

REBATE PROGRAM SUMMARY		December-2014	2014 YTD	1997 - Present
<b>I Application Summary</b>				
A.	Applications Received	453	2905	18745
B.	Applications Approved	402	2377	14711
C.	Single Family Applications	424	2660	16835
D.	Multi-Family Applications	16	113	942
E.	Non-Residential Applications	13	132	213
<b>II Types of Fixtures Rebated</b>				
		<b>Quantity</b>	<b>Paid</b>	<b>Estimated Savings</b>
A.	SFD HET	52	8,988.67	2,170896
B.	SFD ULF to HET	99	4,950.00	0.990000
C.	UHET	11	2,477.13	0.110000
D.	SFD HE DW	51	6,125.00	0.153000
E.	SFD HEW 5.0 or less Water Factor	152	75,598.23	2.447200
F.	Instant Access Hot Water Systems	7	1,328.10	
G.	On Demand Hot Water-Point of Source	1	100.00	
H.	Cisterns	12	15,577.50	
I.	Smart Controllers	0	0.00	
J.	Residential Zero Water Using Urinals	0	0.00	
K.	Residential Soil Sensors	0	0.00	
L.	Graywater System	2	200.00	
M.	Lawn Removal & Replacement	9	12,371.00	1.014422
N.	Rotating Sprinkler Nozzles	0	0.00	
O.	MFD HET	7	1,055.88	0.292236
P.	MFD ULF to HET	6	300.00	0.060000
Q.	MFD UHET	0	0.00	0.000000
R.	MFD HE DW	0	0.00	0.000000
S.	MFD HEW 5.0 or less Water Factor	6	3,000.00	0.096600
T.	MFD Common Laundry	0	0.00	0.000000
U.	Non-Residential - HET	0	0.00	0.000000
V.	Non-Residential - ULF to HET	61	3,050.00	0.610000
W.	Non-Residential - UHET	0	0.00	0.000000
X.	Non-Residential HE Dishwasher	0	0.00	0.000000
Y.	Non-Residential HEW-Residential Grade 5.0 or less	3	1,500.00	0.048300
Z.	Non-Residential HEW-Commercial Grade 5.0 or less	0	0.00	0.000000
AA.	Non-Residential Zero Water Using Urinals	0	0.00	0.000000
BB.	Non-Residential High Efficiency Urinals	0	0.00	0.000000
CC.	Non-Residential Pint Urinals	20	4,921.36	0.400000
DD.	Non-Residential Ice Machines	0	0.00	0.000000
III	Rebate Refund			23
IV	Total Dollars Rebated		\$141,542.87	\$1,259,250.70
V	Estimated Water Savings in Acre-Feet Annually*		8.392654	75.882
				454.064

\* Retrofit savings are estimated at 0.041748 AF/HET; 0.01 AF/UHET; 0.01 AF/ULF to HET; 0.003 AF/dishwasher, 0.0161 AF/residential washer; 0.116618 AF/commercial washer; 0.0082 AF/100 square feet of lawn removal.

Rebate ended 12/31/2009	SFD	MFD	COM	Total
ULF toilets	4953	1902	716	7571
28-gallon WM	60	2	0	62

Caw Courtesy-Paid	Paid	AF Savings
January 2014	\$3,501.50	0.18700
February 2014	\$966.00	0.14134
March 2014	\$1,750.00	0.10000
April 2014	\$2,675.00	0.18090
May 2014	\$500.00	0.01610
June 2014	\$1,900.00	0.08995
July 2014	\$2,932.49	0.21829
August 2014	\$3,350.00	0.16425
September 2014	\$1,000.00	0.03220
October 2014	\$828.18	0.10000
November 2014	\$848.00	0.17699
December 2014	\$3,125.50	0.16350
Total	\$23,376.67	1.57052

MPWMD Paid	Paid	AF Savings
January 2014	\$1,500.00	0.048300
February 2014	\$100.00	0.020000
March 2014	\$150.00	0.030000
April 2014	\$900.00	0.052100
May 2014	\$500.00	0.016100
June 2014	\$1,500.00	0.048300
July 2014	\$350.00	0.071748
August 2014	\$1,100.00	0.05220
September 2014	\$1,316.50	0.11870
October 2014	\$1,414.00	0.12744
November 2014	\$0.00	0.00000
December 2014	\$1,515.70	0.05220
Total	\$10,346.20	0.637088

2014 YTD		2012-Nov/Dec	2013-Jan/Dec	Total to Date
CAW	1,259,250.70	27,435.43	891,881.66	2,178,567.79
CAW Courtesy	23,376.67	625.00	21,669.21	45,670.88
	1,282,627.37	28,060.43	913,550.87	2,224,238.67

