This presentation premiered at WaterSmart Innovations

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"Inter-Utility Nexus - Energy Savings Assistance Program"

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October 8, 2015



EMWD Overview

History of EMWD



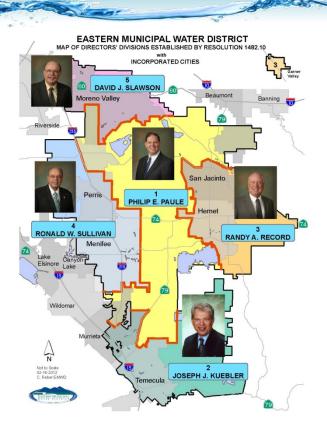
- Established in 1950
- Unique agency, serving:
 - Water / wastewater / recycled
 - Wholesale and retail
- One of 26 member agencies of The Metropolitan Water District of Southern California (MWD)
- One of more than 600 water purveyors in California



EMWD's Service Area



- 555 gross square miles
- Population: 785,000
- Moreno Valley to Temecula
- Seven cities and the unincorporated areas
- Five district-elected board members
- More than 600 employees
- Normally receive 11.0" to 12.6" of rain per year



EMWD Services



- Potable (drinking water)
 - Approx. 142,000 accounts
 - 2 water filtration plants
 - 2 desalters
- Wastewater (sewer)
 - Approx. 237,000 accounts
 - 4 regional reclamation facilities
 - Capacity: 70 million gallons/day (MGD)
- Recycled water: Approx. 300 accounts
- Agricultural/Irrigation: Approx. 130 accounts



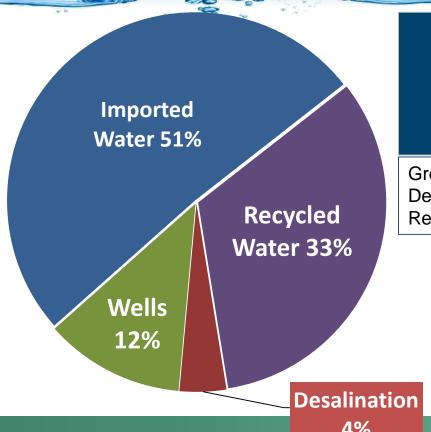


EMWD Water Supply Portfolio (FYE 2014)



Imported Water Supply from MWD: 76,897 AF 51%

State Water Project Colorado River Aqueduct



Local Water Supply: 74,884 AF 49%

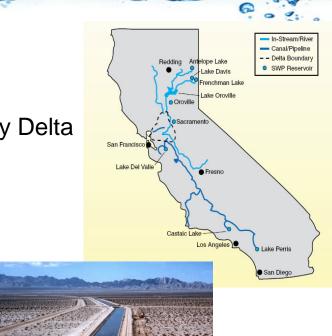
Groundwater Wells Desalination **Recycled Water**

4%

Imported Water Supply



- State Water Project
 - Begins in Sierras
 - Flows through the Sacramento-San Joaquin Bay Delta
 - Includes 21 dams, 700 miles of pipeline/canals
- Colorado River Aqueduct
 - Dependent on rain/snow in a 7-state region
 - 242 miles of canals/tunnels
 - Begins at Lake Havasu
 - Ends at Lake Mathews



Local Water Supply



- Groundwater
 - 33 wells (21 domestic, 12 desalter)
 - Perris-Menifee Desalters
 - Allows EMWD to treat brackish (salty) groundwater supplies
 - Funding partners include U.S. Bureau of Reclamation,
 Metropolitan Water District High-quality supply in San Jacinto Valley
- Recycled Water
 - EMWD is a national leader in recycled water usage
 - 2014: Reached 100 percent beneficial reuse







Utility Partnering Programs











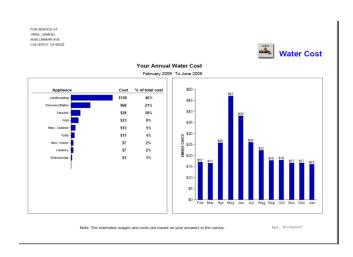
Home Energy Efficiency Survey Program (HEES)

Home Energy Efficiency Survey Program



Survey sent to customer with a report to:

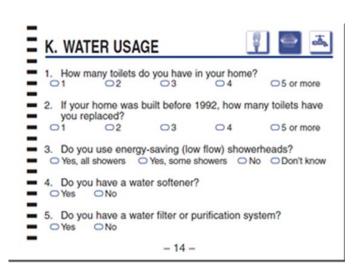
- 1. Understand how much gas, electricity and water you use annually.
- 2. Pinpoint household appliances and equipment likely to be using the most energy and water in your home.
- 3. Learn cost-saving and conservation tips to help manage your energy and water usage.
- 4. Explore potential rebates and incentives.



Indoor Sample Questions



- Number of people in the home?
- Water Softener or Purification system?
- Low flow showerheads?
- What type of water heater? Tankless?
- Clotheswasher type?
- Instantaneous water heater at fixture?
- Leaks at sinks or tub diverter?
- Do you let the faucet run when you brush your teeth?



