

Potential Paybacks from Retrofitting Alaska's Public Buildings: Appendix A

TABLE 1A: COST-EFFECTIVENESS BY USAGE TYPE									
Building Usage Type	N	Cost Effective Annual Energy Savings (\$)				Simple Payback (years)			
		MEDIAN	AVERAGE	MAX	MIN	MEDIAN	AVERAGE	MAX	MIN
All Usage Types	357	\$ 12,634	\$ 21,844	\$ 285,697	\$ 54	3.6	4.5	20.8	0.0
Athletic_Facility	14	\$ 22,171	\$ 30,586	\$ 117,138	\$ 787	4.3	4.3	10.5	1.0
Education - K - 12	156	\$ 21,117	\$ 33,350	\$ 285,697	\$ 1,218	4.8	5.3	20.8	0.4
Health Clinic	23	\$ 2,868	\$ 3,451	\$ 12,712	\$ 905	1.8	2.0	6.4	0.1
Hospital	1	\$ 12,169	\$ 12,169	\$ 12,169	\$ 12,169	9.2	9.2	9.2	9.2
Maintenance / Shop	19	\$ 14,777	\$ 19,039	\$ 43,036	\$ 243	2.2	2.4	5.1	0.3
Office	56	\$ 3,500	\$ 9,886	\$ 59,062	\$ 90	3.9	4.2	11.8	0.1
Other	2	\$ 3,810	\$ 3,810	\$ 6,660	\$ 961	10.6	10.6	12.6	8.7
Pool	3	\$ 33,020	\$ 51,333	\$ 92,191	\$ 28,786	2.7	3.0	3.9	2.5
Public_Assembly	13	\$ 10,363	\$ 18,794	\$ 119,652	\$ 896	3.6	3.5	7.8	0.5
Public_Order	36	\$ 5,115	\$ 7,456	\$ 35,079	\$ 930	3.7	4.3	12.8	0.0
Residential_Multi_Fam_5 _Plus_Units	3	\$ 7,467	\$ 13,538	\$ 30,303	\$ 2,844	3.1	3.8	5.8	2.6
Terminals (Airport, Bus, Harbor, Train)	1	\$ 54	\$ 54	\$ 54	\$ 54	4.7	4.7	4.7	4.7
Warehousing	6	\$ 7,901	\$ 9,050	\$ 20,970	\$ 1,258	3.4	5.2	11.3	1.2
Washeteria / Water Plant	24	\$ 6,570	\$ 12,217	\$ 75,175	\$ 766	2.1	3.9	17.5	0.3

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TABLE 1B: COST-EFFECTIVENESS BY USAGE TYPE													
Building Usage Type	N	Installed Cost of EE measures (\$)				Cost Eff Energy Savings / SF				% Energy Savings			
		MEDIAN	AVERAGE	MAX	MIN	MEDIAN	AVERAGE	MAX	MIN	MEDIAN	AVERAGE	MAX	MIN
All Usage Types	357	\$ 41,881	\$ 82,210	\$ 1,040,389	\$ 99	\$ 0.85	\$ 1.79	\$ 97.18	\$ 0.00	21%	22%	79%	0%
Athletic Facility	14	\$ 76,081	\$ 119,395	\$ 392,032	\$ 3,087	\$ 0.49	\$ 0.58	\$ 1.99	\$ 0.07	15%	18%	39%	2%
Education - K - 12	156	\$ 99,070	\$ 125,077	\$ 1,040,389	\$ 2,208	\$ 0.59	\$ 0.93	\$ 3.90	\$ 0.02	18%	19%	57%	1%
Health Clinic	23	\$ 5,600	\$ 5,940	\$ 20,652	\$ 505	\$ 1.37	\$ 1.80	\$ 7.33	\$ 0.43	24%	26%	60%	9%
Hospital	1	\$ 111,953	\$ 111,953	\$ 111,953	\$ 111,953	\$ 0.23	\$ 0.23	\$ 0.23	\$ 0.23	5%	5%	5%	5%
Maintenance / Shop	19	\$ 23,569	\$ 43,981	\$ 147,311	\$ 1,000	\$ 0.85	\$ 1.21	\$ 4.37	\$ 0.02	21%	20%	39%	1%
Office	56	\$ 18,897	\$ 38,411	\$ 158,940	\$ 275	\$ 1.23	\$ 1.43	\$ 5.10	\$ 0.01	26%	26%	56%	0%
Other	2	\$ 35,022	\$ 35,022	\$ 57,950	\$ 12,093	\$ 0.49	\$ 0.49	\$ 0.83	\$ 0.14	19%	19%	35%	4%
Pool	3	\$ 130,032	\$ 145,056	\$ 227,476	\$ 77,660	\$ 1.89	\$ 1.82	\$ 2.30	\$ 1.27	28%	35%	53%	23%
Public Assembly	13	\$ 30,540	\$ 93,964	\$ 742,550	\$ 410	\$ 0.88	\$ 1.31	\$ 3.61	\$ 0.33	29%	29%	40%	15%
Public Order	36	\$ 18,576	\$ 34,701	\$ 316,000	\$ 99	\$ 0.72	\$ 1.07	\$ 4.37	\$ 0.09	20%	22%	72%	2%
Residential_Multi_Fam_5 _Plus_Units	3	\$ 19,600	\$ 68,081	\$ 175,909	\$ 8,733	\$ 0.38	\$ 0.37	\$ 0.66	\$ 0.06	11%	13%	23%	6%
Terminals (Airport, Bus, Harbor, Train)	1	\$ 255	\$ 255	\$ 255	\$ 255	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	0%	0%	0%	0%
Warehousing	6	\$ 19,446	\$ 39,717	\$ 136,490	\$ 5,720	\$ 0.86	\$ 0.82	\$ 1.80	\$ 0.12	22%	22%	32%	11%
Washeteria / Water Plant	24	\$ 14,850	\$ 49,385	\$ 323,222	\$ 1,500	\$ 4.75	\$ 12.21	\$ 97.18	\$ 0.98	27%	33%	79%	11%

