS



Expected Project Outputs

- | | |
|---|---|
| 1 | NSWMS is implemented |
| 2 | Recycling system is improved in Majuro |
| 3 | Composting system is improved in Majuro |
| 4 | School-based recycle system is introduced in Majuro |
| 5 | Solid waste management system is improved in Ebeye |

- Follow-up with development of National Solid Waste Management Strategy and Action Plan has been continuously carried out by the J-PRISM Experts.
- Initial Survey on Solid Waste Management at Ebeye Island in Kwajalein Atoll was conducted in

October 2010.

- 1st JCC meeting was held in March 2012.



Kickoff meeting of J-PRISM RMI at Majuro

PALAU



Expected Project Outputs

- | | |
|---|---|
| 1 | Beverage container deposit fee program (sustainable financing system) is enhanced |
| 2 | Awareness raising on 3R is enhanced |
| 3 | Final landfill site is improved |
| 4 | Training program on 3R/recycling program is developed |

- Workshops were conducted to understand and discuss current issues of the Solid Waste Management as well as capacities of related organizations.
- J-PRISM is monitoring and following-up an implementation of the Beverage Container Deposit Program fully introduced from October 4, 2011.
- A proposal for extending waste disposal area towards higher ground at the M-Dock landfill site in Koror was reviewed.
- 1st JCC meetings was held in February 2012.



Capacity Assessment Workshop in Koror facilitated by JICA Expert

PAPUA NEW GUINEA



Expected Project Outputs

- | | |
|---|---|
| 1 | Solid waste disposal facility and operation is improved |
| 2 | Waste collection in Port Moresby is improved |
| 3 | Capacity of planning and monitoring of solid waste management in Port Moresby (NCDC) is increased |

- Waste Characterization Study and Time & Motion study were conducted in June-July 2011.

- Draft EIR was developed.
- Site investigation survey to be complete by the end of March 2012.
- 1 million Kina was approved from the national government for J-PRISM PNG in 2012 as the counterpart funding.
- The Training workshop on Work Adjustment for Recycling and Management Waste (WARM programme) for waste collectors was conducted in June 2011 in collaboration with the International Labour Organization (ILO).
- 1st JCC meetings were held in November 2011.



Waste Characterization Study (Left) and Time & Motion Study (Right)

SAMOA



<i>Expected Project Outputs</i>	
1	Waste minimization is practiced in urban area
2	Landfill management capacity at Tafaigata and Vaiaata is increased
3	Training program on semi-aerobic landfill management is developed

- Solid Waste Characterization and Generation Studies for both household and commercial waste were conducted in December 2011. The study focusing on the commercial area was the first experience for Samoa.
- National Solid Waste Technical Expert Committee was organized to assist the Ministry of Natural Resources and Environment on a National Level in an advisory capacity on implementation of Samoa's National Solid Waste Management Strategy and other relevant initiatives related to areas such as waste reduction, reuse, recycling, collection and disposal, education and awareness, capacity building, sustainable financing, and policy development.
- Regular leachate monitoring at Tafaigata Waste Landfill which had been idle for more than a year has been resumed in October 2011.
- A workshop was conducted from 29 February to 2 March 2012 for 100 selected households as an inception of the Waste Minimization Pilot Project. The workshop consolidated the partnership between MNRE, participants, Pacific Recycle Company and Women In Business Development Inc. in regards to technical assistance to drive this

pilot project to a success.

SOLOMON ISLANDS



<i>Expected Project Outputs</i>	
1	3R activities are practiced in Honiara and Gizo
2	Waste disposal system is improved in Honiara and Gizo
3	Lessons and experiences learnt are disseminated in Solomon Islands

- Time and motion study training was conducted on August 2011. Lengakiki collection zone was chosen for the training. A number of issues have been identified from this study and from this study these issues could be addressed. The training provides knowledge and skills for future full-scale time and motion study which is proposed to be undertaken in 2012.
- A waste audit was conducted in Honiara by Environmental Health Division (EHD) staff of Honiara City Council (HCC) from 8th -24th of August 2011.
- A communication strategy "Waste Management Communication Strategy for 3Rs" was drafted and it is now going through the process of finalization.
- Initial EIA studies and Topographic surveys for rehabilitation of the existing dumpsite were conducted in both Honiara and Gizo.
- Demonstration of installing a gas vent facility was done in Honiara in November 2011.
- Dispatch of country attachment trainee for landfill operator to Vanuatu in December 2011 (please refer to the Regional Activities Update).
- 1st JCC meeting was held in February 2012.



Topographic Survey at Gizo Dumpsite (Left) and Demonstration of installing Gas Vent Facility at Ranadi Dumpsite in Honiara (Right)

TONGA



<i>Expected Project Outputs</i>	
1	The existing solid waste disposal facility and operation in Vava'u is improved
2	Solid waste collection service in Vava'u is improved

3 | Framework and long-term solid waste management in Vava'u is established

- A series of Waste Surveys (Waste Amount and Composition Survey, Final Disposal Amount Survey, Public Opinion Survey and Survey on recycling activity) was conducted for understanding current issues of the Solid Waste Management and then workshops were held to share results of the surveys with stakeholders .
- Solid Waste Management Plan for Vava'u was drafted though consultation with related organizations and the Technical Steering Committee meeting. The workshop for discussion was also held in January 2012. The plan is expected to be finalized in the latter half of 2012.
- Topographic survey for developing a rehabilitation plan for the existing Karaka dump site was conducted in December 2011.
- 1st JCC meeting was held in October 2011.



