

**APPENDIX 8B. DETAILED LIFE-CYCLE COST AND PAYBACK PERIOD  
ANALYSIS RESULTS**

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## APPENDIX 8B. DETAILED LIFE-CYCLE COST AND PAYBACK PERIOD ANALYSIS RESULTS

### 8B.1 INTRODUCTION

This appendix contains detailed output from the life-cycle cost (LCC) and payback period (PBP) analysis for automatic commercial ice makers, as developed using the LCC spreadsheet. LCC and PBPs are presented for each of the 21<sup>1</sup> equipment classes at each efficiency level. See chapter 8 of the technical support document (TSD) for an explanation of the LCC spreadsheet.

LCC savings output obtained from the LCC analysis are in the form of distributions. LCC savings distributions were generated by performing 10,000 separate simulations using the LCC spreadsheet, and allowing the spreadsheet to select values for numerous inputs given probability distributions for each input. Given the results of the LCC model simulations, for each equipment type, the U.S. Department of Energy (DOE) calculated summary statistics—average values for LCC, product installation costs and operating costs; a distribution of customers who: (1) receive benefits in the form of lower LCC results; (2) are not affected by the standards; or (3) experience a cost in the form of increased LCC from equipment ownership. Results of the LCC and accompanying PBP analyses are shown in the tables in this appendix.

Also included in this appendix are two graphical presentations for each of the LCC and PBP results. One plots the distributions of LCC savings for customers affected by the standards, at each efficiency level, for all equipment classes analyzed. The figures illustrate the mean and median values on the plot with the help of red and blue markers, respectively. Additionally, the mean and median values are surrounded by rectangular boxes used to represent the 25th and 75th percentile values. The lower edge of the elongated rectangle represents the 25th percentile, which means 25 percent of customers will experience LCC savings below the value represented by the bottom of the rectangle if the standard were set at the level in question. The upper edge of the elongated rectangle represents the 75th percentile. Finally, each of the rectangles includes two “tails,” or two vertical black lines, extending downward to represent the 5th percentile (lower end) and upward to represent the 95th percentile (upper end). The second set of graphs presents PBP results, with analogous levels of information. PBP results represent savings for all customers, not just for affected customers.

To simplify the presentation, all efficiency levels are presented as numbered levels. Hence, the efficiency level called baseline in other chapters of this TSD is presented as Level 1. All higher efficiency levels are numbered sequentially, from Level 2 to Level 7.

The remainder of this appendix presents the tabular and graphical results for the 21 equipment classes analyzed for the automatic commercial ice maker rulemaking.

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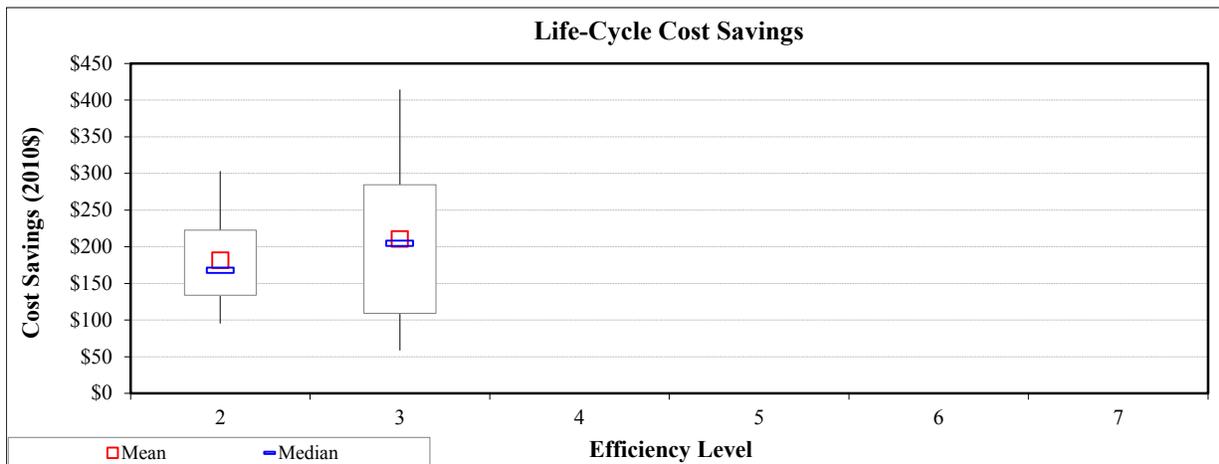
<sup>1</sup> DOE has not found information indicating that any shipments exist in the self-contained, water cooled, small continuous equipment class. This class is included herein, but there is no data to display on the table or graphs.

## 8B.2 LIFE-CYCLE COST RESULTS

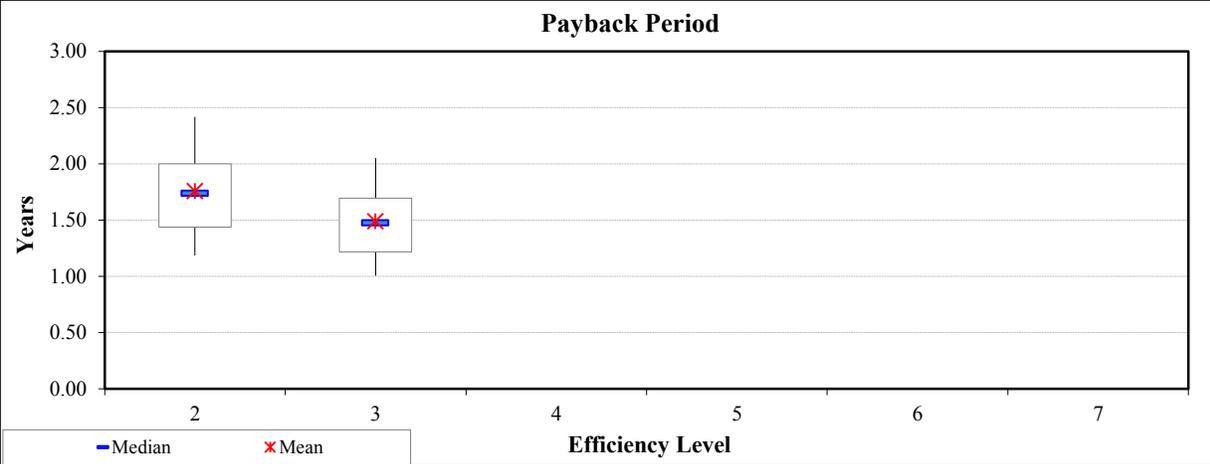
### 8B.2.1 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR ICE-MAKING HEAD, WATER-COOLED, SMALL, BATCH (IMH-W-SMALL-B)

**Table 8B.2.1 Life-Cycle Cost and Payback Period Results for Ice-Making Head, Water-Cooled, Small, Batch (IMH-W-Small-B)**

Efficiency Level Number	Efficiency Level <i>kWh/year</i>	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings				Payback Period, Median <i>Years</i>
		Installed Cost <i>2010\$</i>	Total Discounted Operating Cost <i>2010\$</i>	LCC, All Customers <i>2010\$</i>	Affected Customers' Average Savings <i>2010\$</i>	% of Customers that Experience			
						Net Cost %	No Impact %	Net Benefit %	
1	3,389	4,219	9,694	13,913	0	NA	NA	NA	NA
2	3,052	4,270	9,462	13,733	181	0	49	51	1.74
3	2,918	4,280	9,370	13,650	210	0	27	73	1.47
4	NA	NA	NA	NA	NA	NA	NA	NA	NA
5	NA	NA	NA	NA	NA	NA	NA	NA	NA
6	NA	NA	NA	NA	NA	NA	NA	NA	NA
7	NA	NA	NA	NA	NA	NA	NA	NA	NA



**Figure 8B.2.1 Life-Cycle Cost Results for Ice-Making Head, Water-Cooled, Small, Batch (IMH-W-Small-B)**

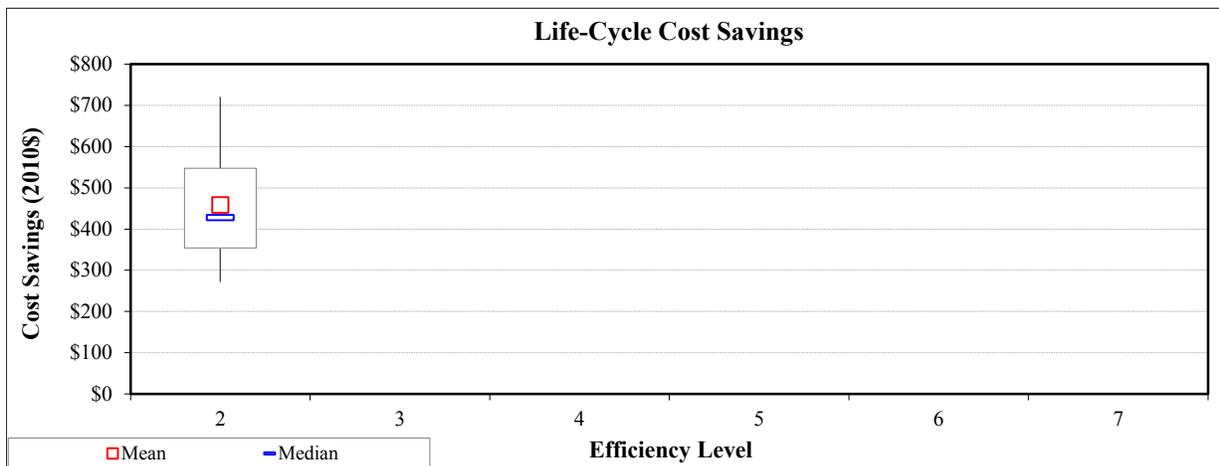


**Figure 8B.2.2 Payback Period Results for Ice-Making Head, Water-Cooled, Small, Batch (IMH-W-Small-B)**

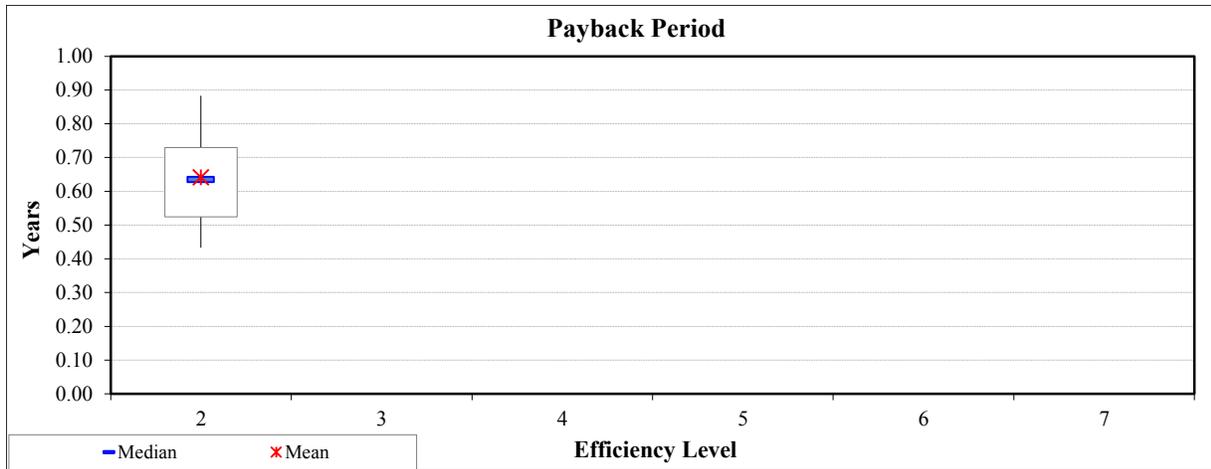
**8B.2.2 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR ICE-MAKING HEAD, WATER-COOLED, MEDIUM, BATCH (IMH-W- MED -B)**

**Table 8B.2.2 Life-Cycle Cost and Payback Period Results for Ice-Making Head, Water-Cooled, Medium, Batch (IMH-W-Med-B)**

Efficiency Level Number	Efficiency Level kWh/year	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings				Payback Period, Median Years
		Installed Cost 2010\$	Total Discounted Operating Cost 2010\$	LCC, All Customers 2010\$	Affected Customers' Average Savings 2010\$	% of Customers that Experience			
						Net Cost %	No Impact %	Net Benefit %	
1	7,227	6,988	23,101	30,089	0	NA	NA	NA	NA
2	6,507	7,028	22,605	29,633	457	0	26	74	0.63
3	NA	NA	NA	NA	NA	NA	NA	NA	NA
4	NA	NA	NA	NA	NA	NA	NA	NA	NA
5	NA	NA	NA	NA	NA	NA	NA	NA	NA
6	NA	NA	NA	NA	NA	NA	NA	NA	NA
7	NA	NA	NA	NA	NA	NA	NA	NA	NA