Potential Paybacks from Retrofitting Alaska's Public Buildings: Appendix A

TABLE 2A: COST-EFFECTIVENESS BY ANCSA REGION	N	Cost Effective Annual Energy Savings (\$)				Simple Payback (years)			
		MEDIAN	AVERAGE	MAX	MIN	MEDIAN	AVERAGE	MAX	MIN
Ahtna-Chugach	10	\$ 20,425	\$ 20,468	\$ 32,499	\$ 3,201	7.1	7.3	14.4	3.1
Aleut	14	\$ 17,049	\$ 19,704	\$ 74,720	\$ 858	3.0	3.3	5.3	1.2
Arctic Slope Regional Corporation	29	\$ 12,094	\$ 25,010	\$ 135,622	\$ 434	1.8	2.5	11.3	0.1
Bering Straits Native Corporation	18	\$ 22,539	\$ 28,716	\$ 98,288	\$ 1,559	1.9	2.4	9.0	0.6
Bristol Bay Native Corporation	11	\$ 15,945	\$ 29,130	\$ 86,370	\$ 4,316	3.9	7.5	20.8	2.0
Calista	84	\$ 3,513	\$ 14,842	\$ 285,697	\$ 385	2.5	3.1	17.5	0.1
Cook Inlet Regional (CIRI) Anchorage Borough only	49	\$ 19,174	\$ 30,308	\$ 182,189	\$ 2,259	5.3	5.3	12.4	0.4
Cook Inlet Regional (CIRI) outside Anchorage Borough	44	\$ 9,805	\$ 18,101	\$ 129,711	\$ 54	4.9	5.5	10.8	0.0
Doyon - Fairbanks North Star Borough only	30	\$ 17,481	\$ 19,276	\$ 69,256	\$ 1,553	7.1	7.3	12.3	1.9
Doyon - outside Fairbanks North Star Borough	47	\$ 15,411	\$ 24,321	\$ 227,366	\$ 1,167	3.0	3.7	14.5	0.6
Koniag	10	\$ 17,059	\$ 16,497	\$ 136,353	\$ 2,047	6.9	8.5	12.8	1.0
Nana Regional Corporation	2	N/A	\$ 71,910	N/A	N/A	N/A	1.8	N/A	N/A

Potential Paybacks from Retrofitting Alaska's Public Buildings: Appendix A

TABLE 2B: COST-EFFECTIVENESS BY ANCSA REGION		Installed Cost of EE measures (\$)				Cost Eff Energy Savings / SF				% Energy Savings			
ANCSA	N	MEDIAN	AVERAGE	MAX	MIN	MEDIAN	AVERAGE	MAX	MIN	MEDIAN	AVERAGE	MAX	MIN
Ahtna-Chugach	10	\$ 105,509	\$ 128,243	\$ 230,400	\$ 25,271	\$ 0.48	\$ 0.91	\$ 2.86	\$ 0.23	12%	19%	45%	5%
Aleut	14	\$ 24,485	\$ 51,510	\$ 243,127	\$ 1,600	\$ 1.15	\$ 1.16	\$ 2.34	\$ 0.35	27%	26%	47%	12%
Arctic Slope Regional Corporation	29	\$ 20,476	\$ 42,030	\$ 177,698	\$ 600	\$ 0.93	\$ 1.42	\$ 4.37	\$ 0.02	21%	23%	44%	3%
Bering Straits Native Corporation	18	\$ 44,624	\$ 63,374	\$ 323,222	\$ 1,930	\$ 1.66	\$ 2.51	\$ 17.66	\$ 0.56	25%	27%	75%	10%
Bristol Bay Native Corporation	11	\$ 107,400	\$ 160,131	\$ 476,411	\$ 15,820	\$ 1.24	\$ 1.46	\$ 6.76	\$ 0.48	21%	20%	39%	7%
Calista	84	\$ 9,085	\$ 32,387	\$ 328,659	\$ 275	\$ 2.00	\$ 4.36	\$ 97.18	\$ 0.33	26%	29%	79%	9%
Cook Inlet Regional (CIRI) Anchorage Borough only	49	\$ 77,660	\$ 148,880	\$ 1,040,389	\$ 2,208	\$ 0.34	\$ 0.60	\$ 3.23	\$ 0.04	16%	18%	53%	2%
Cook Inlet Regional (CIRI) outside Anchorage Borough	44	\$ 44,184	\$ 99,972	\$ 363,480	\$ 99	\$ 0.31	\$ 0.47	\$ 3.61	\$ 0.00	14%	14%	57%	0%
Doyon - Fairbanks North Star Borough only	30	\$ 132,187	\$ 123,783	\$ 392,032	\$ 4,629	\$ 0.34	\$ 0.37	\$ 1.11	\$ 0.10	15%	15%	30%	3%
Doyon - outside Fairbanks North Star Borough	47	\$ 41,500	\$ 64,966	\$ 368,139	\$ 805	\$ 0.94	\$ 1.27	\$ 4.72	\$ 0.10	25%	24%	55%	3%
Koniag	10	\$ 129,714	\$ 114,268	\$ 190,794	\$ 19,600	\$ 0.69	\$ 0.68	\$ 2.83	\$ 0.38	20%	21%	31%	11%
Nana Regional Corporation	2	N/A	\$ 80,217	N/A	N/A	N/A	\$ 1.74	N/A	N/A	N/A	20%	N/A	N/A

Potential Paybacks from Retrofitting Alaska's Public Buildings: Appendix A

	# of Records	Current Annual Energy Costs AVG (\$)	Post-Retrofit Annual Energy Costs AVG (\$)	Cost Effective Annual Energy Savings AVG (\$)	Energy Savings AVG %	Installed Cost of EE measures AVG (\$)	Annual PMT	Annual Cost Reduction
Data Sources and Assumptions	<i>Number of energy audits with suitable data</i>	<i>Costs from 2011; typically 2 or 3 year averages</i>	<i>Estimated annual energy costs if audited buildings perform all retrofits with a savings-to-investment ratio greater than 1</i>	<i>Estimated annual savings if audited buildings perform all retrofits with a savings-to-investment ratio greater than 1</i>	<i>Estimated percentage energy savings from performing cost effective retrofits</i>	<i>Auditor estimated costs to perform energy efficiency retrofits</i>	<i>Annual loan payment if retrofit measures are paid for using AHFC loan, assuming 15 year timeline and 3.75% interest. Note that actual terms will depend on simple payback of the project and the business decision of the facility owner.</i>	<i>The annual energy savings minus the annual loan payment.</i>
Retrofits with negative cash flow:	<i>Note that there are a few retrofit projects with a negative annual cost reduction, highlighted in red. If these projects were approved for financing by AHFC, the loan term would likely be extended to create a positive cash flow.</i>							

Statewide	# of Records	Current Annual Energy Costs AVG (\$)	Post-Retrofit Annual Energy Costs AVG (\$)	Cost Effective Annual Energy Savings AVG (\$)	Energy Savings AVG %	Installed Cost of EE measures AVG (\$)	Simple Payback AVG (years)	Annual PMT	Annual Cost Reduction
Building Audits Extracted From ARIS	348	\$ 107,012	\$ 85,169	\$ 21,844	22%	\$ 82,210	4.5	\$ 7,174	\$ 14,669

