

### Bureau of Public Works Ministry of Public Infrastructure, Industries and Commerce

## Republic of Palau





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### Laws & Regulations

RPPL 7-24 "Establishing a Recycling Program

(Effective Date: October 22, 2006)

Beverage Container Recycling Regulation

(Effective Date: August 14, 2009)

MOU between Ministry of Public Infrastructure, Industries and Commerce,
 Ministry of Finance and Koror State Government (Initial Redemption Center)

(Effective Date: October 14, 2011)

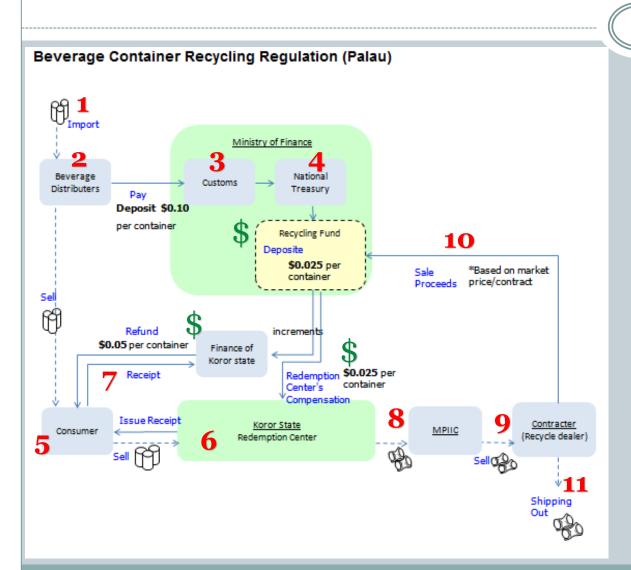
 Contract between Palau National Government and Palau Waste Company (Export)

(Effective Date: July 18, 2012)

• Contract between Palau National Government and Belau Garbage & Scrap Co. (2<sup>nd</sup> Redemption Center)

(Effective Date: November 10, 2016)

## Outline of the program



- Received Imported Deposit Beverage Containers
- 2. Beverage Distributers will pay *Deposit \$0.10*/container to Customs and also sell beverage to consumer
- 3. Customs will submit payments to National Treasury (MOF)
- 4. National Treasury will distribute the *Deposit \$0.10* to Deposite, Redemption Center's Compensation, and Refund
  - \$0.025/imported container Recycling Fund
    \$0.025/redeemed container Redemption Center
    \$0.05/container Refund (Redemption Center)
- 5. Consumer will sell DBC to Redemption Center
- 6. Redemption Center will issue receipt to Consumer
- 7. Consumer then bring the receipt to Redemption Center to claim Refund
- 8. Redemption Center will compact/prepare DBC for pick up
- 9. MPIIC will sell compacted DBC to contractor
- 10. Contractor will pay to National Treasury
- 11. Last the Contractor will then ship out DBC out of Palau

## Challenges Faced

#### RPPL No. 7-24: Passed in October 2006.

- \* And it took five (5) years to start implementation.
- \* Many agencies involved did not have the capacity to implement the program such as, SWM-National, SWM-KSG, Customs Office.
- \* And review and approval of regulations by the leadership took longer than expected.
- How to deal with tetra-packs and army-packs.
  - \* Did not know how to recycle them. Did not want to redeem them. However, these items fall under the definition of deposit beverage container so the fee applies.
- Accuracy of counts at the Redemption Center
  - \* Manual counting of containers were inaccurate sometimes.
- Old containers eating up the fund.
  - \* People were saving their containers until the opening of the redemption center.
- Monitoring System
  - \* Poor information sharing between MOF and MPIIC

# Exporting

#### Partnership with Local Recycling Companies

- MPIIC decided to contract out the exporting of redeemed containers to a private recycling companies for the following reasons:
  - Recycling companies already exist in Palau
  - Experience in exporting recyclable materials
  - Have the capacity in terms of tools, equipments, facilities and personnel.
  - Most importantly, this program should support private companies and promote the 3R concept.