**Figure 8B.2.3 Life-Cycle Cost Results for Ice-Making Head, Water-Cooled, Medium, Batch (IMH-W- Med -B)**

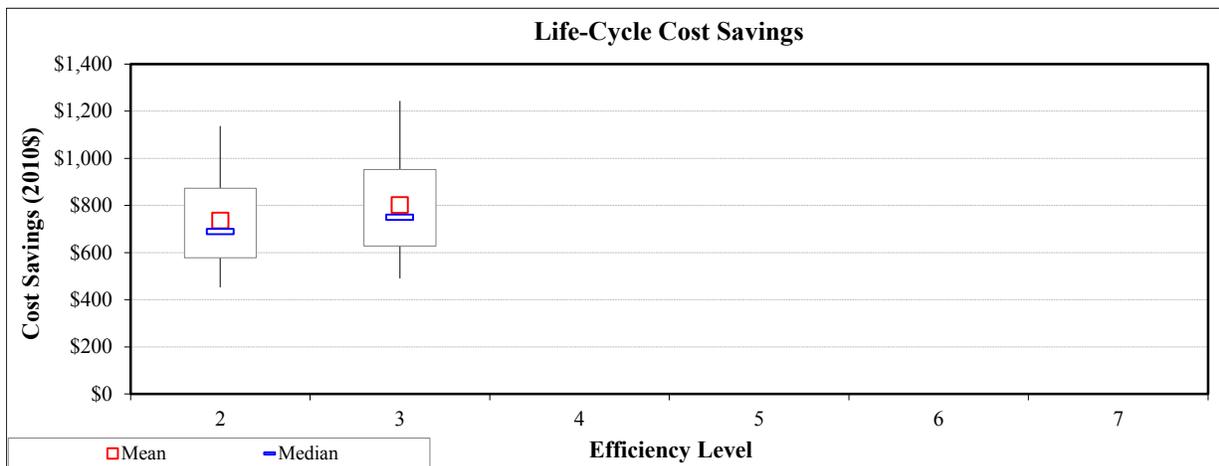


**Figure 8B.2.4 Payback Period Results for Ice-Making Head, Water-Cooled, Medium, Batch (IMH-W- Med -B)**

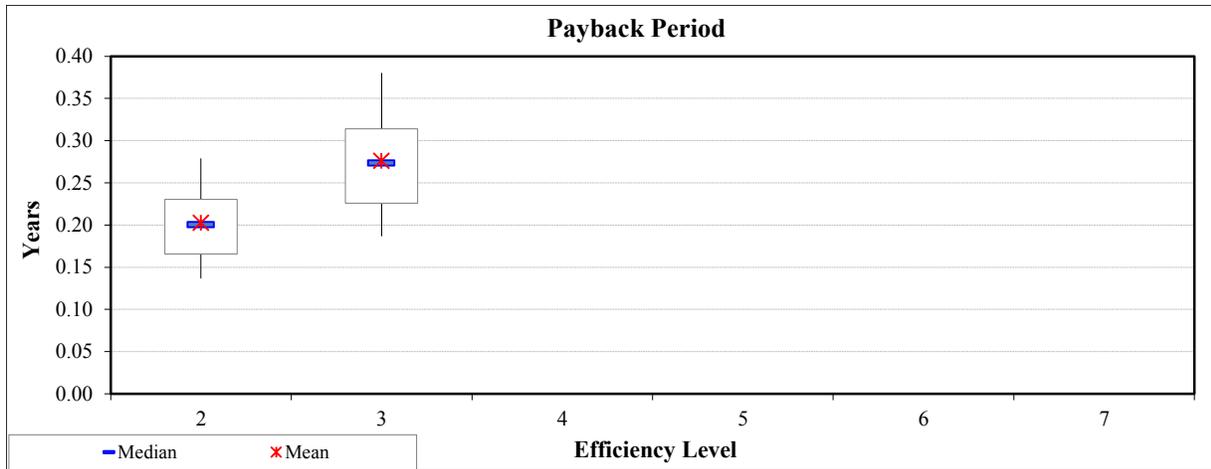
### 8B.2.3 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR ICE-MAKING HEAD, WATER-COOLED, LARGE, BATCH (IMH-W-LARGE-B)

**Table 8B.2.3 Life-Cycle Cost and Payback Period Results for Ice-Making Head, Water-Cooled, Large, Batch (IMH-W-Large-B)**

Efficiency Level Number	Efficiency Level <i>kWh/year</i>	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings				Payback Period, Median <i>Years</i>
		Installed Cost <i>2010\$</i>	Total Discounted Operating Cost <i>2010\$</i>	LCC, All Customers <i>2010\$</i>	Affected Customers' Average Savings <i>2010\$</i>	% of Customers that Experience			
						Net Cost %	No Impact %	Net Benefit %	
1	10,972	10,258	36,808	47,066	0	NA	NA	NA	0.00
2	9,877	10,277	36,054	46,331	735	0	18	82	0.20
3	9,767	10,287	35,979	46,266	801	0	18	82	0.27
4	NA	NA	NA	NA	NA	NA	NA	NA	NA
5	NA	NA	NA	NA	NA	NA	NA	NA	NA
6	NA	NA	NA	NA	NA	NA	NA	NA	NA
7	NA	NA	NA	NA	NA	NA	NA	NA	NA



**Figure 8B.2.5 Life-Cycle Cost Results for Ice-Making Head, Water-Cooled, Large, Batch (IMH-W-Large-B)**

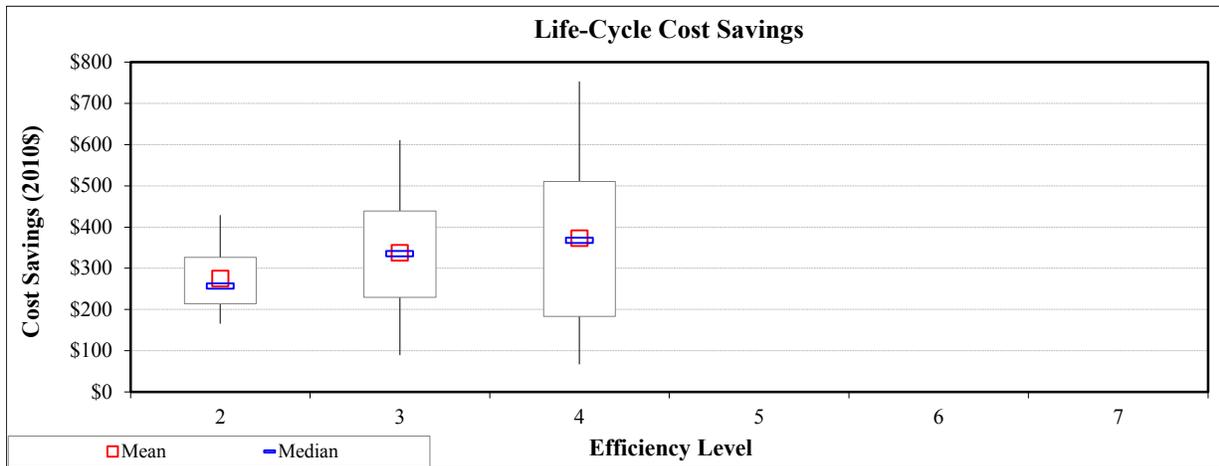


**Figure 8B.2.6 Payback Period Results for Ice-Making Head, Water-Cooled, Large, Batch (IMH-W-Large-B)**

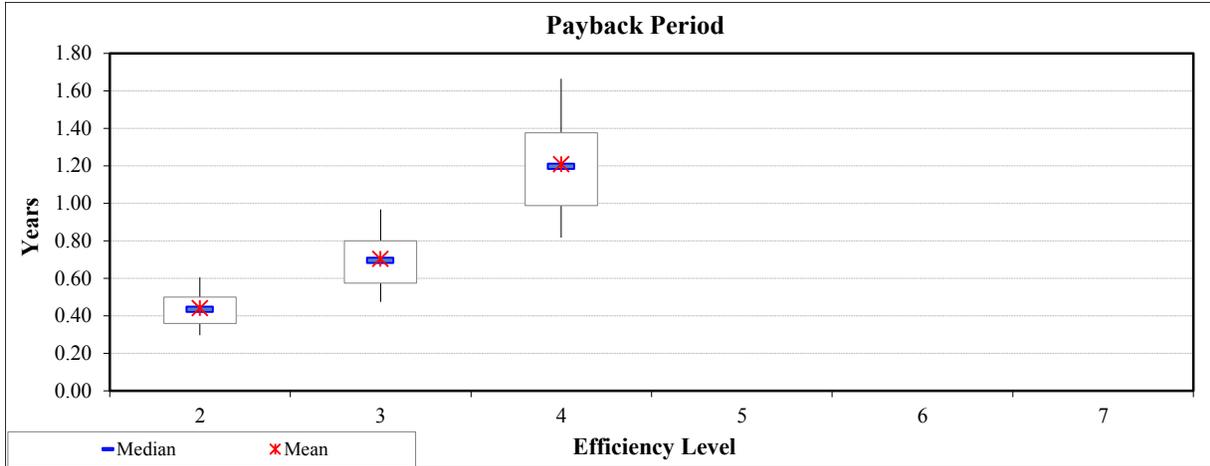
**8B.2.4 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR ICE-MAKING HEAD, AIR-COOLED, SMALL, BATCH (IMH-A-SMALL-B)**

**Table 8B.2.4 Life-Cycle Cost and Payback Period Results for Ice-Making Head, Air-Cooled, Small, Batch (IMH-A-Small-B)**

Efficiency Level Number	Efficiency Level kWh/year	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings			Payback Period, Median Years	
		Installed Cost 2010\$	Total Discounted Operating Cost 2010\$	LCC, All Customers 2010\$	Affected Customers' Average Savings 2010\$	% of Customers that Experience			
						Net Cost %	No Impact %		Net Benefit %
1	4,227	4,227	5,243	9,471	0	NA	NA	NA	NA
2	3,806	4,243	4,954	9,197	275	0	41	59	0.44
3	3,596	4,266	4,809	9,075	337	0	24	76	0.70
4	3,386	4,315	4,664	8,980	373	0	8	92	1.20
5	NA	NA	NA	NA	NA	NA	NA	NA	NA
6	NA	NA	NA	NA	NA	NA	NA	NA	NA
7	NA	NA	NA	NA	NA	NA	NA	NA	NA



**Figure 8B.2.7 Life-Cycle Cost Results for Ice-Making Head, Air-Cooled, Small, Batch (IMH-A-Small-B)**

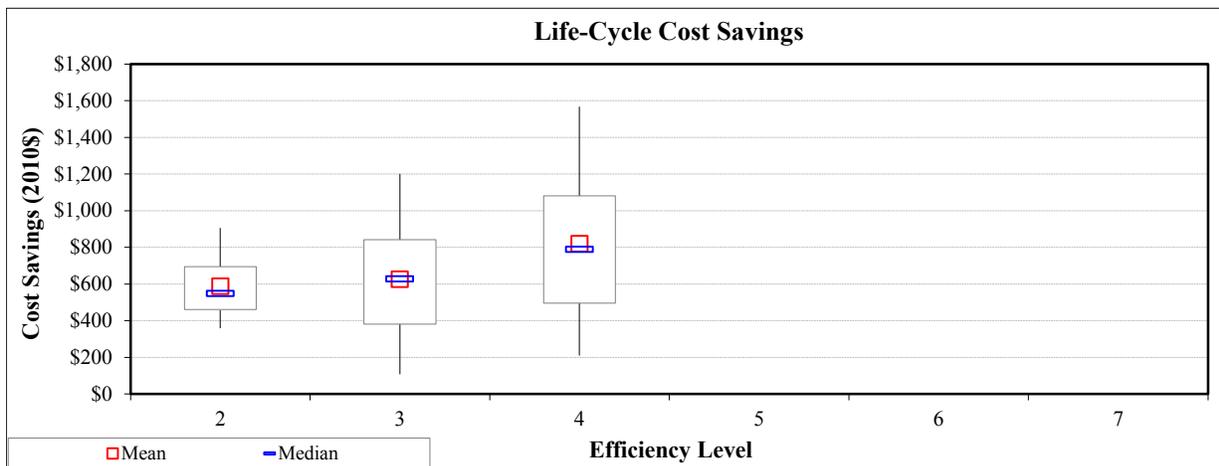


**Figure 8B.2.8 Payback Period Results for Ice-Making Head, Air-Cooled, Small, Batch (IMH-A-Small-B)**

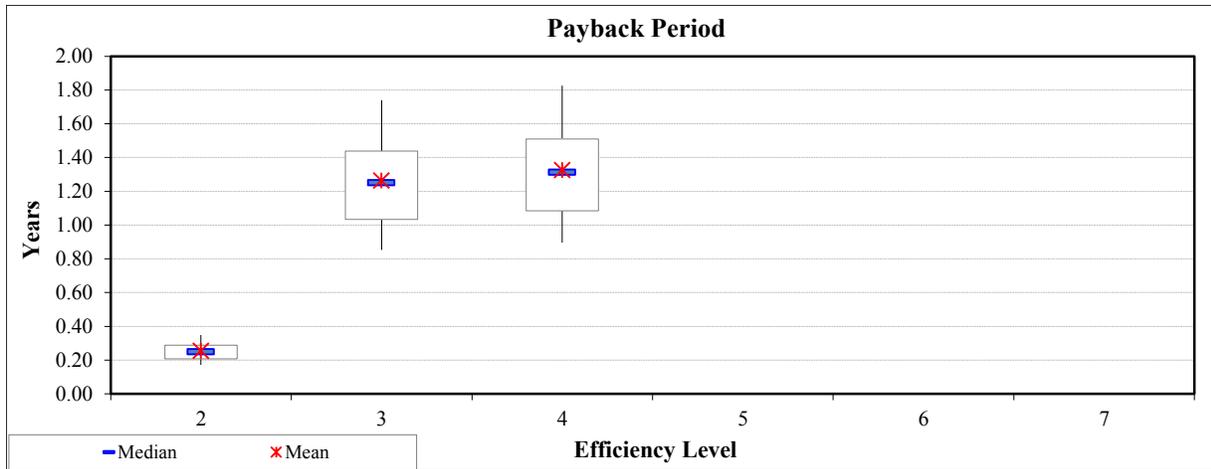
**8B.2.5 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR ICE-MAKING HEAD, AIR-COOLED, LARGE, BATCH (IMH-A-LARGE-B)**

**Table 8B.2.5 Life-Cycle Cost and Payback Period Results for Ice-Making Head, Air-Cooled, Large, Batch (IMH-A-Large-B)**

Efficiency Level Number	Efficiency Level <i>kWh/year</i>	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings				Payback Period, Median <i>Years</i>
		Installed Cost <i>2010\$</i>	Total Discounted Operating Cost <i>2010\$</i>	LCC, All Customers <i>2010\$</i>	Affected Customers' Average Savings <i>2010\$</i>	% of Customers that Experience			
						Net Cost %	No Impact %	Net Benefit %	
1	8,797	6,190	10,153	16,344	0	NA	NA	NA	NA
2	7,919	6,210	9,549	15,759	586	0	31	69	0.25
3	7,480	6,334	9,247	15,582	625	0	10	90	1.25
4	7,042	6,392	8,945	15,337	818	0	2	98	1.31
5	NA	NA	NA	NA	NA	NA	NA	NA	NA
6	NA	NA	NA	NA	NA	NA	NA	NA	NA
7	NA	NA	NA	NA	NA	NA	NA	NA	NA