ANCSA	# of Records	Current Annual Energy Costs AVG (\$)	Post-Retrofit Annual Energy Costs AVG (\$)	Cost Effective Annual Energy Savings AVG (\$)	Energy Savings AVG %	Installed Cost of EE measures AVG (\$)	Simple Payback AVG (years)	Annual PMT	Annual Cost Reduction
Ahtna-Chugach	10	\$ 153,302	\$ 132,835	\$ 20,468	19%	\$ 128,243	7.3	\$ 11,191	\$ 9,276

Building Name	City	Current Annual Energy Costs (\$)	Post-Retrofit Annual Energy Costs (\$)	Cost Effective Annual Energy Savings (\$)	Energy Savings %	Installed Cost of EE measure (\$)	Simple Payback (years)	Annual PMT	Annual Cost Reduction (\$)
Copper Center School	Copper Center	\$ 33,782	\$ 25,951	\$ 7,831	23%	\$ 41,958	5.4	\$ 3,662	\$ 4,169
Cordova Jr/Sr High School	Cordova	\$ 165,712	\$ 130,343	\$ 35,369	21%	\$ 190,108	5.4	\$ 16,590	\$ 18,779
Cordova CMC	Cordova	\$ 221,969	\$ 209,800	\$ 12,169	5%	\$ 111,953	9.2	\$ 9,770	\$ 2,399
English Bay School	English Bay/Nanwalek	\$ 64,619	\$ 58,005	\$ 6,614	10%	\$ 95,406	14.4	\$ 8,326	\$ (1,711)
Glennallen K-12	Glennallen	\$ 319,819	\$ 287,320	\$ 32,499	10%	\$ 230,400	7.1	\$ 20,106	\$ 12,392
CRSD District Office	Glennallen	\$ 59,634	\$ 51,133	\$ 8,501	14%	\$ 84,971	10.0	\$ 7,415	\$ 1,085
Kenny Lake School	Kenny Lake	\$ 118,736	\$ 94,503	\$ 24,233	20%	\$ 121,400	5.0	\$ 10,594	\$ 13,639
Mentasta Lake School	Mentasta Lake	\$ 86,527	\$ 57,180	\$ 29,347	34%	\$ 99,064	3.4	\$ 8,645	\$ 20,702
Seward High School	Seward	\$ 409,006	\$ 384,903	\$ 24,103	6%	\$ 172,084	7.1	\$ 15,017	\$ 9,086
Slana K-12	Slana	\$ 53,219	\$ 29,209	\$ 24,010	45%	\$ 135,087	5.6	\$ 11,789	\$ 12,221

ANCSA	# of Records	Current Annual Energy Costs AVG (\$)	Post-Retrofit Annual Energy Costs AVG (\$)	Cost Effective Annual Energy Savings AVG (\$)	Energy Savings AVG %	Installed Cost of EE measures AVG (\$)	Simple Payback AVG (years)	Annual PMT	Annual Cost Reduction
Aleut	14	\$ 72,668	\$ 52,965	\$ 19,704	26%	\$ 51,510	3.3	\$ 4,495	\$ 15,208

Building Name	City	Current Annual Energy Costs (\$)	Post-Retrofit Annual Energy Costs (\$)	Cost Effective Annual Energy Savings (\$)	Energy Savings %	Installed Cost of EE measure (\$)	Simple Payback (years)	Annual PMT	Annual Cost Reduction (\$)
Cold Bay School	Cold Bay	\$ 60,032	\$ 43,192	\$ 16,840	28%	\$ 52,284	3.1	\$ 4,563	\$ 12,277
False Pass School	False Pass	\$ 31,511	\$ 28,310	\$ 3,201	10%	\$ 25,271	7.9	\$ 2,205	\$ 996

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False Pass City Hall	False Pass	\$ 6,136	\$ 5,278	\$ 858	14%	\$ 1,600	1.9	\$ 140	\$ 718
False Pass Public Safety Building	False Pass	\$ 19,275	\$ 14,094	\$ 5,181	27%	\$ 21,286	4.1	\$ 1,858	\$ 3,324
King Cove K-12 School	King Cove	\$ 151,560	\$ 126,838	\$ 24,722	16%	\$ 32,852	1.3	\$ 2,867	\$ 21,855
Saint Paul School	Saint Paul	\$ 160,024	\$ 85,304	\$ 74,720	47%	\$ 243,127	3.3	\$ 21,217	\$ 53,503
Machine Shop	Saint Paul	\$ 75,512	\$ 54,049	\$ 21,463	28%	\$ 43,319	2.0	\$ 3,780	\$ 17,683
Public Works- Maintenance Building	Saint Paul	\$ 48,777	\$ 35,648	\$ 13,129	27%	\$ 23,569	1.8	\$ 2,057	\$ 11,072
Pribilof Island School District Office	Saint Paul	\$ 12,084	\$ 8,183	\$ 3,901	32%	\$ 18,897	4.8	\$ 1,649	\$ 2,252
St. Paul City Hall	Saint Paul	\$ 81,727	\$ 56,204	\$ 25,523	31%	\$ 85,810	3.4	\$ 7,488	\$ 18,035
Fire Station	Saint Paul	\$ 14,831	\$ 11,604	\$ 3,228	22%	\$ 14,335	4.4	\$ 1,251	\$ 1,977
Polar Star	Saint Paul	\$ 65,996	\$ 45,026	\$ 20,970	32%	\$ 24,693	1.2	\$ 2,155	\$ 18,815
Sand Point School	Sand Point	\$ 272,730	\$ 215,208	\$ 57,522	21%	\$ 109,819	1.9	\$ 9,584	\$ 47,939
Aleutians East Borough District Office	Sand Point	\$ 17,162	\$ 12,569	\$ 4,593	27%	\$ 24,277	5.3	\$ 2,119	\$ 2,474

ANCSA	# of Records	Current Annual Energy Costs AVG (\$)	Post-Retrofit Annual Energy Costs AVG (\$)	Cost Effective Annual Energy Savings AVG (\$)	Energy Savings AVG %	Installed Cost of EE measures AVG (\$)	Simple Payback AVG (years)	Annual PMT	Annual Cost Reduction
Arctic Slope Regional Corporation	29	\$ 109,845	\$ 84,835	\$ 25,010	23%	\$ 42,030	2.5	\$ 3,668	\$ 21,342