#### The Contractor

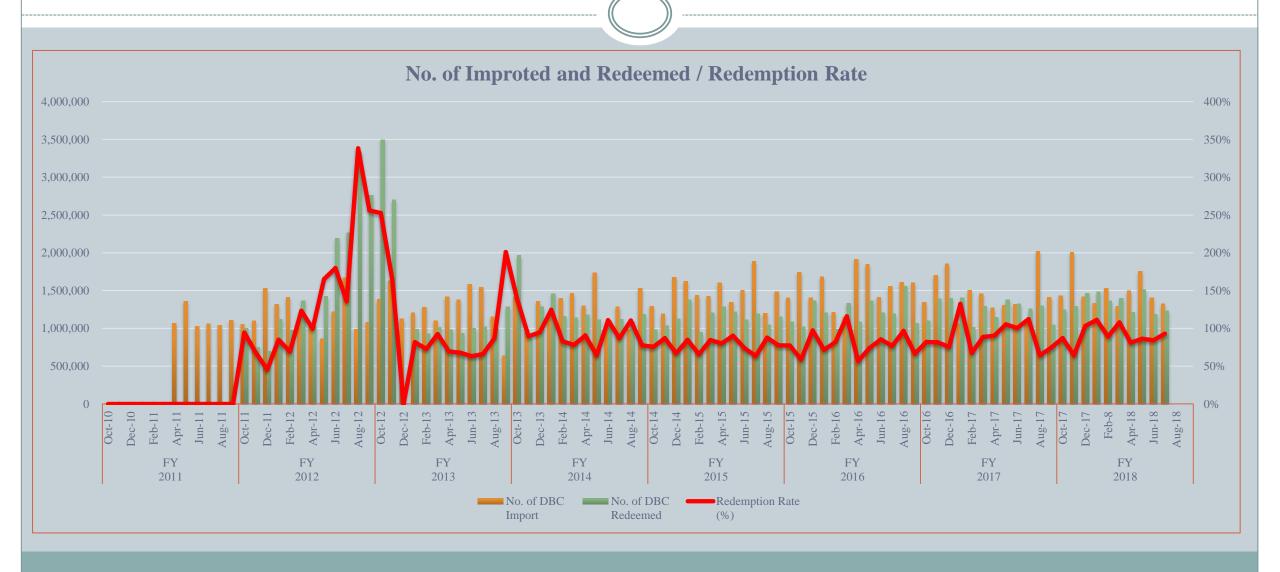
- The Contractor shall perform the following services:
  - Buy redeemed containers from the National Government.
  - Be responsible for picking up compressed redeemed containers from the Redemption Center at their own expense.
  - Ship out of Palau compressed redeemed containers (aluminum, plastics, and metals) within six (6) months after pick up from Redemption Center at its own expense.

### **Current Situation**

### **Redemption Rate**

FY	No. of DBC Import (A)	No. of DBC <b>Redeemed</b> (B)	Redemption Rate (%)
2011	6,663,590	0	0.00%
2012	14,386,027	18,925,157	131.55%
2013	15,459,266	15,369,174	99.42%
2014	15,618,616	14,678,332	93.98%
Total (2011-2014)	52,127,499	48,972,663	93.95%
2015	17,687,328	13,694,907	77.43%
2016	18,554,552	14,491,490	78.10%
2017	17,379,362	15,067,830	86.70%
2018	15,003,974	13,398,086	89.30%
Grand Total (2011-2018)	120,752,715	105,624,976	87.47%

### Monthly/yearly data of import, redeemed/redemption rate



### **Amount of Export**

### **◆** Total Weight(kg) of Export

FY	Aluminum	Metals	PET Bottles
2011	-	1	-
2012	125,562.60	8,020.80	66,660.50
2013	108,097.82	12,159.80	88,370.94
2014	126,667.00	13,305.50	89,636.50
Total (2011-2014)	360,327.42	33,486.10	244,667.94
2015	114,067.00	12,629.00	83,128.50
2016	120,857.50	11,288.00	91,923.00
2017	122,008.80	7,457.30	103,004.40
2018	110,248.40	13,206.00	93,961.40
Grand Total (2011-2018)	827,509.12	78,066.40	616,685.24

# Summary of the DBC Fund

FY	No. of Imports	DBC Fee	Recycling Fund	Compensation	Refund
2011	6,663,590	\$ 666,359.00	\$ 166,589.75	-	-
2012	14,386,027	\$ 1,438,602.70	\$ 359,650.68	\$ 473,128.93	\$ 946,257.85
2013	15,459,266	\$ 1,545,926.60	\$ 386,481.65	\$ 384,229.35	\$ 768,458.70
2014	15,618,616	\$1,561,861.60	\$ 390,465.40	\$366,958.30	\$ 733,916.60
2015	17,687,328	\$1,768,732.80	\$442,183.20	\$342,372.68	\$684,745.35
2016	18,554,552	\$1,855,455.20	\$463,863.80	\$362,287.25	\$724,574.50
2017	17,379,362	\$1,737,936.20	\$434,484.05	\$376,695.75	\$753,391.50
2018	15,003,974	\$1,500,397.40	\$375,099.35	\$334,952.15	\$669,904.30
<b>Grand Total</b>	120,752,715	\$12,075,271.50	\$3,018,817.88	\$2,640,624.40	\$5,281,248.80

# Accomplishments through the Recycling Fund

FY 2012 ~ Procured Used Bulldozer (\$70,000.00)

FY 2014 ~ Design/Build of the M-Dock Landfill 1st Extension Project (\$383,336.18)

~ M-Dock Landfill Leachate Catchment Basin Project (\$74,850.00)

~ Procured Flatbed Truck (\$8,195.00)

~ Hired 2 Employees (Office Administration & Coordinator)

FY 2015 ~ Procured Office car (Van(\$9,595.00)), Excavator(\$121,000.00), Shredder Unit(\$166,200.00)

~ Design/Build M-Dock Tire Shredding Facility (\$169,000.00)

~ Hired 3 Employees (Landfill Worker)

~ DSWM Operation Cost - fully funded by the Recycling Fund

FY 2016 ~ Hired 1 Employee (Asst. Educator)

FY 2017 ~ Procured New Bulldozer(\$109,500), New 5T Dump Truck(\$61,800.00)

~ Design/Build of the M-Dock Landfill 2nd Extension Project(\$800,000.00)

~ Hired 1 Employee (Landfill Worker)

~ Tire Shredding operation begins

~ In March 2017, DSWM operation cost and salaries - fully funded by the Recycling Fund

FY 2018 ~ Awarded a contract for M-Dock Landfill Ground Maintenance to a private company (October 2017)







Sulang!

Thank You!

Vinaka!