**Figure 8B.2.9 Life-Cycle Cost Results for Ice-Making Head, Air-Cooled, Large, Batch (IMH-A-Large-B)**

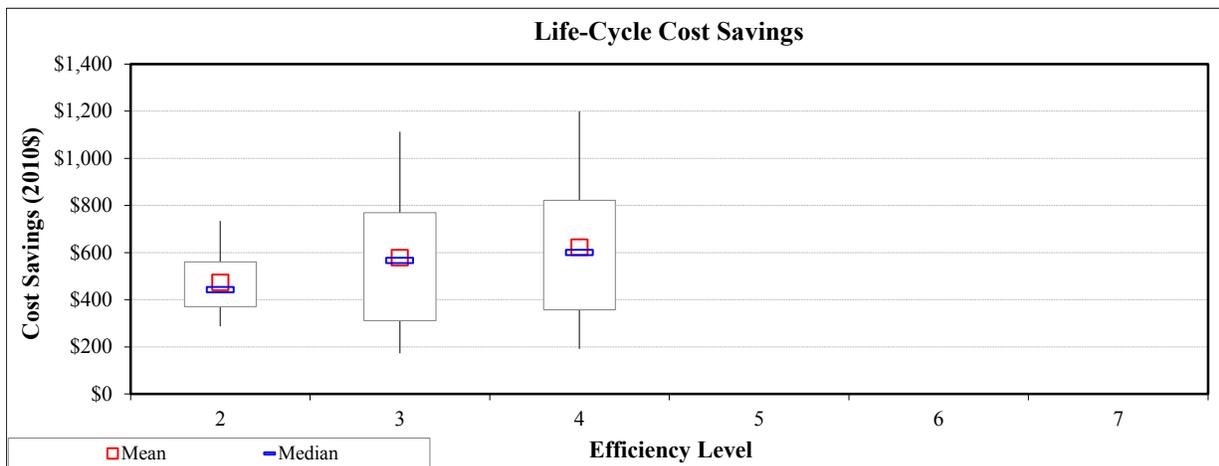


**Figure 8B.2.10 Payback Period Results for Ice-Making Head, Air-Cooled, Large, Batch (IMH-A-Large-B)**

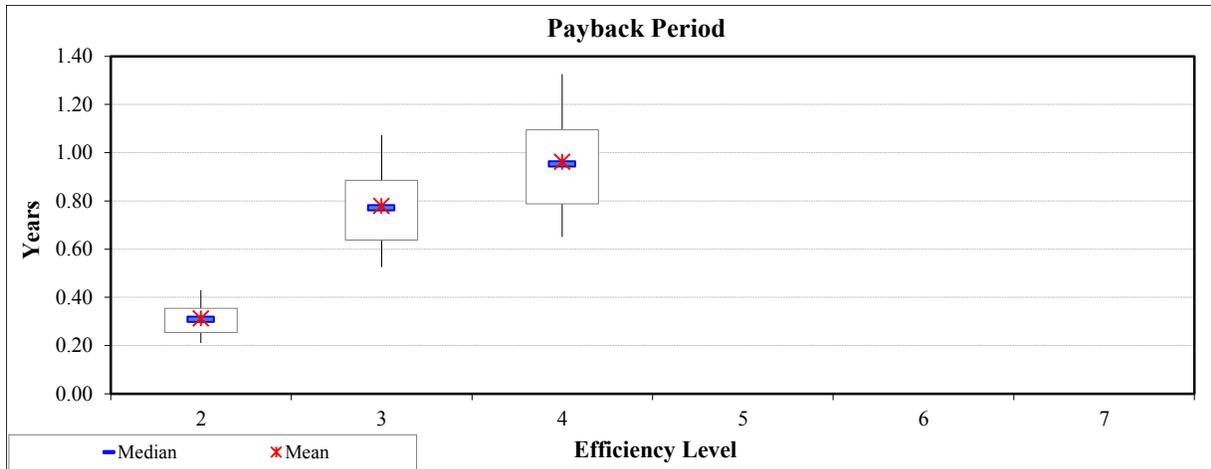
### 8B.2.6 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR REMOTE CONDENSING UNIT, SMALL, BATCH (RCU-SMALL-B)

**Table 8B.2.6 Life-Cycle Cost and Payback Period Results for Remote Condensing Unit, Small, Batch (RCU-Small-B)**

Efficiency Level Number	Efficiency Level <i>kWh/year</i>	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings				Payback Period, Median <i>Years</i>
		Installed Cost <i>2010\$</i>	Total Discounted Operating Cost <i>2010\$</i>	LCC, All Customers <i>2010\$</i>	Affected Customers' Average Savings <i>2010\$</i>	% of Customers that Experience			
						Net Cost %	No Impact %	Net Benefit %	
1	7,930	7,289	9,839	17,128	0	NA	NA	NA	NA
2	7,218	7,308	9,349	16,658	472	0	43	57	0.31
3	6,743	7,369	9,023	16,392	577	0	13	87	0.77
4	6,625	7,398	8,941	16,339	623	0	12	88	0.95
5	NA	NA	NA	NA	NA	NA	NA	NA	NA
6	NA	NA	NA	NA	NA	NA	NA	NA	NA
7	NA	NA	NA	NA	NA	NA	NA	NA	NA



**Figure 8B.2.11 Life-Cycle Cost Results for Remote Condensing Unit, Small, Batch (RCU-Small-B)**

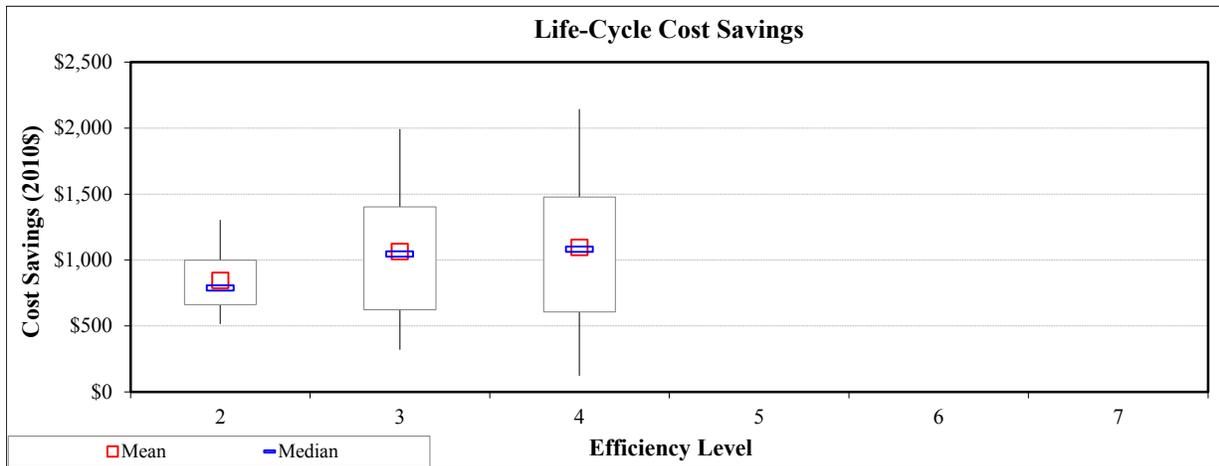


**Figure 8B.2.12 Payback Period Results for Remote Condensing Unit, Small, Batch (RCU-Small-B)**

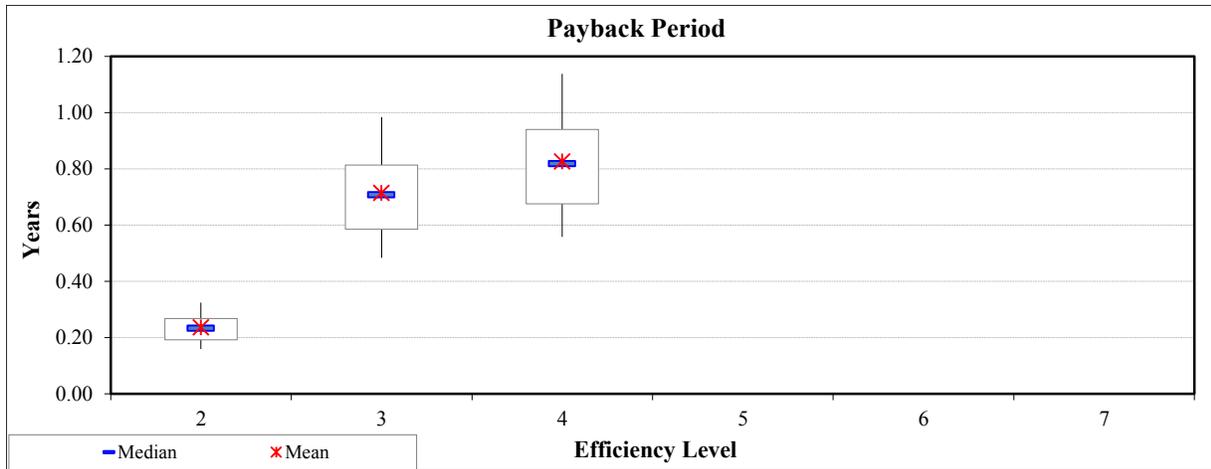
**8B.2.7 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR REMOTE CONDENSING UNIT, LARGE, BATCH (RCU-LARGE-B)**

**Table 8B.2.7 Life-Cycle Cost and Payback Period Results for Remote Condensing Unit, Large, Batch (RCU-Large-B)**

Efficiency Level Number	Efficiency Level <i>kWh/year</i>	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings				Payback Period, Median <i>Years</i>
		Installed Cost <i>2010\$</i>	Total Discounted Operating Cost <i>2010\$</i>	LCC, All Customers <i>2010\$</i>	Affected Customers' Average Savings <i>2010\$</i>	% of Customers that Experience			
						Net Cost <i>%</i>	No Impact <i>%</i>	Net Benefit <i>%</i>	
1	13,983	12,893	17,804	30,697	0	NA	NA	NA	NA
2	12,727	12,918	16,939	29,857	842	0	45	55	0.23
3	11,889	13,022	16,362	29,385	1062	0	21	79	0.71
4	11,680	13,057	16,218	29,276	1093	0	15	85	0.82
5	NA	NA	NA	NA	NA	NA	NA	NA	NA
6	NA	NA	NA	NA	NA	NA	NA	NA	NA
7	NA	NA	NA	NA	NA	NA	NA	NA	NA



**Figure 8B.2.13 Life-Cycle Cost Results for Remote Condensing Unit, Large, Batch (RCU-Large-B)**

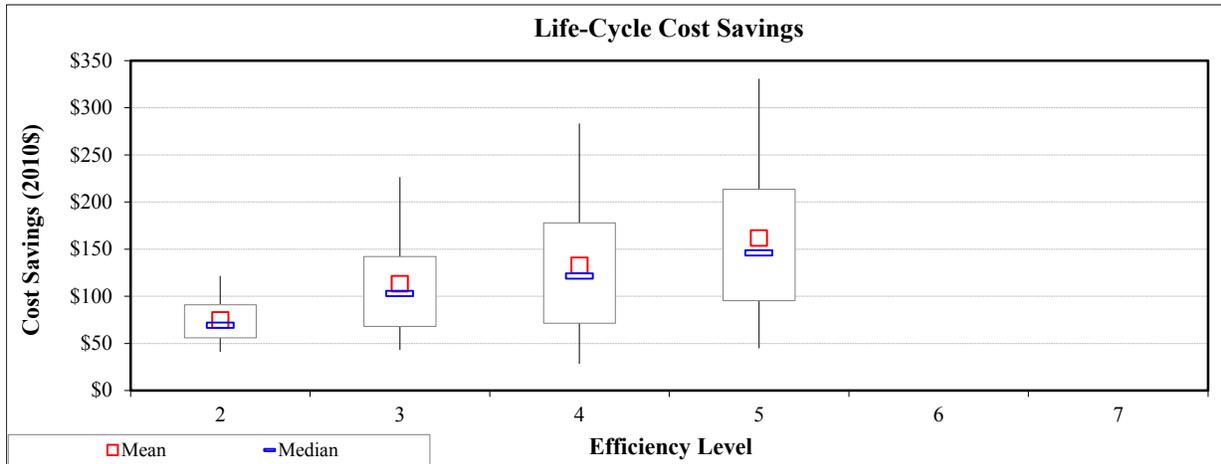


**Figure 8B.2.14 Payback Period Results for Remote Condensing Unit, Large, Batch (RCU-Large-B)**

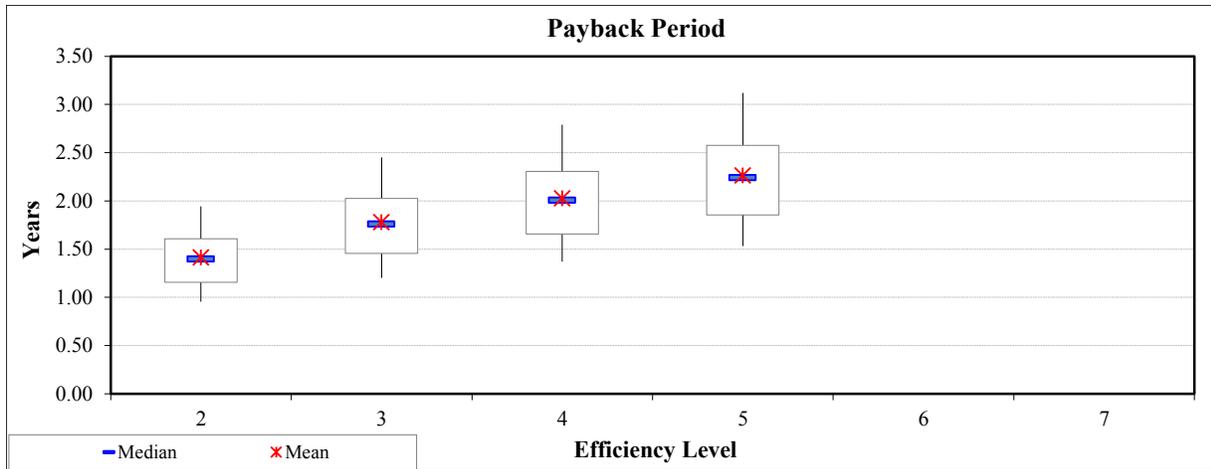
**8B.2.8 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR SELF-CONTAINED UNIT, WATER-COOLED, SMALL, BATCH (SCU-W-SMALL-B)**