Building Name	City	Current Annual Energy Costs (\$)	Post-Retrofit Annual Energy Costs (\$)	Cost Effective Annual Energy Savings (\$)	Energy Savings %	Installed Cost of EE measure (\$)	Simple Payback (years)	Annual PMT	Annual Cost Reduction (\$)
Nunamuit School	Anaktuvuk Pass	\$ 213,172	\$ 149,974	\$ 63,198	30%	\$ 188,312	3.0	\$ 16,433	\$ 46,765
Anaktuvuk Pass Fire Department	Anaktuvuk Pass	\$ 26,452	\$ 23,244	\$ 3,208	12%	\$ 9,600	3.0	\$ 838	\$ 2,370
Meade River School	Atqasuk	\$ 333,927	\$ 198,305	\$ 135,622	41%	\$ 177,698	1.3	\$ 15,507	\$ 120,115
USDW Building (Public Works Building)	Atqasuk	\$ 134,713	\$ 97,899	\$ 36,814	30%	\$ 73,057	2.0	\$ 6,375	\$ 30,439
Atqasuk Fire Department	Atqasuk	\$ 31,373	\$ 21,654	\$ 9,718	31%	\$ 17,815	1.8	\$ 1,555	\$ 8,164
Barrow Shop III/TDS Facility	Barrow	\$ 177,075	\$ 164,484	\$ 12,590	7%	\$ 35,901	2.9	\$ 3,133	\$ 9,457
DMS Equipment Storage Shop Building	Barrow	\$ 17,130	\$ 13,660	\$ 3,470	20%	\$ 9,110	2.6	\$ 795	\$ 2,675
Heavy Equipment Shop Building	Barrow	\$ 36,226	\$ 30,752	\$ 5,474	15%	\$ 9,710	1.8	\$ 847	\$ 4,626
NSB Bus Storage Facility	Barrow	\$ 13,457	\$ 9,929	\$ 3,528	26%	\$ 2,626	0.7	\$ 229	\$ 3,299
NSB Public Works Building	Barrow	\$ 33,989	\$ 23,396	\$ 10,593	31%	\$ 600	0.1	\$ 52	\$ 10,541
Inupiat Heritage Center	Barrow	\$ 52,756	\$ 42,270	\$ 10,487	20%	\$ 9,951	0.9	\$ 868	\$ 9,618
Barrow Fire Department	Barrow	\$ 12,997	\$ 7,304	\$ 5,693	44%	\$ 20,476	3.6	\$ 1,787	\$ 3,906
NSB Fire Department	Barrow	\$ 21,505	\$ 18,935	\$ 2,570	12%	\$ 8,680	3.4	\$ 757	\$ 1,813
NSB Search and Rescue Building	Barrow	\$ 67,152	\$ 54,404	\$ 12,748	19%	\$ 14,050	1.1	\$ 1,226	\$ 11,522
Barrow Shipping and receiving	Barrow	\$ 24,830	\$ 22,217	\$ 2,613	11%	\$ 5,720	2.2	\$ 499	\$ 2,113
C Street Shops Warehouse	Barrow	\$ 3,957	\$ 2,699	\$ 1,258	32%	\$ 14,200	11.3	\$ 1,239	\$ 18
Harold Kaveolook School	Kaktovik	\$ 352,033	\$ 274,547	\$ 77,486	22%	\$ 156,158	2.0	\$ 13,627	\$ 63,859
NSB Public Safety	Kaktovik	\$ 24,443	\$ 14,069	\$ 10,374	42%	\$ 56,416	5.4	\$ 4,923	\$ 5,451

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Public Works Warm Storage/Vehicle Maintenance Facility	Kaktovik	\$ 70,301	\$ 58,207	\$ 12,094	17%	\$ 45,885	3.8	\$ 4,004	\$ 8,089
Trapper School	Nuiqsut	\$ 212,727	\$ 164,575	\$ 48,152	23%	\$ 50,520	1.0	\$ 4,409	\$ 43,743
Maintenance and Operations Shops	Nuiqsut	\$ 16,091	\$ 15,656	\$ 434	3%	\$ 2,200	5.1	\$ 192	\$ 242
USDW Building (Public Works Building)	Point Hope	\$ 134,713	\$ 97,899	\$ 36,814	30%	\$ 73,057	2.0	\$ 6,375	\$ 30,439
Point Hope Fire Department	Point Hope	\$ 34,936	\$ 24,338	\$ 10,598	30%	\$ 19,337	1.8	\$ 1,687	\$ 8,910
Cully School aka Kali School	Point Lay	\$ 193,037	\$ 176,468	\$ 16,569	9%	\$ 20,710	1.2	\$ 1,807	\$ 14,762
Point Lay Warm Storage	Point Lay	\$ 161,748	\$ 125,519	\$ 36,229	22%	\$ 11,306	0.3	\$ 987	\$ 35,242
Point Lay Fire Department	Point Lay	\$ 43,274	\$ 30,378	\$ 12,896	30%	\$ 19,337	1.5	\$ 1,687	\$ 11,209
Shishmaref School	Shishmaref	\$ 209,866	\$ 176,367	\$ 33,499	16%	\$ 40,989	1.2	\$ 3,577	\$ 29,922
Wainwright Alak School	Wainwright	\$ 504,290	\$ 399,975	\$ 104,315	21%	\$ 100,886	1.0	\$ 8,804	\$ 95,511
Wainwright Fire Department	Wainwright	\$ 27,326	\$ 21,081	\$ 6,245	23%	\$ 24,560	3.9	\$ 2,143	\$ 4,102

ANCSA	# of Records	Current Annual Energy Costs AVG (\$)	Post-Retrofit Annual Energy Costs AVG (\$)	Cost Effective Annual Energy Savings AVG (\$)	Energy Savings AVG %	Installed Cost of EE measures AVG (\$)	Simple Payback AVG (years)	Annual PMT	Annual Cost Reduction
Bering Straits Native Corporation	18	\$ 129,379	\$ 100,662	\$ 28,716	27%	\$ 63,374	2.4	\$ 5,530	\$ 23,186