Waste Amount & Composition Survey (Left) and Workshop on Solid Waste Management Plan for Vava'u (Right)

Port Vila Municipality conducted the house-hold waste characterization in November. Total number of house-holds surveyed was 50. Business waste audit is on plan to be undertaken in early 2012.

- Time and Motion Study Training was conducted in July 2011. Full scale studies are expected to be undertaken in 2012.
- National Waste Management Strategy was finalized and endorsed.
- A draft National Waste Minimization Strategy is being developed in consultation with stakeholders. In the Strategy, public campaigns, environmental education, 3Rs (reduce, reuse and recycle) such as home composting, market waste composting, recycling of scrap metals, cans, PET bottles etc. are being considered.
- Regional training on landfill operation/management and Country attachment program at Bouffa landfill were conducted (please refer to the Regional Activities Update).
- Collection and recycling of aluminum cans started in cooperation with a private recycling company, Recycle Corp.
- Pilot compost program for organic waste commenced in October 2011. Three sample households were selected for experimental results on household organic wastes. Two plastic buckets were placed in these three sample households.
- 1st JCC meeting was held in February 2012.

TUVALU



Expected Project Outputs

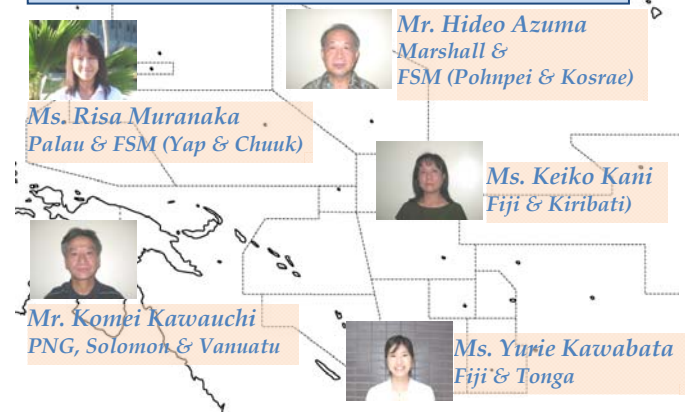
1 | Capacity of operators and field worker is increased through training

- Official MOU (Record of Discussions) was signed between the authorities concerned of the Government of Tuvalu and JICA in May 2011 to start J-PRISM in Tuvalu.
- No activities for the moment.



Visit to a private recycle company for discussion (Left) and Pilot compost for organic waste (Right)

JICA Experts in JFY 2011



VANUATU



Expected Project Outputs

1 | Waste disposal amounts in the urban and peri-urban areas are reduced through minimization mechanisms
 2 | Existing waste disposal sites (Bouffa and Luganville) are improved
 3 | Capacities for waste management at the national and local government level are enhanced

- In-Country training on Waste Characterization was conducted in May 2011 in Port Vila, and then



Plan for Japanese Fiscal Year 2012 (April 2012-March 2013)

Following are the main regional activities to be planned in JFY 2012. Detailed Activities in each country are supposed to be implemented basically according to each country's PO (Plan of Operation) which has been agreed officially on the occasion of the JCC.

	Activity/Event	Country
May 2012	Eco-Island Symposium 2012 (Side-event for the "Sixth Pacific Island Leaders Meeting (PALM6)) in Japan (Okinawa)	Fiji, Tonga, Samoa and Federated States of Micronesia are to be invited
June	Start dispatching of Japanese Experts to each country	All countries
July	Training of Trainers on Work Adjustment for Recycling and Managing Waste (WARM) in Fiji in collaboration with ILO	Several countries in the region are to be invited
July - September	Training Program in Japan (Kitakyushu) on Waste Management Technique	Fiji, Marshall Islands, Nauru, Papua New Guinea, Samoa, Tonga, Tuvalu, and Vanuatu
August	Training Program in Japan on the JICA Partnership Program Project for "Promotion of Shibushi Model (Waste Minimization without Incineration) from the Republic of the Fiji Islands to Pacific Island Countries"	Fiji, Federated States of Micronesia, Solomon Islands, and Vanuatu
September	2 nd Steering Committee Meeting in Noumea, New Caledonia	All countries
November	Regional Training on Waste Minimization at Fiji	Several countries in the region are to be invited
<i>undecided</i>	Training Program in Japan (Kobe) Solid Waste Management	Several countries in the region are to be invited
<i>undecided</i>	Regional Training on Landfill Management	Several countries in the region are to be invited

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J-PRISM FLASH

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✚ We welcome any comments and questions on J-PRISM FLASH for making contribution toward the betterment of the articles and the project itself. Please do not to hesitate to contact with the Project Office.

✚ Next J-PRISM FLASH will be issued in October 2012. J-PRISM FLASH is going to be archived on the J-PRISM website at <http://www.sprep.org/Projects/jicasprep-regional-solid-waste-management-j-prism> in the near future.