**Table 8B.2.8 Life-Cycle Cost and Payback Period Results for Self-Contained Unit, Water-Cooled, Small, Batch (SCU-W-Small-B)**

Efficiency Level Number	Efficiency Level <i>kWh/year</i>	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings				Payback Period, Median <i>Years</i>
		Installed Cost <i>2010\$</i>	Total Discounted Operating Cost <i>2010\$</i>	LCC, All Customers <i>2010\$</i>	Affected Customers' Average Savings <i>2010\$</i>	% of Customers that Experience			
						Net Cost %	No Impact %	Net Benefit %	
1	1,891	4,569	5,351	9,921	0	NA	NA	NA	NA
2	1,760	4,585	5,261	9,847	75	0	63	37	1.40
3	1,611	4,613	5,158	9,771	113	0	25	75	1.76
4	1,517	4,635	5,094	9,729	133	0	6	94	2.01
5	1,442	4,657	5,042	9,700	162	0	6	94	2.24
6	NA	NA	NA	NA	NA	NA	NA	NA	NA
7	NA	NA	NA	NA	NA	NA	NA	NA	NA



**Figure 8B.2.15 Life-Cycle Cost Results for Self-Contained Unit, Water-Cooled, Small, Batch (SCU-W-Small-B)**

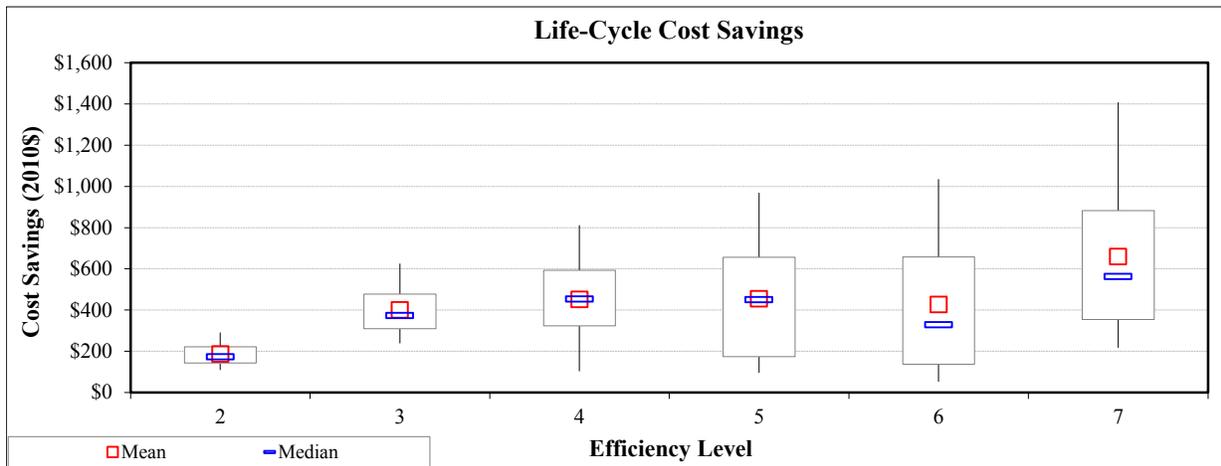


**Figure 8B.2.16 Payback Period Results for Self-Contained Unit, Water-Cooled, Small, Batch (SCU-W-Small-B)**

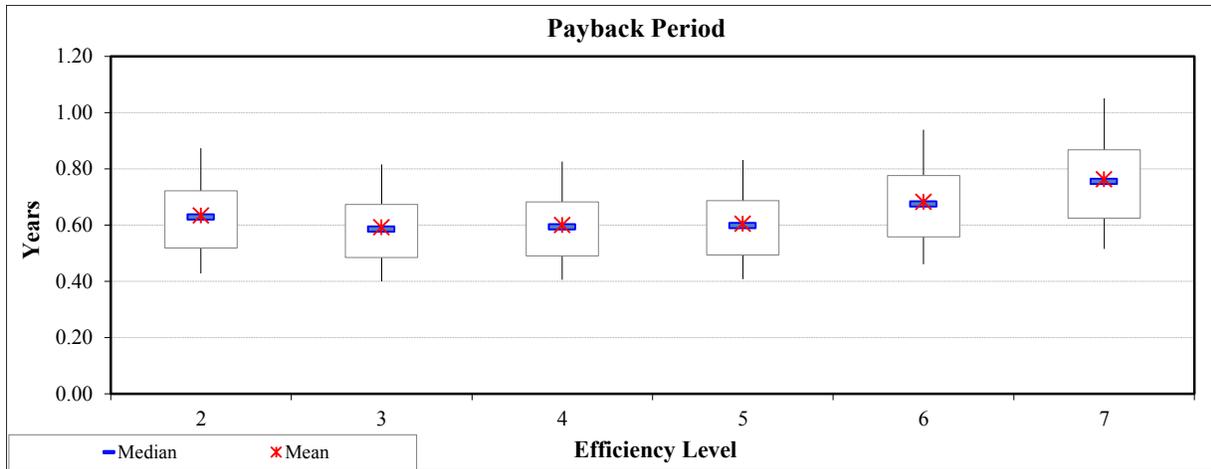
**8B.2.9 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR SELF-CONTAINED UNIT, WATER-COOLED, LARGE, BATCH (SCU-W-LARGE-B)**

**Table 8B.2.9 Life-Cycle Cost and Payback Period Results for Self-Contained Unit, Water-Cooled, Large, Batch (SCU-W-Large-B)**

Efficiency Level Number	Efficiency Level <i>kWh/year</i>	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings				Payback Period, Median <i>Years</i>
		Installed Cost <i>2010\$</i>	Total Discounted Operating Cost <i>2010\$</i>	LCC, All Customers <i>2010\$</i>	Affected Customers' Average Savings <i>2010\$</i>	% of Customers that Experience			
						Net Cost <i>%</i>	No Impact <i>%</i>	Net Benefit <i>%</i>	
1	4,183	4,592	10,867	15,459	0	NA	NA	NA	NA
2	3,892	4,608	10,667	15,274	185	0	60	40	0.63
3	3,559	4,624	10,438	15,061	399	0	60	40	0.59
4	3,351	4,635	10,294	14,929	450	0	50	50	0.59
5	3,143	4,646	10,151	14,797	454	0	30	70	0.60
6	3,018	4,660	10,065	14,726	426	0	10	90	0.68
7	2,560	4,699	9,750	14,449	659	0	0	100	0.76



**Figure 8B.2.17 Life-Cycle Cost Results for Self-Contained Unit, Water-Cooled, Large, Batch (SCU-W-Large-B)**

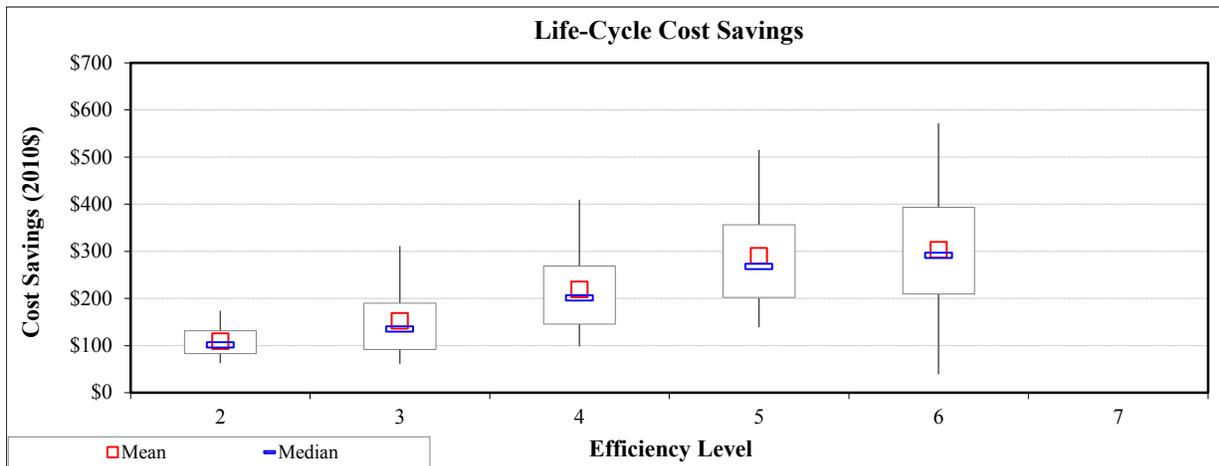


**Figure 8B.2.18 Payback Period Results for Self-Contained Unit, Water-Cooled, Large, Batch (SCU-W-Large-B)**

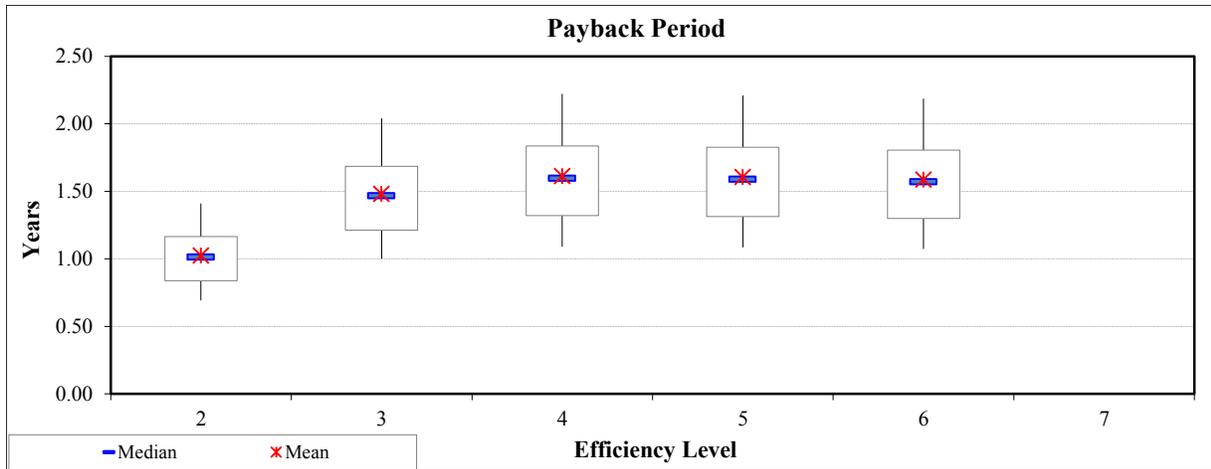
**8B.2.10 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR SELF-CONTAINED UNIT, AIR-COOLED, SMALL, BATCH (SCU-A-SMALL-B)**

**Table 8B.2.10 Life-Cycle Cost and Payback Period Results for Self-Contained Unit, Air-Cooled, Small, Batch (SCU-A-Small-B)**

Efficiency Level Number	Efficiency Level <i>kWh/year</i>	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings				Payback Period, Median <i>Years</i>
		Installed Cost <i>2010\$</i>	Total Discounted Operating Cost <i>2010\$</i>	LCC, All Customers <i>2010\$</i>	Affected Customers' Average Savings <i>2010\$</i>	% of Customers that Experience			
						Net Cost %	No Impact %	Net Benefit %	
1	2,600	4,569	3,900	8,469	0	NA	NA	NA	NA
2	2,419	4,585	3,776	8,361	109	0	68	32	1.01
3	2,213	4,619	3,634	8,253	152	0	19	81	1.47
4	2,084	4,641	3,545	8,187	219	0	19	81	1.60
5	1,955	4,659	3,456	8,115	290	0	19	81	1.59
6	1,878	4,669	3,403	8,072	303	0	10	90	1.57
7	NA	NA	NA	NA	NA	NA	NA	NA	NA