Building Name	City	Current Annual Energy Costs (\$)	Post-Retrofit Annual Energy Costs (\$)	Cost Effective Annual Energy Savings (\$)	Energy Savings %	Installed Cost of EE measure (\$)	Simple Payback (years)	Annual PMT	Annual Cost Reduction (\$)
Brevig Mission K-12 School	Brevig Mission	\$ 185,741	\$ 159,366	\$ 26,374	14%	\$ 48,604	1.8	\$ 4,242	\$ 22,133
Elim Aniguiin School	Elim	\$ 182,177	\$ 166,727	\$ 15,450	8%	\$ 45,503	2.9	\$ 3,971	\$ 11,479
John Apangalook School	Gambell	\$ 276,580	\$ 178,292	\$ 98,288	36%	\$ 69,603	0.7	\$ 6,074	\$ 92,214
Koyuk-Malemute School	Koyuk	\$ 315,700	\$ 270,192	\$ 45,507	14%	\$ 28,247	0.6	\$ 2,465	\$ 43,042
Nome Community Recreation Center	Nome	\$ 133,012	\$ 109,335	\$ 23,677	18%	\$ 23,344	1.0	\$ 2,037	\$ 21,640
Nome Public Works	Nome	\$ 58,796	\$ 44,020	\$ 14,777	25%	\$ 20,841	1.4	\$ 1,819	\$ 12,958
Nome City Hall & Senior Center	Nome	\$ 101,109	\$ 75,643	\$ 25,466	25%	\$ 49,840	2.0	\$ 4,349	\$ 21,116
Icy View Fire Station	Nome	\$ 11,371	\$ 8,207	\$ 3,164	28%	\$ 1,930	0.6	\$ 168	\$ 2,996
Nome Volunteer Fire Station	Nome	\$ 35,540	\$ 25,389	\$ 10,151	29%	\$ 16,005	1.6	\$ 1,397	\$ 8,754
Shaktoolik School	Shaktoolik	\$ 102,489	\$ 80,620	\$ 21,868	21%	\$ 106,079	4.9	\$ 9,257	\$ 12,611
Shaktoolik Health Clinic	Shaktoolik	\$ 11,995	\$ 6,774	\$ 5,220	44%	\$ 10,386	2.0	\$ 906	\$ 4,314
Tribal Office Building	Shaktoolik	\$ 5,346	\$ 3,995	\$ 1,351	25%	\$ 4,918	4.2	\$ 429	\$ 922
Shaktoolik Water Treatment Plant	Shaktoolik	\$ 50,055	\$ 12,749	\$ 37,306	75%	\$ 323,222	8.7	\$ 28,207	\$ 9,100
Stebbins K-12 School (Tukurngailnguq School)	Stebbins	\$ 253,710	\$ 174,141	\$ 79,569	31%	\$ 140,405	1.8	\$ 12,253	\$ 67,316
Teller School	Teller	\$ 212,732	\$ 159,591	\$ 53,140	25%	\$ 100,974	1.9	\$ 8,812	\$ 44,329
Teller Health Clinic	Teller	\$ 13,470	\$ 9,034	\$ 4,436	33%	\$ 12,260	2.8	\$ 1,070	\$ 3,366
Unalakleet Elementary	Unalakleet	\$ 225,140	\$ 201,929	\$ 23,210	10%	\$ 39,408	1.7	\$ 3,439	\$ 19,771
Wales School	Wales	\$ 153,468	\$ 125,810	\$ 27,658	18%	\$ 99,075	3.6	\$ 8,646	\$ 19,012

ANCSA	# of Records	Current Annual Energy Costs AVG (\$)	Post-Retrofit Annual Energy Costs AVG (\$)	Cost Effective Annual Energy Savings AVG (\$)	Energy Savings AVG %	Installed Cost of EE measures AVG (\$)	Simple Payback AVG (years)	Annual PMT	Annual Cost Reduction
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Bristol Bay Native Corporation 11 \$ 131,932 \$ 102,801 \$ 29,130 20% \$ 160,131 7.5 \$ 13,974 \$ 15,156

Building Name	City	Current Annual Energy Costs (\$)	Post-Retrofit Annual Energy Costs (\$)	Cost Effective Annual Energy Savings (\$)	Energy Savings %	Installed Cost of EE measure (\$)	Simple Payback (years)	Annual PMT	Annual Cost Reduction (\$)
Aleknagik K-12 School	Aleknagik	\$ 90,424	\$ 68,670	\$ 21,755	24%	\$ 152,786	7.0	\$ 13,333	\$ 8,422
Chignik Lake K-12	Chignik Lake	\$ 85,781	\$ 73,784	\$ 11,997	14%	\$ 107,424	9.0	\$ 9,375	\$ 2,623
Egegik K-12	Egegik	\$ 69,267	\$ 64,610	\$ 4,657	7%	\$ 43,210	9.3	\$ 3,771	\$ 886
Ekwok K-12 School	Ekwok	\$ 159,615	\$ 143,669	\$ 15,945	10%	\$ 107,400	6.7	\$ 9,372	\$ 6,573
Koliganek K-12	Koliganek	\$ 222,745	\$ 136,374	\$ 86,370	39%	\$ 235,779	2.7	\$ 20,576	\$ 65,795
Manokotak K-12 School	Manokotak	\$ 281,482	\$ 211,896	\$ 69,585	25%	\$ 137,709	2.0	\$ 12,017	\$ 57,568
Newhalen K-12	Newhalen	\$ 154,985	\$ 132,042	\$ 22,943	15%	\$ 476,411	20.8	\$ 41,575	\$ (18,632)
Nondalton K-12	Nondalton	\$ 117,747	\$ 90,681	\$ 27,067	23%	\$ 104,564	3.9	\$ 9,125	\$ 17,942
Perryville K-12	Perryville	\$ 134,057	\$ 100,212	\$ 33,846	25%	\$ 226,956	6.7	\$ 19,806	\$ 14,040
Tanalian K-12	Tanalian	\$ 60,405	\$ 49,971	\$ 10,434	17%	\$ 112,553	10.8	\$ 9,822	\$ 612
Twin Hills K-12	Twin Hills	\$ 74,740	\$ 58,904	\$ 15,835	21%	\$ 56,644	3.6	\$ 4,943	\$ 10,892

ANCSA	# of Records	Current Annual Energy Costs AVG (\$)	Post-Retrofit Annual Energy Costs AVG (\$)	Cost Effective Annual Energy Savings AVG (\$)	Energy Savings AVG %	Installed Cost of EE measures AVG (\$)	Simple Payback AVG (years)	Annual PMT	Annual Cost Reduction
Calista	84	\$ 52,872	\$ 38,030	\$ 14,842	29%	\$ 32,387	3.1	\$ 2,826	\$ 12,016

