

Energy Efficiency: Response to CIR Comment on Levelized Cost (4/3/14)

CIR Question:
 A Calculation of the Budget Impact of BPA's Energy Efficiency Investment:
 Yearly totals for FY2005-2013 of MWh saved through the energy efficiency programs (both capital and expense programs).
 Yearly (FY2005-2013) cumulative MWh savings, incorporating savings over the measure lifetime, for BPA energy efficiency savings.
 Yearly (FY2005-2013) average levelized cost per MWh for BPA energy efficiency savings.

Levelized Cost Calculation Assumptions

FY	BPA Payment Amount	BPA funded MWH (Cap. & Exp.)	Utility funded MWH	Total MWH	Cumulative MWH	aMW	Cumul aMW	BPA-funded Savings Levelized Costs (\$/MWH)	BPA-funded Savings Expensed Levelized	BPA-funded Savings Capitalized Levelized	All-funded Savings Levelized Cost	All-funded Savings Expensed Levelized	All-funded Savings Capitalized Levelized Cost	BPA Capital Cost	BPA % Capitalized	Finance Life	Interest Rate	Discount Rate	Composite Measure Life
2005	\$ 51,679,000.00	356,817	0	356,817	356,817	41	41	\$ 13.2	\$ 8.8	\$ 4.4	\$ 13.2	\$ 8.8	\$ 4.4	\$ 13,893,000	27%	12	4.93%	12%	12
2006	\$ 49,127,000.00	439,792	0	439,792	796,609	50	91	\$ 10.2	\$ 6.9	\$ 3.4	\$ 10.2	\$ 6.9	\$ 3.4	\$ 12,856,000	26%	12	5.38%	12%	12
2007	\$ 55,745,000.00	418,851	54,678	473,529	1,270,138	54	145	\$ 11.7	\$ 9.5	\$ 2.1	\$ 10.3	\$ 8.4	\$ 1.9	\$ 7,779,000	14%	12	5.10%	12%	12
2008	\$ 48,986,000.00	422,780	157,052	579,832	1,849,971	66	211	\$ 9.7	\$ 9.4	\$ 0.3	\$ 7.1	\$ 6.9	\$ 0.2	\$ 1,137,000	2%	12	4.56%	12%	12
2009	\$ 56,933,847.27	378,371	157,182	535,553	2,385,524	61	272	\$ 12.9	\$ 11.3	\$ 1.6	\$ 9.1	\$ 8.0	\$ 1.1	\$ 5,762,847	10%	12	3.83%	12%	12
2010	\$ 103,391,445.67	532,866	262,254	795,121	3,180,644	91	363	\$ 17.5	\$ 11.7	\$ 5.8	\$ 11.7	\$ 7.9	\$ 3.9	\$ 28,380,446	27%	12	4.27%	12%	12
2011	\$ 187,160,816.32	1,042,459	32,134	1,074,594	4,255,238	123	486	\$ 18.2	\$ 3.1	\$ 15.1	\$ 17.7	\$ 3.0	\$ 14.6	\$ 147,894,816	79%	12	3.98%	12%	12
2012	\$ 87,127,489.52	487,726	106,971	594,696	4,849,935	68	554	\$ 17.4	\$ 3.0	\$ 14.5	\$ 14.3	\$ 2.4	\$ 11.9	\$ 69,827,809	80%	12	3.10%	12%	12
2013	\$ 85,344,369.93	465,559	228,872	694,431	5,544,366	79	633	\$ 17.3	\$ 3.8	\$ 13.5	\$ 11.6	\$ 2.6	\$ 9.0	\$ 64,088,376	75%	12	2.57%	12%	12
								\$ 15.0			\$ 12.3								
								Wgtd Average			Wgtd Average								

Notes:
 The above table includes State LiWx.
 If State LiWx is excluded, the average levelized cost decreases by only \$0.6/MWH.
 Includes BPA-funded NEEA (expensed).
 BPA Payments include payments made to Norpac for savings achieved.
 2005 - 2011 based on 2011 Red Book
 A small amount of the savings (and associated dollars) reported into IS2.0 were assigned to 2009-11 based on completion dates.
 So, there won't be an exact match with the Red Book.
 2012 - 2013 based on IS2.0 and third-party programs in the EEDB.

Assumptions for Levelized Cost Calculations:

BPA-funded Savings Levelized Costs: Calculated for only BPA-funded savings
 All-funded Savings Levelized Costs: Calculated for only BPA-funded and Utility-funded savings

This information has been made publicly available by BPA on April 3, 2014 and contains information not reported in BPA financial statements.

Fiscal Year	Nominal based on Statement A (Tier 1 Non-Slice)	Cumulative Energy Savings (aMW)
2005	28.73	41
2006	28.34	91
2007	27	145
2008	27.08	211
2009	26.59	272
2010	28.5	363
2011	28.6	486
2012	29.41	554
2013	29.48	633