**Figure 8B.2.19 Life-Cycle Cost Results for Self-Contained Unit, Air-Cooled, Small, Batch (SCU-A-Small-B)**

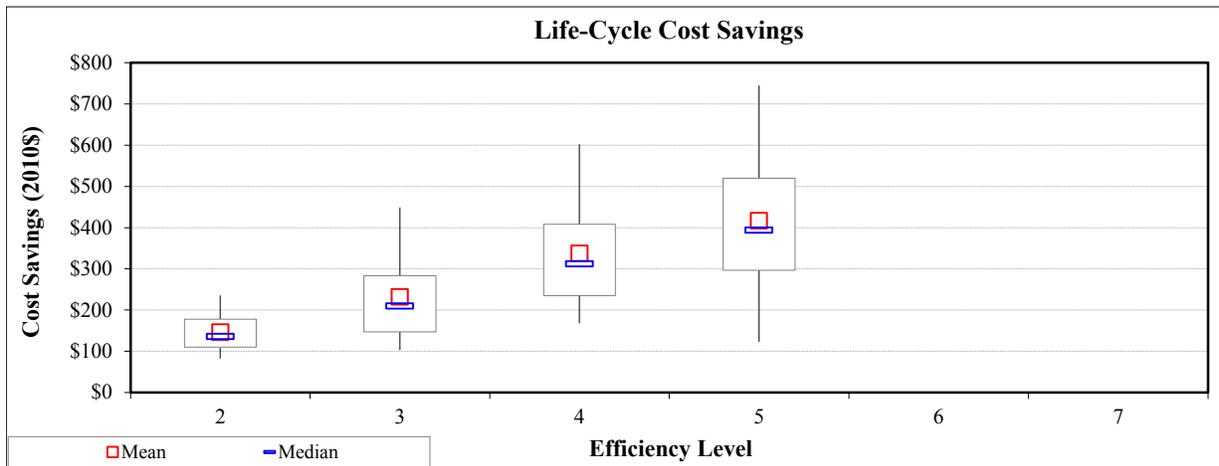


**Figure 8B.2.20 Payback Period Results for Self-Contained Unit, Air-Cooled, Small, Batch (SCU-A-Small-B)**

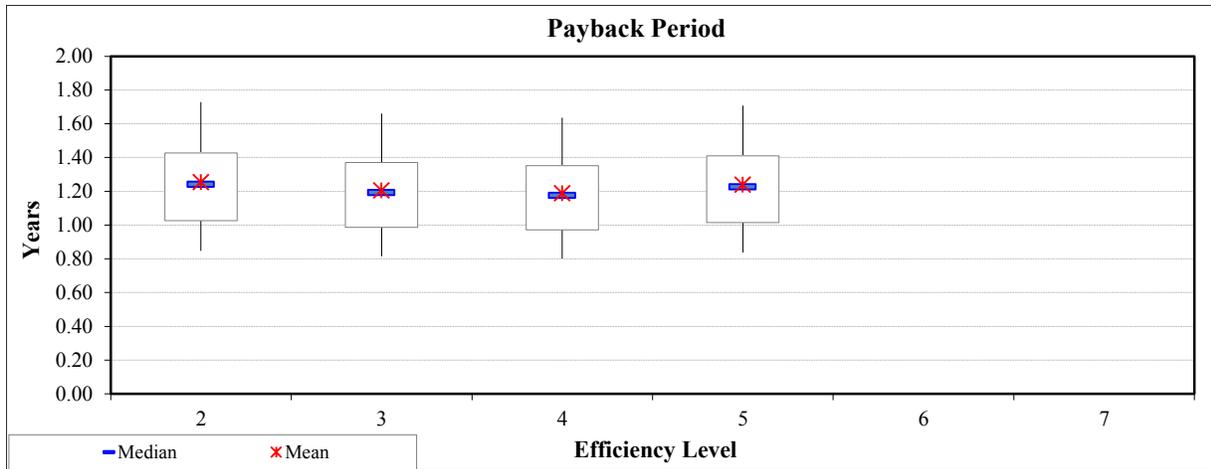
**8B.2.11 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR SELF-CONTAINED UNIT, AIR-COOLED, LARGE, BATCH (SCU-A-LARGE-B)**

**Table 8B.2.11 Life-Cycle Cost and Payback Period Results for Self-Contained Unit, Air-Cooled, Large, Batch (SCU-A-Large-B)**

Efficiency Level Number	Efficiency Level <i>kWh/year</i>	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings				Payback Period, Median <i>Years</i>
		Installed Cost <i>2010\$</i>	Total Discounted Operating Cost <i>2010\$</i>	LCC, All Customers <i>2010\$</i>	Affected Customers' Average Savings <i>2010\$</i>	% of Customers that Experience			
						Net Cost %	No Impact %	Net Benefit %	
1	3,599	4,580	4,796	9,375	0	NA	NA	NA	NA
2	3,349	4,607	4,624	9,230	146	0	67	33	1.24
3	3,062	4,636	4,427	9,062	231	0	22	78	1.19
4	2,884	4,653	4,303	8,957	337	0	22	78	1.18
5	2,705	4,676	4,180	8,856	416	0	17	83	1.23
6	NA	NA	NA	NA	NA	NA	NA	NA	NA
7	NA	NA	NA	NA	NA	NA	NA	NA	NA



**Figure 8B.2.21 Life-Cycle Cost Results for Self-Contained Unit, Air-Cooled, Large, Batch (SCU-A-Large-B)**

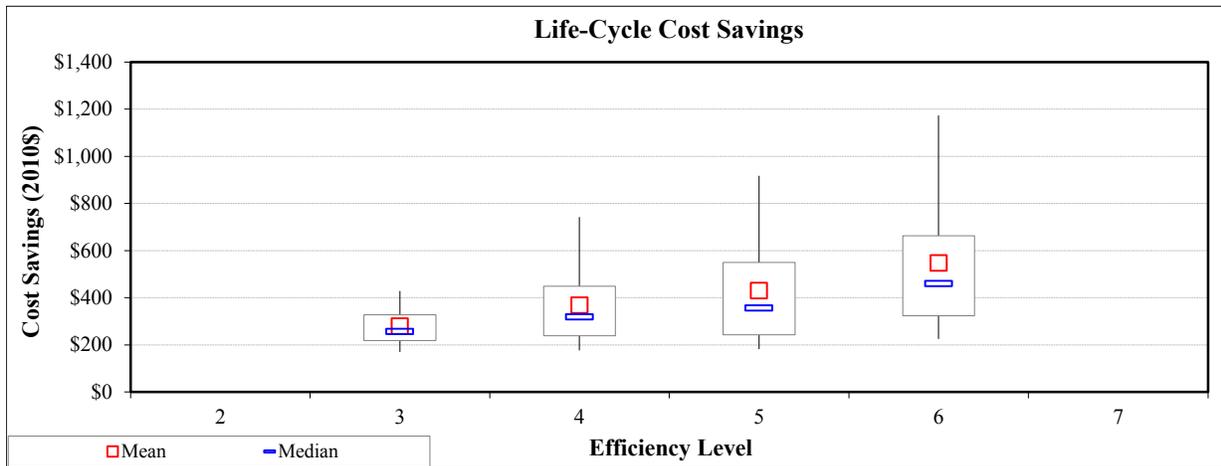


**Figure 8B.2.22 Payback Period Results for Self-Contained Unit, Air-Cooled, Large, Batch (SCU-A-Large-B)**

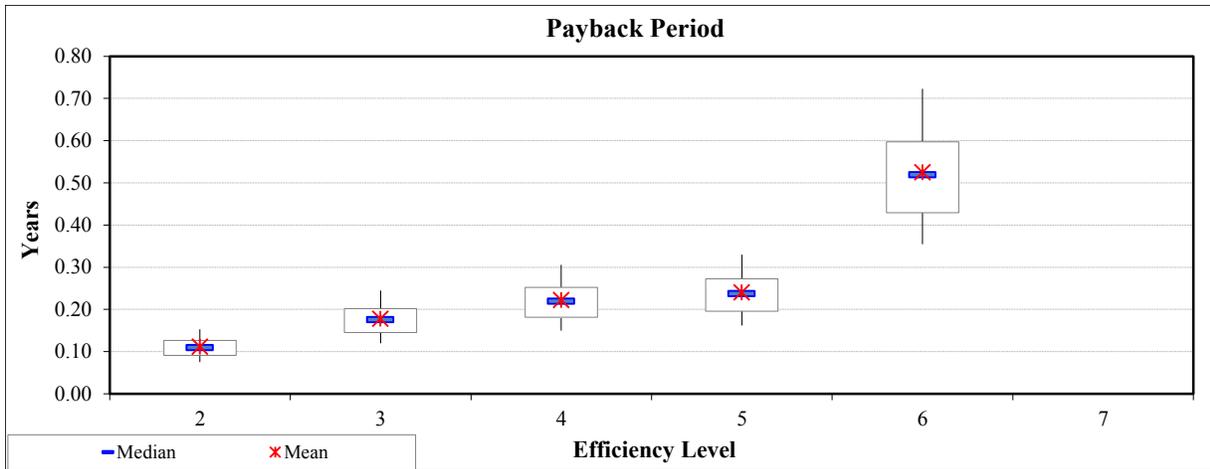
**8B.2.12 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR ICE-MAKING HEAD, WATER-COOLED, SMALL, CONTINUOUS (IMH-W-SMALL-C)**

**Table 8B.2.12 Life-Cycle Cost and Payback Period Results for Ice-Making Head, Water-Cooled, Small, Continuous (IMH-W-Small-C)**

Efficiency Level Number	Efficiency Level kWh/year	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings				Payback Period, Median Years
		Installed Cost 2010\$	Total Discounted Operating Cost 2010\$	LCC, All Customers 2010\$	Affected Customers' Average Savings 2010\$	% of Customers that Experience			
						Net Cost %	No Impact %	Net Benefit %	
1	8,344	6,951	18,906	25,857	0	NA	NA	NA	NA
2	7,512	6,959	18,333	25,292	NA	0	100	0	0.11
3	7,096	6,970	18,046	25,017	278	0	97	3	0.18
4	6,680	6,983	17,760	24,743	367	0	90	10	0.22
5	6,263	6,994	17,473	24,468	430	0	77	23	0.24
6	5,598	7,076	17,015	24,091	546	0	42	58	0.52
7	NA	NA	NA	NA	NA	NA	NA	NA	NA



**Figure 8B.2.23 Life-Cycle Cost Results for Ice-Making Head, Water-Cooled, Small, Continuous (IMH-W-Small-C)**

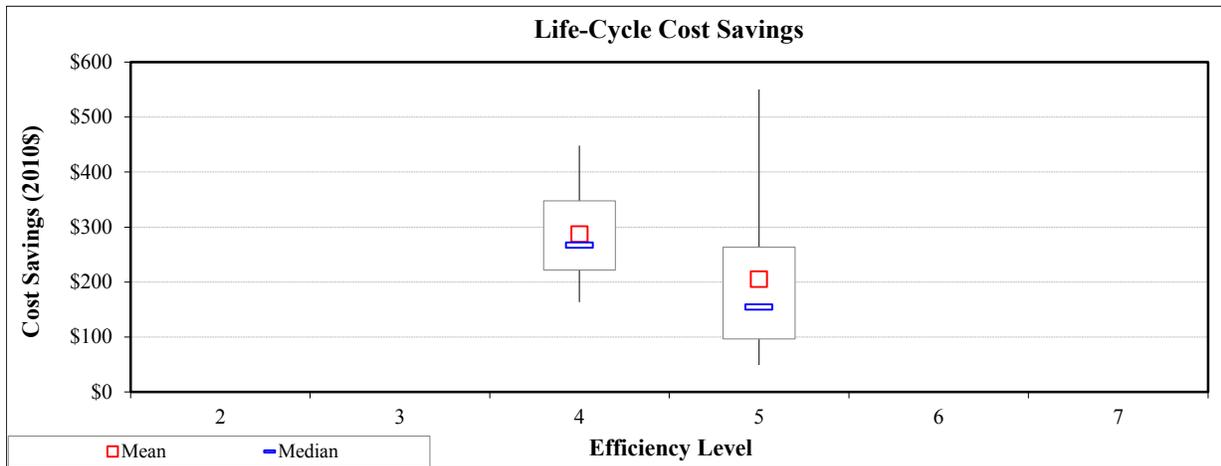


**Figure 8B.2.24 Payback Period Results for Ice-Making Head, Water-Cooled, Small, Continuous (IMH-W-Small-C)**

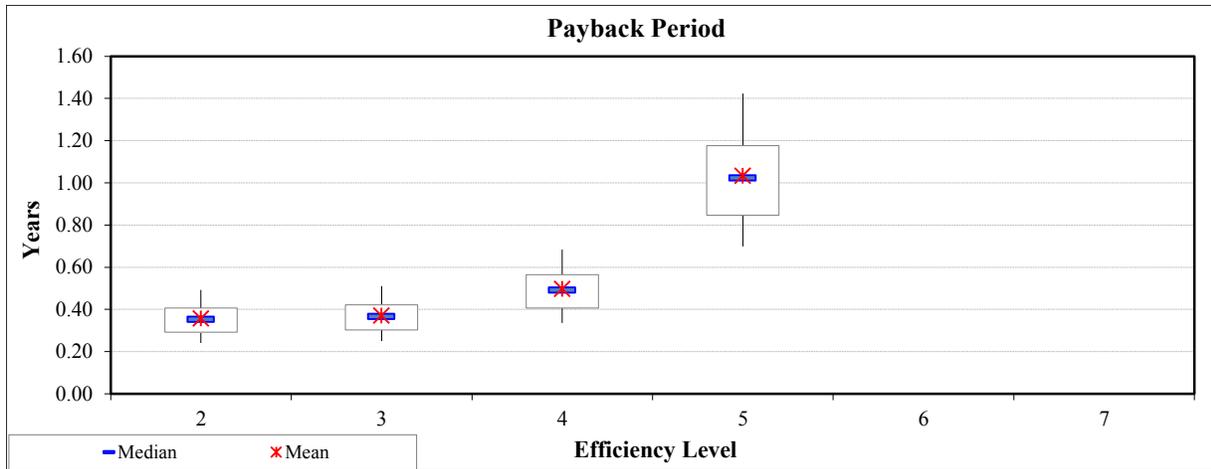
**8B.2.13 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR ICE-MAKING HEAD, WATER-COOLED, LARGE, CONTINUOUS (IMH-W-LARGE-C)**

**Table 8B.2.13 Life-Cycle Cost and Payback Period Results for Ice-Making Head, Water-Cooled, Large, Continuous (IMH-W-Large-C)**

Efficiency Level Number	Efficiency Level kWh/year	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings				Payback Period, Median Years
		Installed Cost 2010\$	Total Discounted Operating Cost 2010\$	LCC, All Customers 2010\$	Affected Customers' Average Savings 2010\$	% of Customers that Experience			
						Net Cost %	No Impact %	Net Benefit %	
1	9,329	7,904	22,573	30,477	0	NA	NA	NA	NA
2	8,399	7,933	21,932	29,865	NA	0	100	0	0.35
3	7,933	7,949	21,612	29,561	NA	0	100	0	0.37
4	7,468	7,984	21,292	29,276	287	0	94	6	0.49
5	7,096	8,104	21,035	29,140	205	0	75	25	1.02
6	NA	NA	NA	NA	NA	NA	NA	NA	NA
7	NA	NA	NA	NA	NA	NA	NA	NA	NA