Building Name	City	Current Annual Energy Costs (\$)	Post-Retrofit Annual Energy Costs (\$)	Cost Effective Annual Energy Savings (\$)	Energy Savings %	Installed Cost of EE measure (\$)	Simple Payback (years)	Annual PMT	Annual Cost Reduction (\$)
Akiak Native Community	Akiak	\$ 14,676	\$ 10,360	\$ 4,316	29%	\$ 15,820	3.7	\$ 1,381	\$ 2,936
Akiak Water Plant	Akiak	\$ 68,327	\$ 59,669	\$ 8,658	13%	\$ 17,980	2.1	\$ 1,569	\$ 7,089
Aniak High School	Aniak	\$ 104,204	\$ 81,906	\$ 22,297	21%	\$ 109,099	4.9	\$ 9,521	\$ 12,777
Auntie Mary Nicoli Elementary	Aniak	\$ 119,299	\$ 82,144	\$ 37,154	31%	\$ 118,498	3.2	\$ 10,341	\$ 26,813
Kuspuk School District Office	Aniak	\$ 38,539	\$ 29,381	\$ 9,158	24%	\$ 39,061	4.3	\$ 3,409	\$ 5,749
Bethel City Shop	Bethel	\$ 135,539	\$ 110,005	\$ 25,534	19%	\$ 41,805	1.6	\$ 3,648	\$ 21,886
Bethel City Hall	Bethel	\$ 51,872	\$ 40,480	\$ 11,391	22%	\$ 50,937	4.5	\$ 4,445	\$ 6,946
Bethel Courthouse	Bethel	\$ 275,048	\$ 215,986	\$ 59,062	21%	\$ 97,780	1.7	\$ 8,533	\$ 50,529
Chefornak Clinic	Chefornak	\$ 14,960	\$ 11,218	\$ 3,742	25%	\$ 6,610	1.8	\$ 577	\$ 3,165
Chefornak IGAP Building	Chefornak	\$ 5,763	\$ 4,085	\$ 1,678	29%	\$ 7,941	4.7	\$ 693	\$ 985
Chefornak Tribal Council	Chefornak	\$ 8,448	\$ 5,333	\$ 3,115	37%	\$ 19,447	6.2	\$ 1,697	\$ 1,418
Chefornak Washeteria	Chefornak	\$ 14,882	\$ 7,185	\$ 7,697	52%	\$ 58,610	7.6	\$ 5,115	\$ 2,583
Chefornak Water Treatment Plant	Chefornak	\$ 14,175	\$ 9,000	\$ 5,175	37%	\$ 6,748	1.3	\$ 589	\$ 4,586
Crow Village Sam School	Chuathbaluk	\$ 87,588	\$ 66,553	\$ 21,034	24%	\$ 49,330	2.3	\$ 4,305	\$ 16,730
Chuathbaluk Health Clinic	Chuathbaluk	\$ 19,079	\$ 12,043	\$ 7,035	37%	\$ 9,070	1.3	\$ 792	\$ 6,244
Chuathbaluk Tribal Office	Chuathbaluk	\$ 8,309	\$ 5,930	\$ 2,379	29%	\$ 9,282	3.9	\$ 810	\$ 1,569
Chuathbaluk Water Treatment Plant	Chuathbaluk	\$ 22,921	\$ 14,324	\$ 8,597	38%	\$ 150,700	17.5	\$ 13,151	\$ (4,554)
Clinic	Eek	\$ 17,708	\$ 16,412	\$ 1,296	7%	\$ 4,880	4.0	\$ 426	\$ 871
Eek Health Clinic	Eek	\$ 12,313	\$ 7,933	\$ 4,380	36%	\$ 9,010	2.1	\$ 786	\$ 3,594
Eek City Office/Tribal Office	Eek	\$ 4,875	\$ 3,187	\$ 1,688	35%	\$ 3,982	2.4	\$ 348	\$ 1,340
IGAP Building	Eek	\$ 5,970	\$ 3,691	\$ 2,280	38%	\$ 6,114	2.7	\$ 534	\$ 1,746
Water Treatment Plant/Washeteria	Eek	\$ 56,378	\$ 45,665	\$ 10,713	19%	\$ 42,000	3.9	\$ 3,665	\$ 7,048

Potential Paybacks from Retrofitting Alaska's Public Buildings: Appendix A

Health Clinic	Goodnews Bay	\$	14,502	\$	7,553	\$	6,949	48%	\$	800	0.1	\$	70	\$	6,879
Public Safety Building	Goodnews Bay	\$	34,743	\$	32,265	\$	2,478	38%	\$	7,139	3.0	\$	623	\$	1,855
Hooper Bay K-12 School	Hooper Bay	\$	853,643	\$	567,946	\$	285,697	33%	\$	126,077	0.4	\$	11,002	\$	274,695
City of Hooper Bay Public Safety	Hooper Bay	\$	14,413	\$	10,308	\$	4,105	28%	\$	17,556	4.3	\$	1,532	\$	2,573
Hooper Bay Washeteria	Hooper Bay	\$	277,194	\$	202,020	\$	75,175	27%	\$	24,158	0.3	\$	2,108	\$	73,066
Kongiginak Health Clinic	Kongiganak	\$	5,905	\$	4,999	\$	905	15%	\$	1,100	1.2	\$	96	\$	809
Kotlik K-12 School	Kotlik	\$	217,587	\$	165,753	\$	51,834	24%	\$	183,750	3.5	\$	16,035	\$	35,799
Zachar Levi School	Lower Kalskag	\$	34,251	\$	30,233	\$	4,019	12%	\$	9,683	2.4	\$	845	\$	3,174
Lower Kalskag Health Clinic	Lower Kalskag	\$	5,506	\$	3,884	\$	1,622	29%	\$	2,422	1.5	\$	211	\$	1,411
Lower Kalskag Tribal Office	Lower Kalskag	\$	2,605	\$	2,219	\$	385	15%	\$	275	0.7	\$	24	\$	361
Lower Kalskag Water Treatment Plant	Lower Kalskag	\$	17,263	\$	14,709	\$	2,554	15%	\$	13,350	5.2	\$	1,165	\$	1,389
Marshall Agnes Boliver Health Clinic	Marshall	\$	8,214	\$	7,178	\$	1,036	13%	\$	3,260	3.1	\$	284	\$	751
Ignatius Beans School	Mountain Village	\$	361,332	\$	253,305	\$	108,027	30%	\$	59,926	0.6	\$	5,230	\$	102,797
Lower Yukon School District Main Office	Mountain Village	\$	53,244	\$	35,228	\$	18,015	34%	\$	101,984	5.7	\$	8,900	\$	9,116
Mountain Village City Office	Mountain Village	\$	35,291	\$	22,407	\$	12,884	37%	\$	44,055	3.4	\$	3,845	\$	9,039
Mountain Village Community Center	Mountain Village	\$	47,260	\$	29,216	\$	18,044	38%	\$	64,884	3.6	\$	5,662	\$	12,382
Napaskiak Clinic	Napaskiak	\$	12,332	\$	9,374	\$	2,958	24%	\$	2,170	0.7	\$	189	\$	2,769
Oscarville Health Clinic	Napaskiak	\$	4,173	\$	3,034	\$	1,139	27%	\$	1,960	1.7	\$	171	\$	968
Napaskiak Tribal Council	Napaskiak	\$	6,041	\$	5,500	\$	541	9%	\$	775	1.4	\$	68	\$	473
Oscarville Tribal Office	Napaskiak	\$	4,359	\$	2,219	\$	2,141	49%	\$	10,391	4.9	\$	907	\$	1,234
Napaskiak East Wellhouse Water Plant	Napaskiak	\$	10,879	\$	9,656	\$	1,223	11%	\$	1,965	1.6	\$	171	\$	1,052
Napaskiak West Well Water Plant	Napaskiak	\$	34,790	\$	19,346	\$	15,443	44%	\$	6,250	0.4	\$	545	\$	14,898
Napaskiak Washeteria and Lift Station	Napaskiak	\$	26,136	\$	21,058	\$	5,078	19%	\$	8,720	1.7	\$	761	\$	4,317
Manguan Newtok Health Clinic	Newtok	\$	21,080	\$	16,457	\$	4,622	22%	\$	5,100	1.1	\$	445	\$	4,177
Newtok Tribal Office and IGAP	Newtok	\$	10,194	\$	7,740	\$	2,454	24%	\$	1,170	0.5	\$	102	\$	2,352
Bingo and Community Hall	Newtok	\$	5,632	\$	3,367	\$	2,265	40%	\$	9,855	4.4	\$	860	\$	1,405
Newtok Tribal Court	Newtok	\$	4,247	\$	3,262	\$	985	23%	\$	3,591	3.6	\$	313	\$	671
Newtok Washeteria and Water Plant	Newtok	\$	6,425	\$	5,658	\$	766	12%	\$	1,500	2.0	\$	131	\$	636
Nightmute Health Clinic	Nightmute	\$	9,793	\$	7,644	\$	2,149	22%	\$	5,620	2.6	\$	490	\$	1,659
Nightmute Traditional Council	Nightmute	\$	7,658	\$	5,663	\$	1,995	26%	\$	4,826	2.4	\$	421	\$	1,574
Nightmute Watering Point	Nightmute	\$	3,172	\$	1,533	\$	1,639	52%	\$	3,405	2.1	\$	297	\$	1,342
Nunapitchuk IRA Bingo Hall	Nunapitchuk	\$	6,585	\$	4,037	\$	2,548	39%	\$	10,035	3.9	\$	876	\$	1,672