Outdoor Sample Questions



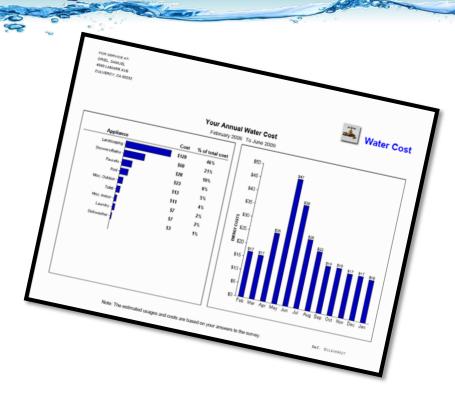
- Spa or Pool? Cover?
- Do you wash your car at home?
- Do you use a hose nozzle shut-off device?
- Leaks Hose Spigot, Irrigation Valve?
- Do you have a lawn that you water regularly?
- What percentage of your yard is lawn?
- How often do you water your lawn?
- Do you hose down your driveway or sidewalk? How often?

		_					
6.	How many of the faucets in your home have "water-saving" aerators?						
		ÁII					
7.	Do any of the following fixtures have leaks?						
	,	Yes	No				
	Bathroom faucets						
	Tub diverter	0	0				
	Showerhead	0	0				
	Toilet		0				
	Kitchen faucet	0	0				
	Outside hose faucet		0				
	Irrigation valve		0				
8.	Do you let the water faucet run when you:						
		Never	Sometimes	Always			
	Brush your teeth						
	Wash your face or hands	0	0	0			
	Clean dishes	0	0	0			
	Prepare food	0	0	0			
	'						
	How often do you hose off sidewalks or driveways?						
0	Never Rarely	□ We	eekly 🗆 Mo	nthly			
10. How often do you wash your cars at home?							
		□ We		nthly			
11	Do you uso water shut-	off hose	nozzlos on tho	and of your			
11. Do you use water shut-off hose nozzles on the end of your water hoses?							
0	Yes O No						
			- 8	atilia. T			
L.	LAWN & GARDE	N	¥	end of your			
1.	Do you have a lawn that	vou wa	ter regularly?				
	✓ Yes ✓ No(Skip to Lawn & Garden question 5.)						
2.	. What percentage of your yard is lawn?						
	(Please consider only the area that you typically water.)						
	25% 🗆 75%						
0	50% 🗆 100%						
3	Which system do you us	en to wa	tor your lawn?				
	In-ground sprinkler system						
 In-ground sprinkler system with manual control 							

Participants Receive



- FREE Personalized Report
 - Annual Electricity cost broken down by categories
 - Annual Natural Gas cost broken down by categories
 - Annual water cost broken down by categories
 - Tips to improve efficiency
 - Available Rebates



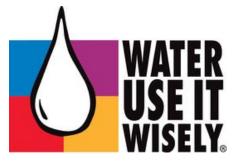
Free Energy Saver Kit



Plus for participating, customers will receive a FREE Energy Saver Kit that includes:

- Faucet Aerator Set (2 Bath & 1 Kitchen)
- Low Flow Showerhead
- Furnace Filter Whistle
- Hot Water Gauge
- LED Night Light





Benefits



- Free program However partnering on devices for the kit is desirable
- Target customers for specific rebates & programs
- Demographic Data
- Customize Rebates and Conservation Tips in final report
- No program management
- Network with energy partners



Low Income Energy Efficiency Program (LIEE)

Low Income Energy Efficiency Program (LIEE)



Through the Southern California Gas Company (SoCalGas), income-qualified customers are eligible for a number of appliance upgrades or energy-saving services.

In April of 2010, Eastern Municipal Water District (EMWD) applied and received a WaterSmart Grant from the United States Bureau of Reclamation in order to partner with SoCalGas and Metropolitan Water District of Southern California (MWD) to provide and install 1,700 High Efficiency Clotheswashers under the LIEE program.

Cost of Program



\$1.24 M Project – Estimated Lifetime water savings 809 AF

USBR	\$300,000
MWD	\$145,000
SoCalGas	\$620,000
EMWD	\$175,000

155,239 KWH – estimated energy saved



Agency Responsibilities



- SoCalGas
 - Managed the Program
 - Provided applications
 - Verified customer eligibility
 - Provided washers and installers
 - Invoiced EMWD
 - Advertising
- EMWD
 - Verify EMWD customer
 - Process invoice to MWD
 - Process USBR Reporting and Invoicing



Continuation of program - modifications



- Extended program with SoCalGas through June 2015.
 - EMWD provided funding for high efficiency clotheswashers (\$65), showerheads (\$10) and bathroom aerators (\$1).
 - Passed through MWD's clotheswasher rebate of \$85/washer.
 - June 2014 contract amendment to fund showerheads at \$6 from previous \$10.
- From December 2010 to June 2015

Number of Devices and Savings to date



December 2010 - June 2015

Devices Installed	Number of Devices	Lifetime Savings	
High Efficiency Clotheswashers	2,597		
Low Flow Showerheads	5,184	1230 AF	
Bathroom Aerators	3,555		

Possible Next program?



10/10/10 Behavioral Pilot Project

This program would target the Multi-Family Sector to encourage them to save:

- 10% Water
- 10% Natural Gas
- 10% Electricity



Questions?

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