**Figure 8B.2.25 Life-Cycle Cost Results for Ice-Making Head, Water-Cooled, Large, Continuous (IMH-W-Large-C)**

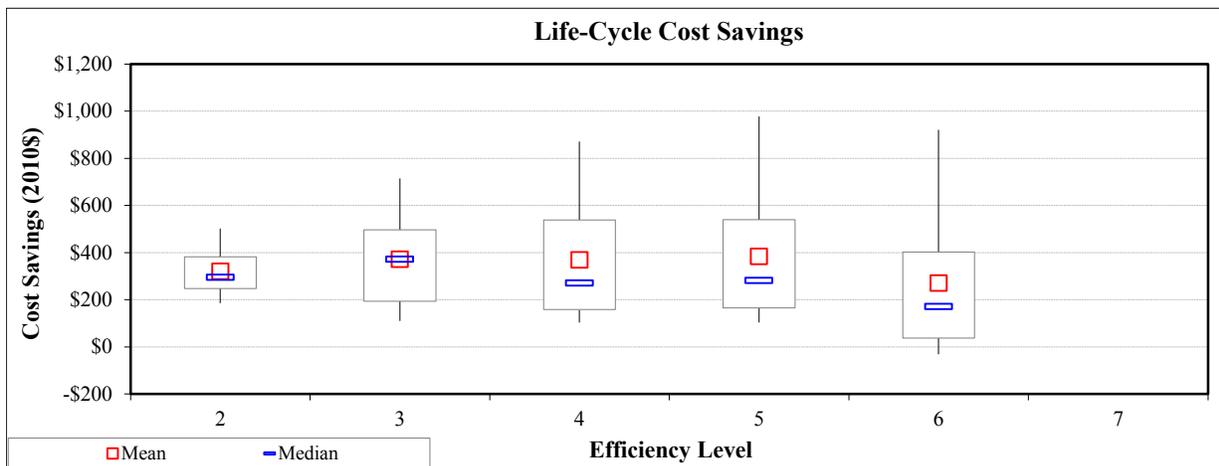


**Figure 8B.2.26 Payback Period Results for Ice-Making Head, Water-Cooled, Large, Continuous (IMH-W-Large-C)**

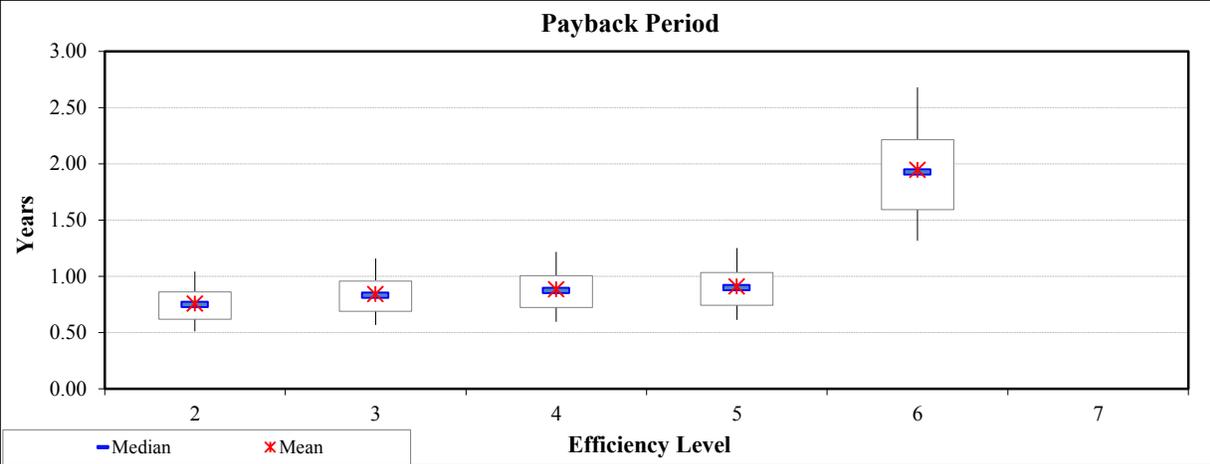
**8B.2.14 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR ICE-MAKING HEAD, AIR-COOLED, SMALL, CONTINUOUS (IMH-A-SMALL-C)**

**Table 8B.2.14 Life-Cycle Cost and Payback Period Results for Ice-Making Head, Air-Cooled, Small, Continuous (IMH-A-Small-C)**

Efficiency Level Number	Efficiency Level kWh/year	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings				Payback Period, Median Years
		Installed Cost 2010\$	Total Discounted Operating Cost 2010\$	LCC, All Customers 2010\$	Affected Customers' Average Savings 2010\$	% of Customers that Experience			
						Net Cost %	No Impact %	Net Benefit %	
1	5,148	4,616	5,717	10,333	0	NA	NA	NA	NA
2	4,635	4,650	5,364	10,014	320	0	96	4	0.75
3	4,379	4,672	5,188	9,860	371	0	94	6	0.83
4	4,122	4,694	5,011	9,706	368	0	90	10	0.87
5	3,866	4,717	4,835	9,552	383	0	84	16	0.90
6	3,610	4,875	4,658	9,534	270	3	76	20	1.93
7	NA	NA	NA	NA	NA	NA	NA	NA	NA



**Figure 8B.2.27 Life-Cycle Cost Results for Ice-Making Head, Air-Cooled, Small, Continuous (IMH-A-Small-C)**

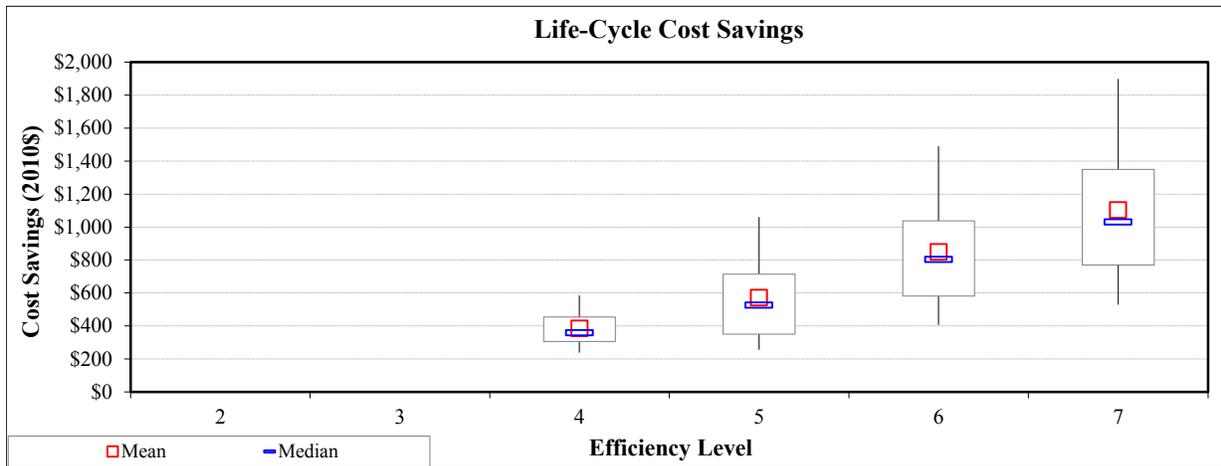


**Figure 8B.2.28 Payback Period Results for Ice-Making Head, Air-Cooled, Small, Continuous (IMH-A-Small-C)**

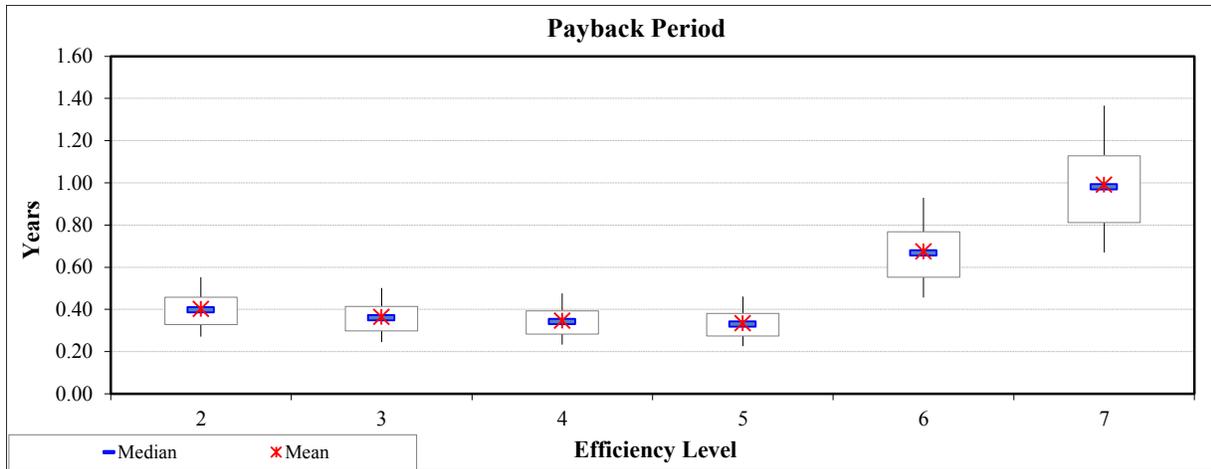
**8B.2.15 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR ICE-MAKING HEAD, AIR-COOLED, LARGE, CONTINUOUS (IMH-A-LARGE-C)**

**Table 8B.2.15 Life-Cycle Cost and Payback Period Results for Ice-Making Head, Air-Cooled, Large, Continuous (IMH-A-Large-C)**

Efficiency Level Number	Efficiency Level kWh/year	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings				Payback Period, Median Years
		Installed Cost 2010\$	Total Discounted Operating Cost 2010\$	LCC, All Customers 2010\$	Affected Customers' Average Savings 2010\$	% of Customers that Experience			
						Net Cost %	No Impact %	Net Benefit %	
1	11,519	7,904	12,256	20,161	0	NA	NA	NA	NA
2	10,370	7,944	11,465	19,409	NA	0	100	0	0.40
3	9,795	7,959	11,069	19,028	NA	0	100	0	0.36
4	9,220	7,973	10,674	18,647	384	0	91	9	0.34
5	8,645	7,988	10,278	18,265	570	0	82	18	0.33
6	8,070	8,106	9,882	17,988	849	0	82	18	0.67
7	7,495	8,250	9,486	17,736	1102	0	82	18	0.98



**Figure 8B.2.29 Life-Cycle Cost Results for Ice-Making Head, Air-Cooled, Large, Continuous (IMH-A-Large-C)**

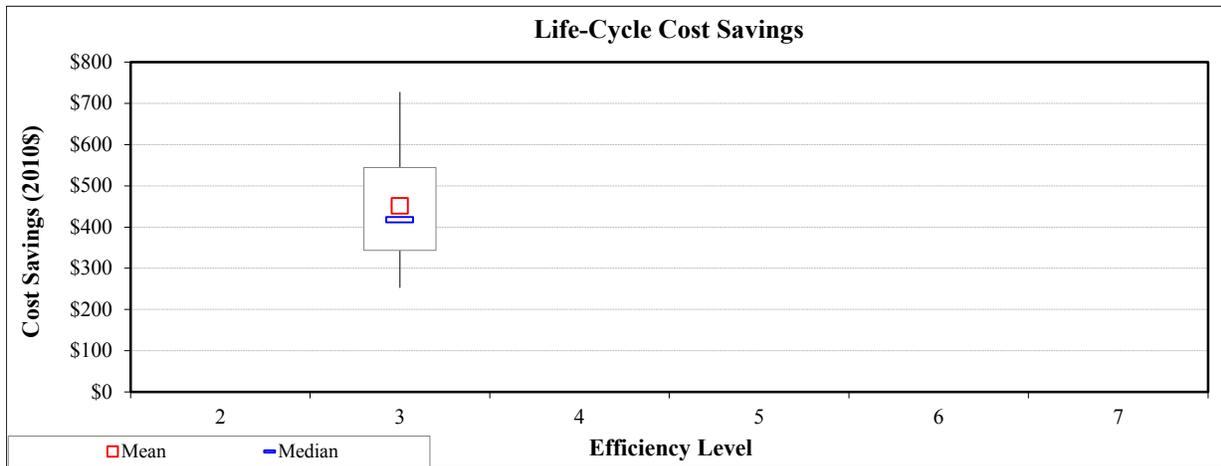


**Figure 8B.2.30 Payback Period Results for Ice-Making Head, Air-Cooled, Large, Continuous (IMH-A-Large-C)**

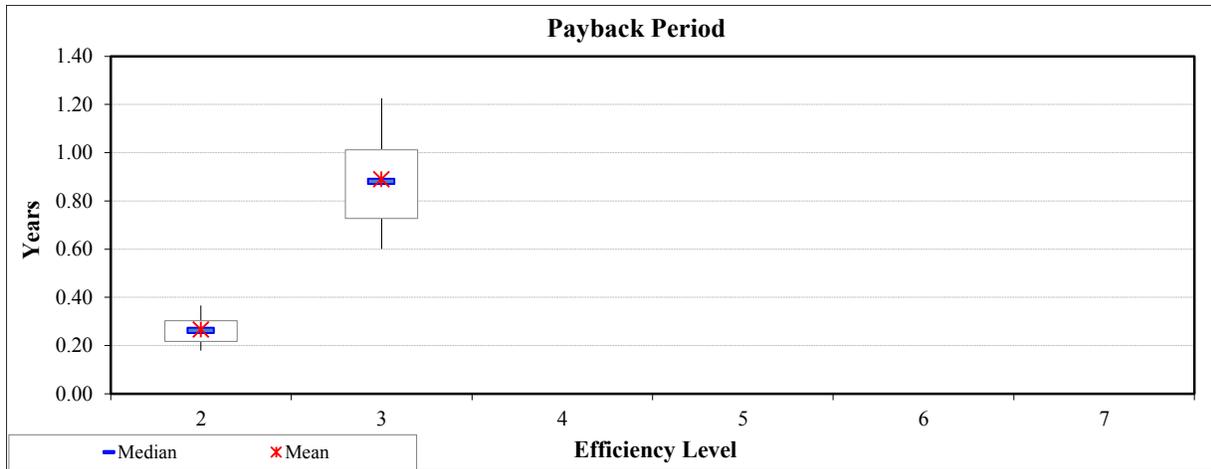
**8B.2.16 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR REMOTE CONDENSING UNIT, SMALL, CONTINUOUS (RCU-SMALL-C)**