Potential Paybacks from Retrofitting Alaska's Public Buildings: Appendix A

Tribal Office Building	Nunapitchuk	\$	5,346	\$	3,995	\$	1,351	25%	\$	4,918	4.2	\$	429	\$	922
WTP-Washeteria	Nunapitchuk	\$	31,633	\$	20,883	\$	10,750	34%	\$	16,150	1.5	\$	1,409	\$	9,341
Russian Mission K12 School	Russian	\$	257,297	\$	175,098	\$	82,200	32%	\$	91,000	1.1	\$	7,941	\$	74,258
	Mission														
Russian Mission Clinic	Russian	\$	8,300	\$	6,994	\$	1,306	16%	\$	570	0.4	\$	50	\$	1,256
	Mission														
Russian Mission Water Treatment Plant	Russian	\$	12,693	\$	10,638	\$	2,055	16%	\$	5,546	2.7	\$	484	\$	1,571
	Mission														
Scammon Bay K12 School	Scammon Bay	\$	439,330	\$	341,706	\$	97,624	22%	\$	328,659	3.4	\$	28,681	\$	68,943
Jack Egnaty Sr. School	Sleetmute	\$	55,167	\$	42,033	\$	13,134	24%	\$	40,937	3.1	\$	3,572	\$	9,562
Clinic	Sleetmute	\$	17,708	\$	16,412	\$	1,296	7%	\$	4,880	4.0	\$	426	\$	871
Sleetmute Health Clinic	Sleetmute	\$	21,045	\$	8,333	\$	12,712	60%	\$	9,100	0.7	\$	794	\$	11,918
Sleetmute Tribal Office	Sleetmute	\$	17,037	\$	12,048	\$	4,990	29%	\$	7,595	1.5	\$	663	\$	4,327
Tribal Office	Sleetmute	\$	9,496	\$	7,763	\$	1,733	18%	\$	2,350	1.4	\$	205	\$	1,527
Community Center	Sleetmute	\$	6,138	\$	5,242	\$	896	15%	\$	410	0.5	\$	36	\$	860
Sleetmute Water Treatment Plant	Sleetmute	\$	19,084	\$	15,800	\$	3,284	17%	\$	5,700	1.7	\$	497	\$	2,787
Gusty Michael School	Stony River	\$	42,406	\$	35,405	\$	7,001	17%	\$	26,096	3.7	\$	2,277	\$	4,724
Tooksook Bay Tribal Office and Community Hall	Toksook Bay	\$	43,914	\$	32,478	\$	11,437	26%	\$	40,950	3.6	\$	3,574	\$	7,863
Tooksook Bay Water Treatment Plant	Toksook Bay	\$	38,327	\$	28,229	\$	10,098	26%	\$	8,600	0.9	\$	750	\$	9,348
Tuluksak Health Clinic	Tuluksak	\$	4,752	\$	3,792	\$	960	20%	\$	505	0.5	\$	44	\$	916
Tuluksak Early Childhood Training Center	Tuluksak	\$	5,645	\$	3,713	\$	1,931	34%	\$	5,387	2.8	\$	470	\$	1,461
Tuluksak Tribal Council Recreation Center	Tuluksak	\$	6,806	\$	5,693	\$	1,113	16%	\$	500	0.4	\$	44	\$	1,070
	Tuluksak	\$	18,489	\$	17,615	\$	874	19%	\$	7,590	8.3	\$	662	\$	212
Tuntutuliak Health Clinic	Tuntutuliak	\$	19,418	\$	17,033	\$	2,385	12%	\$	5,600	2.3	\$	489	\$	1,896
Tuntutuliak Community Building	Tuntutuliak	\$	16,184	\$	11,934	\$	4,249	26%	\$	23,263	5.5	\$	2,030	\$	2,219
Tuntutuliak VPSO Building	Tuntutuliak	\$	7,125	\$	5,138	\$	1,986	28%	\$	13,830	7.0	\$	1,207	\$	779
Tuntutuliak Water Plant and Washeteria	Tuntutuliak	\$	52,115	\$	11,104	\$	41,011	79%	\$	311,025	7.6	\$	27,142	\$	13,869
Tununak Health Clinic	Tununak	\$	9,409	\$	8,380	\$	1,030	11%	\$	4,025	3.9	\$	351	\$	678
Tununak Tribal Police Office	Tununak	\$	5,666	\$	2,480	\$	3,186	56%	\$	11,939	3.7	\$	1,042	\$	2,144
Tununak Water Treatment Plant & Well House	Tununak	\$	22,519	\$	18,278	\$	4,241	19%	\$	27,551	6.5	\$	2,404	\$	1,837
Upper Kalskag Clinic	Upper Kalskag	\$	12,930	\$	10,062	\$	2,868	22%	\$	7,150	2.5	\$	624	\$	2,244
Upper Kalskag Tribal Office	Upper Kalskag	\$	30,751	\$	15,909	\$	14,842	48%	\$	73,424	4.9	\$	6,407	\$	8,434
Townhall	Upper Kalskag	\$	7,342	\$	5,119	\$	2,223	30%	\$	3,974	1.8	\$	347	\$	1,876
Upper Kalskag Lift Station	Upper Kalskag	\$	4,272	\$	1,356	\$	2,915	68%	\$	20,200	6.9	\$	1,763	\$	1,153