December 2014	
CAW	141,542.87
CAW Courtesy	3,125.50
MPWMD	1,515.70
	146,184.07

2014 YTD		2012-Nov/Dec	2013-Jan/Dec	Total to Date
MPWMD	10,346.20	0.00	9,011.88	19,358.08

Supplemental 2014 YTD	
Ecology Action-September	2,920.00
Ecology Action-October	2,000.00
Ecology Action-November	830.00
Ecology Action-December	500.00

6,250.00

Submitted by staff  
Item 2

REBATE PROGRAM BUDGET 2015-2017 -- Updated 3/1/13

Item	CY 2015	CY 2016	CY 2017	BMP	Amount of Rebate	Life of Retrofit	Annual Savings Per Retrofit	2015 Single Year Savings in AF (1 Yr) based on 2015 projected participation	2016 Single Year Savings (1 Yr) based on 2013 projected participation	2017 Single Year Savings in AF (1 Yr) based on 2014 projected participation	Projected GRC Savings (3 year) in AF	Life Savings of all retrofits by item in AF	Cost/AF	
High Efficiency Dishwasher	2,500.00	2,500.00	2,500.00	3, 4	125.00	9.00	0.005							
High Efficiency Toilets (HET)	60,000.00	60,000.00	60,000.00	3, 4	200.00	25.00	0.030	9.1410	9.1410	9.1410	55	686	262.55	Plan for 300 HET per year
Flapper Replacement	4,500.00	4,500.00	4,500.00	3, 4	15.00	5.00								Provide 300 per year. Reduce leaks
ULF to HET	15,000.00	15,000.00	15,000.00	3, 4	50.00	25.00	0.002	0.4800	0.4800	0.4800	3	36	1,250.00	Plan for 300 ULF to HET
Residential High Efficiency Clothes Washer (HECW)	350,000.00	175,000.00	35,000.00	3, 4	350.00	10.00	0.024	24.0800	12.0400	2.4080	99	385	1,453.49	Plan for 1,000 HECW in 2015, 500 in 2016 and 100 in 2017. CII retrofit requirement by 2013. <b>Reduce rebate to \$350 during Year 2.</b>
Commercial High Efficiency Clothes Washer (HECW)					0.00	10.00	0.090				0			
CII HECW Ozone System	20,000.00	20,000.00	20,000.00	4	2,000.00	10.00	0.400	4.0000	4.0000	4.0000	24	40	1,500.00	Rebate replaces CII washer rebate. Estimate of 10 systems per year
IAHWs and on-demand systems	3,750.00	3,750.00	3,750.00	3, 4	150.00	10.00	0.005	0.1250	0.1250	0.1250	1	4	3,000.00	Reduce to \$150 per hot water system. Estimate 25 per year
Zero Water Urinals	4,500.00	4,500.00	4,500.00	4	150.00	15.00	0.020	0.5997	0.5997	0.5997	4	9	1,500.75	In appropriate settings. Estimate 30 per year
High Efficiency Urinals (0.5 gpf)	0.00	0.00	0.00	4	0.00	15.00	0.015							Required - NO REBATE after 2013
Pint Urinals	0.00	0.00	0.00	4	0.00	15.00	0.002							Eliminate rebate due to insufficient savings/cost per AF
Rainwater storage	127,500.00	127,500.00	127,500.00	5	6,375.00	20.00	0.080	1.6000	1.6000	1.6000	10	144	2,656.25	Maximum rebate is \$6,375 for 25,000 gallons (0.08 AF). Assume 20 per year
Smart Controllers	7,500.00	7,500.00	7,500.00	5	300.00	10.00		0.0000	0.0000	0.0000	0			\$100 for Up to 4 stations, Plus \$10/station up to 20 Goal: 20 Smart Controllers annually
Rain Sensors	0.00	0.00	0.00	5	0.00	10.00					0			REQUIRED NO REBATE Current Change of Title/New construction requirement. Recommend continuing direct install program for non-required sites
Soil Moisture Sensors	625.00	625.00	625.00	5	25.00	10.00					0			Goal: 25 per year. Savings not quantifiable: Varies by site.
Lawn Removal & Replacement with Drought Tolerant or Permeable	25,000.00	25,000.00	25,000.00	5	1.00	15.00	0.085	0.8500	0.8500	0.8500	5	38	1,960.78	Up to 2,500 sf -- DEED RESTRICTED for 15 years. Goal: 10 permanent removals of maximum square footage per year. Savings vary depending on amount of lawn above 2,500 sf removed.
X-Ray recirculation	12,500.00	12,500.00	12,500.00	4	2,500.00	10.00	2.378	11.8900	11.8900	11.8900	71	357	105.13	The average processor uses 788,400 gallons of water per year. With this recirculation system, reduction to 13,530 gallons per year, which lowers water and sewage costs. Goal: 5 per year
Cooling tower conductivity controller	5,000.00	5,000.00	5,000.00	4	1,000.00	5.00	1.032	5.1613	5.1613	5.1613	31	77	193.75	Split between pH controller and this. Goal: 5 per year

