Water/Energy Relationship at SDG&E







SDG&E Business Overview

- 4,100 square miles in San Diego and southern Orange counties
- Serving 3.5 million electric and gas consumers
- 1.4 million electric and 850,000 natural gas meters
- 5,000 employees







SDG&E's History w/San Diego County Water Authority

- SDG&E has a twenty plus year relationship with SDCWA
- Through our decades-long Partnership some of our achievements include:
 - Distributed over half a million low-flow showerheads
 - Assisted small businesses w/water equip installations, at low or no-cost
 - Made high-efficiency washers affordable for customers through our joint rebate program
- Established a formal Institutional Partnership with SDCWA in 2006 which established co-rebates for residential & commercial high efficiency washing machines





More History - Pilots

- SDG&E filed an application with the CPUC on 1/16/07
- Pilots began July 2008 and ran through December 2009
- Each IOU partnered with local water agencies to fund and manage the Water Pilots
- All IOUs developed different pilots residential, commercial, low income - to measure the indirect energy savings and water savings in different ways
- SDG&E developed three water/energy pilots
 - Managed Landscape
 - Water/Energy Audits
 - Recycled Water





SDG&E EE Programs 2013-2014

- In 2013-2014 SDG&E:
 - Promote energy and water savings equipment by offering rebates, incentives on custom projects and agricultural pump testing
 - Leverage SDG&E's financing offerings where applicable
 - Implemente a leak loss detection and pressure management service in partnership with SDCWA.
 - Explore incorporating water efficiency into our IDSM audit process
 - Initiate planning efforts with our LGPs to develop comprehensive water efficiency programs for the 2015 and beyond.
 - Work with local agencies to implement water energy savings measures at SDG&E's facilities





What is the Water Authority?

- Wholesale water agency created by State Legislature in 1944
 - 24 member agencies
 - 36-member board of directors
 - Serves 3.1 million people and region's
 \$188 billion economy
- Mission is to provide safe and reliable water supply to member agencies
- Service area
 - 950,000 acres
 - 97% of county's population







Sources of San Diego County's Water Supply



Increasing San Diego County's Water Supply Reliability through Supply Diversification



Partnership Benefits and History

- Water efficiency programs reduce energy use
- Embedded energy saved through less transporting and heating of water
- Implemented numerous programs through partnership





Showerhead Distributions

- Implemented in early 1990s



- Distributed more than 500,000 low-flow showerheads
- Distributed through community events, home water use surveys, etc.





- Implemented in mid-2000s
- Installed in more than 300 restaurants
- Water Authority facilitated a financial incentive
- SDG&E performed the installations





- High-Efficiency Clothes Washer Rebates (HEWs)
 - Installed more than 100,000 residential HEWs since 1994
 - Installed more than 9,100 commercial HEWs
- Energy Efficiency Assessments for Water Agencies
 - Implemented in 2010
 - Offered energy efficiency assessments to Water Authority and member agencies
 - Assessments performed on 103 water agency facilities





San Diego County Water Authority



- Home Energy and Water Savings Kits Distribution
 - SDG&E provides free energy and water savings kits
 - Includes showerhead and aerators
 - Water Authority and member agencies distribute
- Marketing
 - Cross-market water and energy efficiency programs
 - Includes messaging on websites and distribution of program marketing materials









- Water-Energy Pilot Program
 - Implemented in 2008
 - Evaluated embedded energy use in three programs
 - Comprehensive water/energy audits
 - Managed landscape program
 - Retrofits of sites from potable water to recycled water











- WaterSmart Landscape Efficiency Program
 - Targets reduction in water use at sites with multiple acres of irrigated landscape
 - Achieves water savings through
 - Pre-implementation audit of site's irrigation system
 - Services provided by a water management service company







- Leak Loss Detection Program
 - Provides top-down water audits of retail water agency distribution systems
 - No cost to water agencies
 - Performed by a third-party contactor
 - Identifies opportunities to implement pressure management measures







- Detention Facility Retrofits Program
 - Saves water and embedded energy through the installation of water-efficient devices
 - Modeled after previous pilot program with savings of 300+ acre-feet per year
 - County of San Diego will provide financial and in-kind services







- Other activities include
 - Continue to cross-promote SDG&E's programs
 - Distribution of energy and water savings kits
 - Host events/workshops at SDG&E's Energy Innovation Center





Questions?





Contact



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