REDDING ELECTRIC UTILITY

SHIFTING PERSPECTIVES:

Guiding the Future of Customer Programs

Demand-Side Management



INTEGRATED RESOURCE PLAN

Step #1 **Develop Guiding Principles**



Step #2

Identify Key Assumptions and Cost-Effectiveness Tests

- ➢ RIM − Utility lifecycle net revenue impacts
- PCT Measure benefits to a customer over the lifecycle of a measure
- > CIT Ratio of lifecycle rate impacts to the lifecycle GHG emissions reduction to a measure

ΡΙΛΛ

CIT, \$/MT

TEST COMPONENT	РСТ, \$	UCT, \$	RIM, \$	TRC, \$	GHG
GHG Emissions Reduction					Х
Electric Energy and Capacity Avoided Costs		Х	X	Х	Х
Other Fuel Savings (natural gas, fuel oil, propane, etc.)				Х	
Non-Energy Benefits (e.g., water, O&M costs, etc.)				Х	
Environmental and Health Benefits					
Incremental Costs for Measure and Installation	Х			Х	
Program Administrator Overhead Costs		Х	Х	Х	Х
Incentive Payments Paid by Utility	Х	Х	Х		Х
Customer Bill Impact	Х				
Utility Revenue Impact			Х		Х



Demand-Side Management INTEGRATED RESOURCE PLAN

RESULTS

Step #3	Step #4			
Characterize DSM Program	Perform Analysis to Identify			
Measures	Preferred Portfolio			

Program (FY19)	Program Cost	Lifecycle Net Revenue Impacts	Lifecycle Carbon Savings, Tons	PCT	RIM	CIT, \$/Ton
Energy Efficiency Rebates	\$950,000	(\$3,590,000)	8,300	\$4,090,000	(\$4,540,000)	(\$550)
Shade Trees	\$80,000	(\$110,000)	200	\$160,000	(\$180 <i>,</i> 000)	(\$900)
Low Income Direct Install	\$500,000	(\$180,000)	1,200	\$460,000	(\$690 <i>,</i> 000)	(\$580)
Residential Energy Discount	\$3,010,000	\$0	0	\$2,930,000	(\$3,010,000)	N/A
Public Streetlights	\$210,000	\$90,000	500	\$0	(\$110,000)	(\$220)

Building Electrification	\$1,970,000	\$3,530,000	20,800	\$6,860,000	\$1,560,000	\$80
Transportation Electrification	\$500,000	\$970,000	7,600	\$1,290,000	\$480,000	\$60

Step #5

Request Council approval of DSM-IRP allowing the transition to electrification programs



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