REDDING ELECTRIC UTILITY SHIFTING PERSPECTIVES:

Guiding the Future of Customer Programs

Demand-Side Management INTEGRATED RESOURCE PLAN



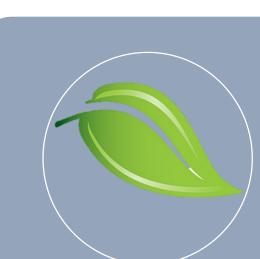
Step #1 Develop Guiding Principles



Offer measures where program participants save money



Ensure funds are not transferred from non-participants to participants via rate increases



Focus on programs that cost-effectively reduce carbon emissions

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

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

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Step #3 Characterize DSM Program Measures

Step #4 Perform Analysis to Identify 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	(\$180,000)	(\$900)
Low Income Direct Install	\$500,000	(\$180,000)	1,200	\$460,000	(\$690,000)	(\$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