New ✓

pH/conductivity controllers	9,500.00	9,500.00	9,500.00	4	2,500.00	5.00	3.982	15.1299	15.1299	15.1299	91	227	125.58	To be added in 2010. Split between conductivity controller. Goal: 5 per year
Medical Equipment Steam sterilizer retrofit --	6,000.00	6,000.00	6,000.00	4	2,000.00	20.00	1.538	4.6140	4.6140	4.6140	28	277	65.02	Most steam sterilizers waste gallons of water by using continuous cold water to temper the steam condensate. The Steam Sterilizer retrofit (i.e. tempering device) monitors the drain temperature and applies cold water only when needed, resulting in tremendous water savings (at least 75%). In fact, the average savings with a Steam Sterilizer retrofit installed is approximately 45-50 gallons per hour per sterilizer (another estimate by MWD is 1-5 gpm) with a potential cost savings of \$2,500 per sterilizer per year. Goal: 3 per year
Steam oven (Combi)	7,500.00	7,500.00	7,500.00	4	2,500.00	12.00	0.400	1.2000	1.2000	1.2000	7	43	520.83	Estimated savings 0.4 AFA/10 yr = 4 AF. Misting oven. Max 15 gph (To be added in 2010). Goal: 5 per year
Boilerless/connectionless food steamers (per compartment)	7,500.00	7,500.00	7,500.00	4	1,500.00	10.00	0.250	1.2500	1.2500	1.2500	8	38	600.00	Based on data from a study done by the Food Service Technology Center, the connectionless steamers save an average of 81,500 gallons per year with an estimated 10-year life. Rebates are available for qualifying connectionless food steamers, with more than ten manufacturers offering water-efficient models. REBATE is per steam compartment (to be added in 2010). Goal: 5 per year
Water Efficient Ice Machine	0.00	0.00	0.00		0.00	10.00	0.835							Required for Visitor Serving in 2013
Dry vacuum pumps - Retrofit or new construction per REBATE per 0.5 HP to 4 HP	6,000.00	6,000.00	6,000.00	4	200.00	7.00	0.640	19.2000	19.2000	19.2000	115	403	44.64	Liquid ring vacuum pumps use large quantities of water as a liquid seal to create the vacuum. Dry vacuum pumps create vacuum and avoid the use of water as a sealant by using parts which are machined with extremely close tolerances. REBATE: \$200 per 0.5 hp up to 5 hp. Goal: 10 per year
nozzles	4,000.00	4,000.00	4,000.00	5	4.00			0.0000	0.0000	0.0000	0	0		Goal: 1000 per year
Waterless Wok	10,000.00	10,000.00	10,000.00	4	5,000.00	10.00	1.600	3.2000	3.2000	3.2000	19	96	312.50	Savings of up to 1.6 AFA. Goal: 2 per year
3-Way valves	500.00	500.00	500.00	5	25.00	10.00								Graywater valve. Cost approximately \$50. Goal: 10 per year
Water Broom	300.00	300.00	300.00	4	150.00	5.00	0.153	0.3068	0.3068	0.3068	2	5	195.57	Goal: 2 per year
Commercial Dishwasher - Med Size Food Service	5,000.00	5,000.00	5,000.00		2,500.00	20.00	0.200	0.4000	0.4000	0.4000	2	24	625.00	Water usage across commercial dishwasher classes does not appear to be directly related to the size of the machine and varies from 0.33 Gallons Per Rack
Commercial Dishwasher -- Large size food service	5,000.00	5,000.00	5,000.00		4,000.00	20.00	0.369	0.4613	0.4613	0.4613	3	28	542.01	Water usage across commercial dishwasher classes does not appear to be directly related to the size of the machine and varies from 0.33 Gallons Per Rack (GPR) to 20+ GPR (1.2 L to 75.7 L). A typical commercial dishwasher consumes approximately 4 GPR (15.1 L).

**Rebate Total** 699,675.00 524,675.00 384,675.00 102.8276 91.6489 82.0169 576 2,916  
**3-Year Total: \$1,609,025**