**Table 8B.2.16 Life-Cycle Cost and Payback Period Results for Remote Condensing Unit, Small, Continuous (RCU-Small-C)**

Efficiency Level Number	Efficiency Level <i>kWh/year</i>	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings				Payback Period, Median <i>Years</i>
		Installed Cost <i>2010\$</i>	Total Discounted Operating Cost <i>2010\$</i>	LCC, All Customers <i>2010\$</i>	Affected Customers' Average Savings <i>2010\$</i>	% of Customers that Experience			
						Net Cost <i>%</i>	No Impact <i>%</i>	Net Benefit <i>%</i>	
1	8,581	7,728	9,779	17,508	0	NA	NA	NA	NA
2	7,956	7,743	9,349	17,092	NA	0	100	0	0.26
3	7,169	7,837	8,807	16,644	451	0	87	13	0.88
4	NA	NA	NA	NA	NA	NA	NA	NA	NA
5	NA	NA	NA	NA	NA	NA	NA	NA	NA
6	NA	NA	NA	NA	NA	NA	NA	NA	NA
7	NA	NA	NA	NA	NA	NA	NA	NA	NA



**Figure 8B.2.31 Life-Cycle Cost Results for Remote Condensing Unit, Small, Continuous (RCU-Small-C)**

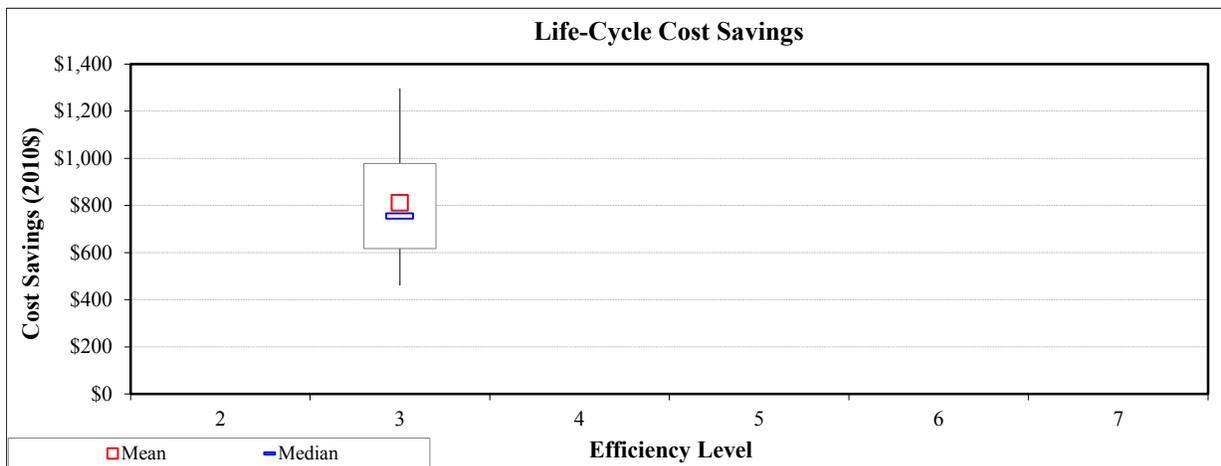


**Figure 8B.2.32 Payback Period Results for Remote Condensing Unit, Small, Continuous (RCU-Small-C)**

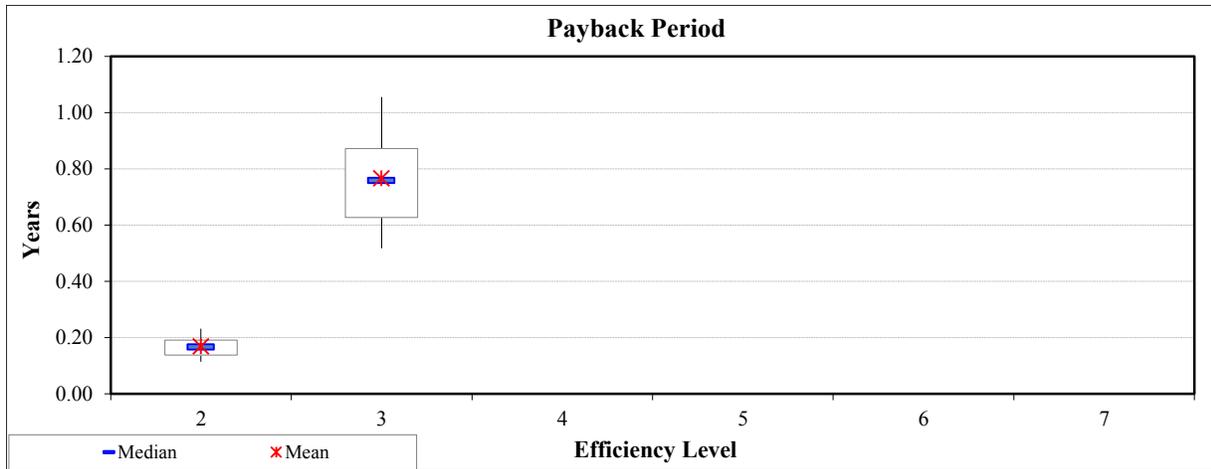
**8B.2.17 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR REMOTE CONDENSING UNIT, LARGE, CONTINUOUS (RCU-LARGE-C)**

**Table 8B.2.17 Life-Cycle Cost and Payback Period Results for Remote Condensing Unit, Large, Continuous (RCU-Large-C)**

Efficiency Level Number	Efficiency Level <i>kWh/year</i>	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings				Payback Period, Median <i>Years</i>
		Installed Cost <i>2010\$</i>	Total Discounted Operating Cost <i>2010\$</i>	LCC, All Customers <i>2010\$</i>	Affected Customers' Average Savings <i>2010\$</i>	% of Customers that Experience			
						Net Cost <i>%</i>	No Impact <i>%</i>	Net Benefit <i>%</i>	
1	15,078	11,543	16,749	28,292	0	NA	NA	NA	NA
2	13,979	11,559	15,993	27,551	NA	0	100	0	0.17
3	12,594	11,708	15,039	26,747	811	0	85	15	0.76
4	NA	NA	NA	NA	NA	NA	NA	NA	NA
5	NA	NA	NA	NA	NA	NA	NA	NA	NA
6	NA	NA	NA	NA	NA	NA	NA	NA	NA
7	NA	NA	NA	NA	NA	NA	NA	NA	NA



**Figure 8B.2.33 Life-Cycle Cost Results for Remote Condensing Unit, Large, Continuous (RCU-Large-C)**

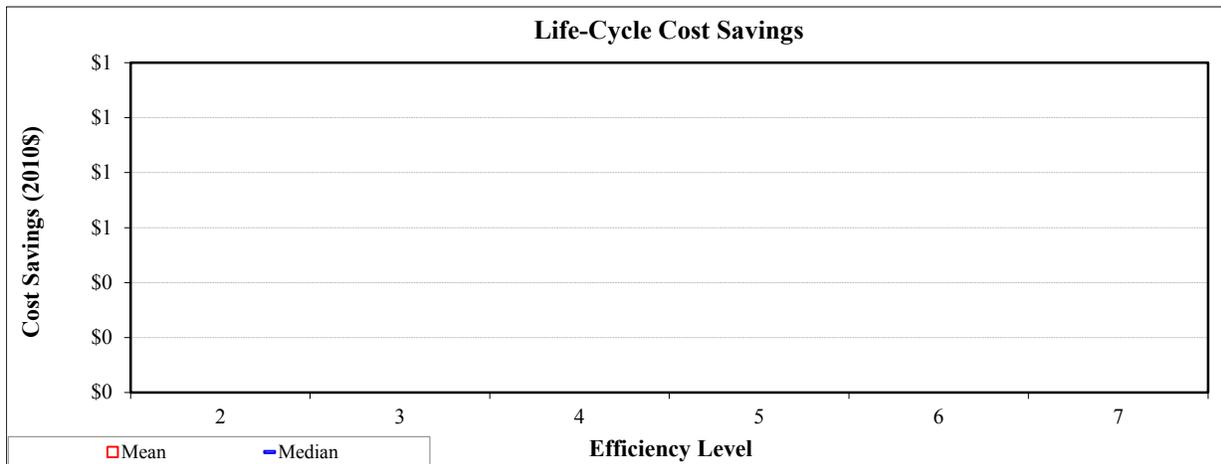


**Figure 8B.2.34 Payback Period Results for Remote Condensing Unit, Large, Continuous (RCU-Large-C)**

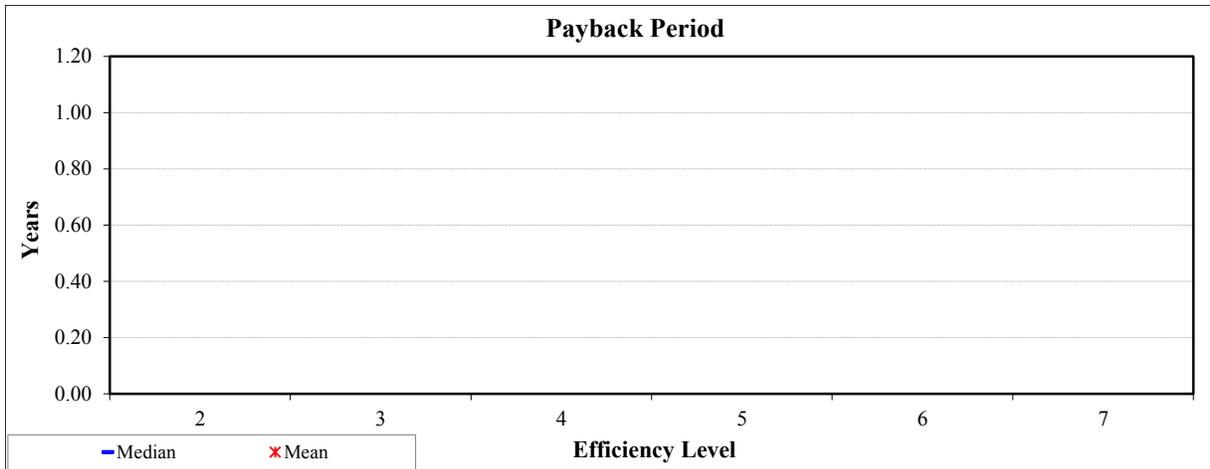
**8B.2.18 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR SELF-CONTAINED UNIT, WATER-COOLED, SMALL, CONTINUOUS (SCU-W-SMALL-C)**

**Table 8B.2.18 Life-Cycle Cost and Payback Period Results for Self-Contained Unit, Water-Cooled, Small, Continuous (SCU-W-Small-C)**

Efficiency Level Number	Efficiency Level <i>kWh/year</i>	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings				Payback Period, Median <i>Years</i>
		Installed Cost <i>2010\$</i>	Total Discounted Operating Cost <i>2010\$</i>	LCC, All Customers <i>2010\$</i>	Affected Customers' Average Savings <i>2010\$</i>	% of Customers that Experience			
						Net Cost <i>%</i>	No Impact <i>%</i>	Net Benefit <i>%</i>	
1	NA	0	#VALUE!	NA	0	NA	NA	NA	NA
2	NA	NA	NA	NA	NA	NA	NA	NA	NA
3	NA	NA	NA	NA	NA	NA	NA	NA	NA
4	NA	NA	NA	NA	NA	NA	NA	NA	NA
5	NA	NA	NA	NA	NA	NA	NA	NA	NA
6	NA	NA	NA	NA	NA	NA	NA	NA	NA
7	NA	NA	NA	NA	NA	NA	NA	NA	NA



**Figure 8B.2.35 Life-Cycle Cost Results for Self-Contained Unit, Water-Cooled, Small, Continuous (SCU-W-Small-C)**

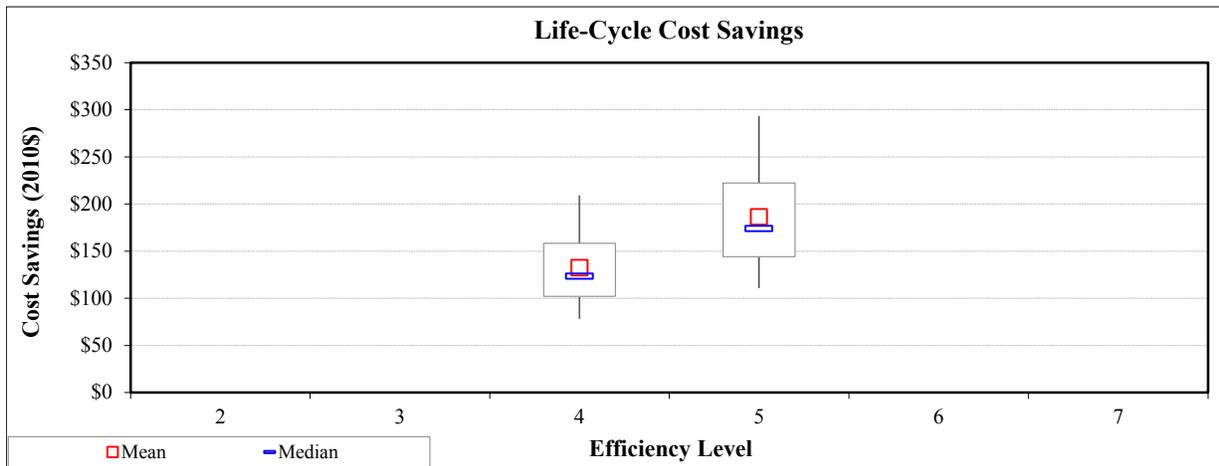


**Figure 8B.2.36 Payback Period Results for Self-Contained Unit, Water-Cooled, Small, Continuous (SCU-W-Small-C)**

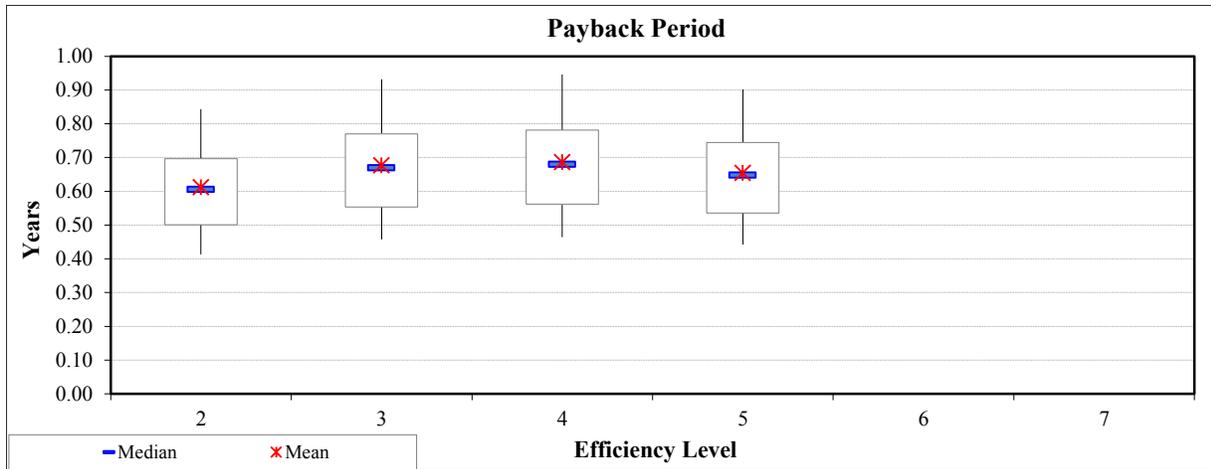
**8B.2.19 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR SELF-CONTAINED UNIT, WATER-COOLED, LARGE, CONTINUOUS (SCU-W-LARGE-C)**

