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March 4, 2014

## MEMORANDUM

- **TO:** Power Committee
- FROM: Charlie Grist

## SUBJECT: Briefing on Bonneville Tool for Utility Conservation Financial Impact

The financial impacts of energy efficiency investments continue to be a topic of high interest in the region. In August of last year Bonneville's Vice President of Energy Efficiency, Richard Génecé, briefed the Council on the agency analysis of the financial impact of conservation on the Bonneville system. That analysis addressed the Bonneville system perspective by comparing the cost of efficiency programs to the value of efficiency achievements over the past 10 years. It showed a net benefit of over one billion dollars in 2011 using Mid-Columbia spot price as a proxy for value.

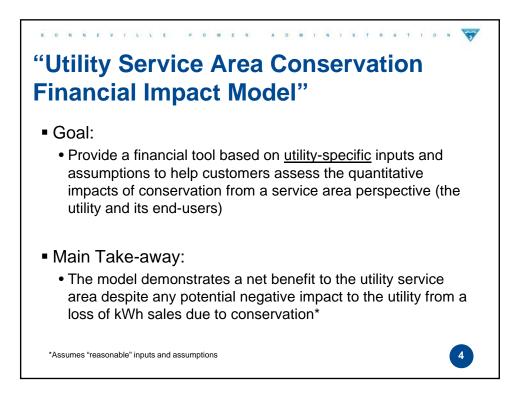
But retail utility customers of Bonneville have different financial perspectives based on their individual resource positions. To address the retail utility perspective, Bonneville has developed a Utility Service Area Conservation Financial Impact Model. The purpose of this tool is to help utilities get a clear financial picture of efficiency investments tailored to utility-specific conditions including impacts on revenues.

Matt Tidwell, policy specialist, spearheaded the Bonneville project to develop the utilitylevel tool. He will brief the Power Committee on the tool and how it is being used today by Bonneville's customers.









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Quantitative Exam	ple		
Utility "A" acquires a cumulative total of	~480,000 N	IWh between Fነ	/2014 and
FY2028, reducing their forecasted FY20	18 load by	~4.4%	
Utility Revenue Requirement Impacts	% of Cumulative Power Revenues		\$/MWh
Conservation Investment	11,120,393	0.4%	\$14.75
EEI Funding Used - \$	15,774,638		
Conservation Investment Less EEI Used \$	(4,654,245)	-0.2%	(\$6.18)
Avoided Wholesale Power/Transmission Costs - \$	15,697,045	0.5%	\$20.83
Lost Retail Revenue + \$	33,933,716	1.1%	\$45.02
Non-Electric Energy Utility Benefits - \$	-	0.0%	\$0.00
Net Cost to Utility Revenue Requirement \$	13,582,426	0.5%	\$18.02
End Users Impacts			
End Users' Power Bill Savings \$	33,933,716	1.1%	\$45.02
End Users' Conservation Investment (Less Rebates) - \$	15,775,997		
Non-Electric Energy End User Benefits + \$	-		
Net Savings to End Users \$	18,157,719		
Net Service Territory Benefit Over 15 Years \$	4,575,293		
Adjustment to the Energy Rate Only	Adjustment to the Customer Charge Only		
FY 2028 Rate Increase 4.30%	5.90% FY 2028 Rate Increase		
Annualized Rate Increase 0.29%	0.39% Annualized Rate Increase		

Same /