**Table 8B.2.19 Life-Cycle Cost and Payback Period Results for Self-Contained Unit, Water-Cooled, Large, Continuous (SCU-W-Large-C)**

Efficiency Level Number	Efficiency Level kWh/year	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings				Payback Period, Median Years
		Installed Cost 2010\$	Total Discounted Operating Cost 2010\$	LCC, All Customers 2010\$	Affected Customers' Average Savings 2010\$	% of Customers that Experience			
						Net Cost %	No Impact %	Net Benefit %	
1	3,471	4,499	8,052	12,551	0	NA	NA	NA	NA
2	3,350	4,505	7,969	12,474	NA	0	100	0	0.61
3	3,143	4,518	7,827	12,344	NA	0	100	0	0.67
4	2,933	4,531	7,682	12,212	132	0	23	77	0.68
5	2,850	4,534	7,625	12,158	186	0	23	77	0.65
6	NA	NA	NA	NA	NA	NA	NA	NA	NA
7	NA	NA	NA	NA	NA	NA	NA	NA	NA



**Figure 8B.2.37 Life-Cycle Cost Results for Self-Contained Unit, Water-Cooled, Large, Continuous (SCU-W-Large-C)**

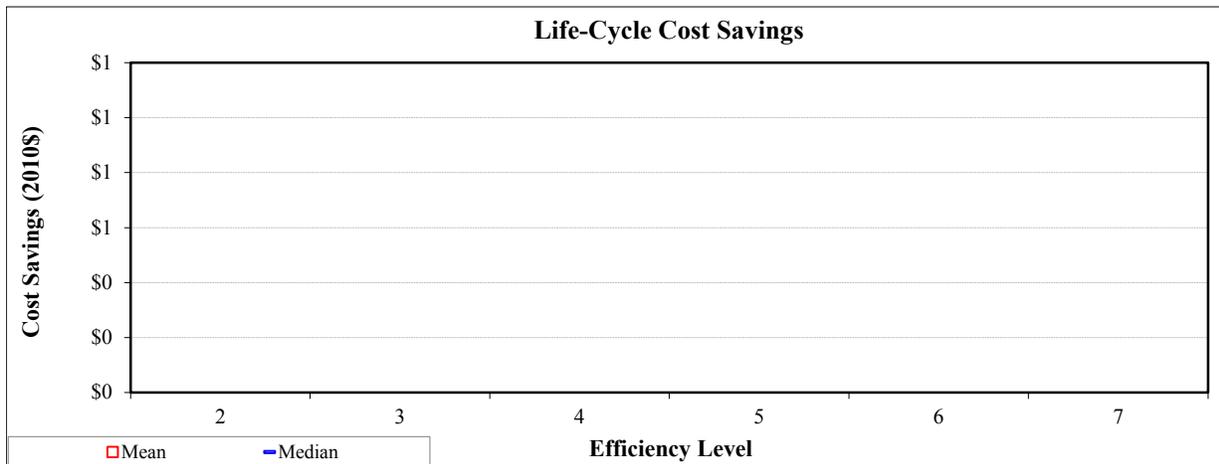


**Figure 8B.2.38 Payback Period Results for Self-Contained Unit, Water-Cooled, Large, Continuous (SCU-W-Large-C)**

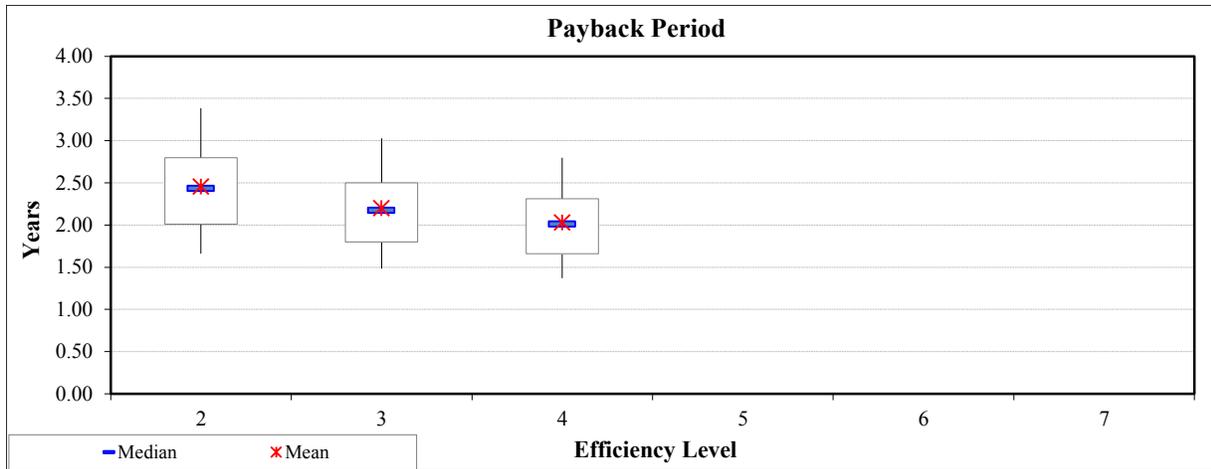
**8B.2.20 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR SELF-CONTAINED UNIT, AIR-COOLED, SMALL, CONTINUOUS (SCU-A-SMALL-C)**

**Table 8B.2.20 Life-Cycle Cost and Payback Period Results for Self-Contained Unit, Air-Cooled, Small, Continuous (SCU-A-Small-C)**

Efficiency Level Number	Efficiency Level <i>kWh/year</i>	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings				Payback Period, Median <i>Years</i>
		Installed Cost <i>2010\$</i>	Total Discounted Operating Cost <i>2010\$</i>	LCC, All Customers <i>2010\$</i>	Affected Customers' Average Savings <i>2010\$</i>	% of Customers that Experience			
						Net Cost <i>%</i>	No Impact <i>%</i>	Net Benefit <i>%</i>	
1	2,600	4,474	3,651	8,125	0	NA	NA	NA	NA
2	2,419	4,513	3,526	8,039	NA	0	100	0	2.43
3	2,213	4,548	3,384	7,932	NA	0	100	0	2.18
4	2,136	4,556	3,331	7,887	NA	0	100	0	2.01
5	NA	NA	NA	NA	NA	NA	NA	NA	NA
6	NA	NA	NA	NA	NA	NA	NA	NA	NA
7	NA	NA	NA	NA	NA	NA	NA	NA	NA



**Figure 8B.2.39 Life-Cycle Cost Results for Self-Contained Unit, Air-Cooled, Small, Continuous (SCU-A-Small-C)**

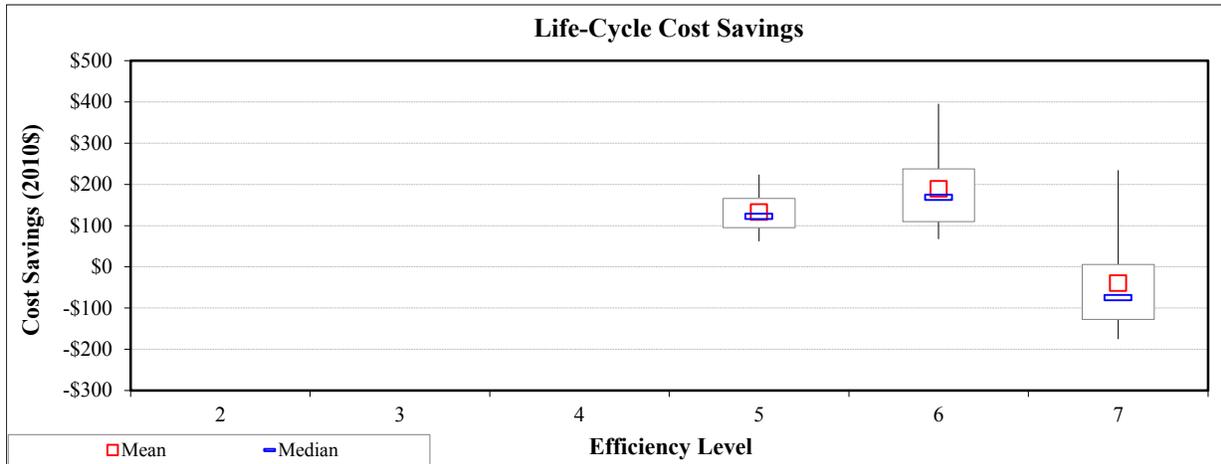


**Figure 8B.2.40 Payback Period Results for Self-Contained Unit, Air-Cooled, Small, Continuous (SCU-A-Small-C)**

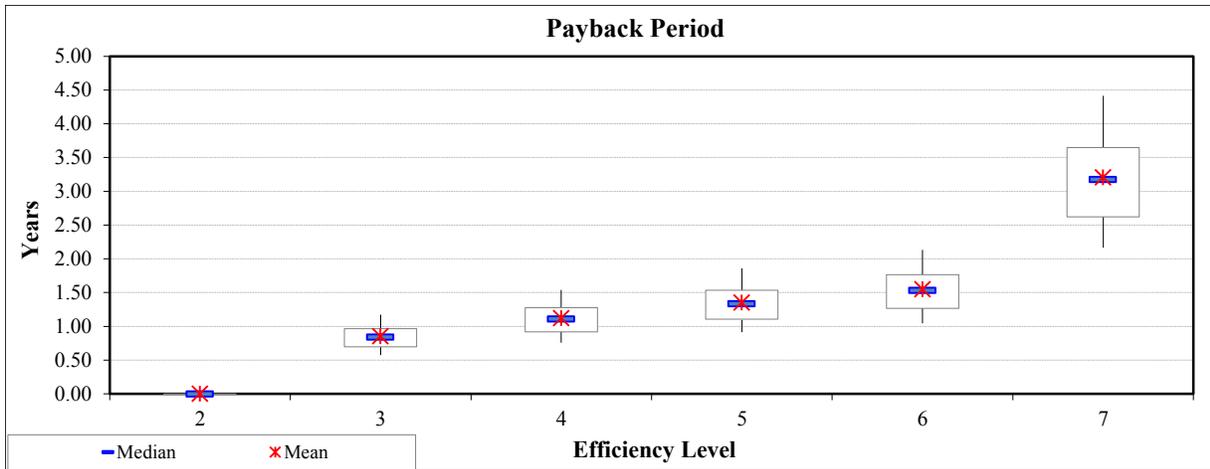
**8B.2.21 LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS FOR SELF-CONTAINED UNIT, AIR-COOLED, LARGE, CONTINUOUS (SCU-A-LARGE-C)**

**Table 8B.2.21 Life-Cycle Cost and Payback Period Results for Self-Contained Unit, Air-Cooled, Large, Continuous (SCU-A-Large-C)**

Efficiency Level Number	Efficiency Level <i>kWh/year</i>	Life-Cycle Cost, All Customers			Life-Cycle Cost Savings				Payback Period, Median <i>Years</i>
		Installed Cost <i>2010\$</i>	Total Discounted Operating Cost <i>2010\$</i>	LCC, All Customers <i>2010\$</i>	Affected Customers' Average Savings <i>2010\$</i>	% of Customers that Experience			
						Net Cost <i>%</i>	No Impact <i>%</i>	Net Benefit <i>%</i>	
1	5,387	4,499	5,824	10,322	0	NA	NA	NA	NA
2	5,012	4,499	5,565	10,064	NA	0	100	0	0.00
3	4,583	4,558	5,270	9,828	NA	0	100	0	0.84
4	4,314	4,603	5,085	9,688	NA	0	100	0	1.11
5	4,046	4,655	4,901	9,556	132	0	95	5	1.34
6	3,778	4,715	4,716	9,430	189	0	90	10	1.53
7	3,456	5,035	4,494	9,529	-40	25	66	9	3.17



**Figure 8B.2.41 Life-Cycle Cost Results for Self-Contained Unit, Air-Cooled, Large, Continuous (SCU-A-Large-C)**



**Figure 8B.2.42 Payback Period Results for Self-Contained Unit, Air-Cooled, Large, Continuous (SCU-A-Large-C)**