ANCSA	# of Records	Current Annual Energy Costs AVG (\$)	Post-Retrofit Annual Energy Costs AVG (\$)	Cost Effective Annual Energy Savings AVG (\$)	Energy Savings AVG %	Installed Cost of EE measures AVG (\$)	Simple Payback AVG (years)	Annual PMT	Annual Cost Reduction
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Potential Paybacks from Retrofitting Alaska's Public Buildings: Appendix A

Cook Inlet Regional (CIRI) - Anchorage Borough only 49 \$ 164,793 \$ 134,485 \$ 30,308 18% \$ 148,880 5.3 \$ 12,992 \$ 17,316

Building Name	City	Current Annual Energy Costs (\$)	Post-Retrofit Annual Energy Costs (\$)	Cost Effective Annual Energy Savings (\$)	Energy Savings %	Installed Cost of EE measure (\$)	Simple Payback (years)	Annual PMT	Annual Cost Reduction (\$)
Ben Boeke Ice Arena	Anchorage	\$ 159,160	\$ 127,812	\$ 31,348	20%	\$ 328,267	10.5	\$ 28,647	\$ 2,701
Dempsey Anderson Ice Arena	Anchorage	\$ 306,616	\$ 189,478	\$ 117,138	38%	\$ 240,617	2.1	\$ 20,998	\$ 96,140
Fairview Community Recreation Center (Old and New Combined)	Anchorage	\$ 72,049	\$ 51,383	\$ 20,666	29%	\$ 114,936	5.6	\$ 10,030	\$ 10,636
Mt View Community Recreation Center	Anchorage	\$ 44,623	\$ 39,471	\$ 5,151	12%	\$ 35,539	6.9	\$ 3,101	\$ 2,050
Spenard Recreation Center	Anchorage	\$ 107,339	\$ 93,363	\$ 13,976	13%	\$ 16,885	1.2	\$ 1,473	\$ 12,502
Sullivan Arena	Anchorage	\$ 377,856	\$ 332,635	\$ 45,221	12%	\$ 53,742	1.2	\$ 4,690	\$ 40,531
Airport Heights ES	Anchorage	\$ 84,291	\$ 71,429	\$ 12,862	15%	\$ 98,458	7.7	\$ 8,592	\$ 4,270
Baxter Elementary School	Anchorage	\$ 99,154	\$ 61,457	\$ 37,698	38%	\$ 237,118	6.3	\$ 20,693	\$ 17,005
Bayshore Elementary School	Anchorage	\$ 130,316	\$ 111,142	\$ 19,174	15%	\$ 199,330	10.4	\$ 17,395	\$ 1,779
Bear Valley ES	Anchorage	\$ 92,726	\$ 85,338	\$ 7,387	8%	\$ 68,035	9.2	\$ 5,937	\$ 1,450
Benson High School	Anchorage	\$ 51,635	\$ 43,265	\$ 8,370	16%	\$ 7,132	0.9	\$ 622	\$ 7,748
Bowman Elementary School	Anchorage	\$ 127,936	\$ 124,903	\$ 3,033	2%	\$ 32,344	10.7	\$ 2,823	\$ 211
Chinook Elementary	Anchorage	\$ 119,681	\$ 106,748	\$ 12,933	11%	\$ 48,701	3.8	\$ 4,250	\$ 8,683
East High School	Anchorage	\$ 673,463	\$ 549,693	\$ 123,770	18%	\$ 710,304	5.7	\$ 61,986	\$ 61,784
Inlet View ES	Anchorage	\$ 66,576	\$ 58,166	\$ 8,410	13%	\$ 65,050	7.7	\$ 5,677	\$ 2,734
Kasuun ES	Anchorage	\$ 114,826	\$ 96,518	\$ 18,308	16%	\$ 158,775	8.7	\$ 13,856	\$ 4,452
Klatt Elementary School	Anchorage	\$ 88,438	\$ 71,960	\$ 16,478	19%	\$ 87,884	5.3	\$ 7,669	\$ 8,808
Martin Luther King Career Center	Anchorage	\$ 248,734	\$ 188,312	\$ 60,423	24%	\$ 387,659	6.4	\$ 33,830	\$ 26,593
Mountain View ES	Anchorage	\$ 108,834	\$ 91,928	\$ 16,906	16%	\$ 77,401	4.6	\$ 6,755	\$ 10,152
Muldoon ES	Anchorage	\$ 132,556	\$ 112,298	\$ 20,258	15%	\$ 68,787	3.4	\$ 6,003	\$ 14,255
Northwood ABC School	Anchorage	\$ 117,957	\$ 109,961	\$ 7,996	7%	\$ 91,800	11.5	\$ 8,011	\$ (15)
O Malley Elementary School	Anchorage	\$ 98,556	\$ 71,349	\$ 27,207	28%	\$ 259,568	9.5	\$ 22,652	\$ 4,555
Rabbit Creek Elementary School	Anchorage	\$ 95,683	\$ 92,039	\$ 3,645	4%	\$ 2,208	0.6	\$ 193	\$ 3,452
Rogers Park Elementary School	Anchorage	\$ 107,679	\$ 105,238	\$ 2,441	2%	\$ 3,200	1.3	\$ 279	\$ 2,162
SAVE Alternative High School	Anchorage	\$ 45,291	\$ 37,320	\$ 7,971	18%	\$ 72,901	9.1	\$ 6,362	\$ 1,609
Service High School, 9-12	Anchorage	\$ 649,190	\$ 633,796	\$ 15,394	2%	\$ 5,667	0.4	\$ 495	\$ 14,900
Anchorage School District Bus Garage	Anchorage	\$ 106,453	\$ 66,905	\$ 39,548	37%	\$ 129,153	3.3	\$ 11,271	\$ 28,277
Anchorage School District Facility Maintenance Building	Anchorage	\$ 159,122	\$ 138,176	\$ 20,946	13%	\$ 107,145	5.1	\$ 9,350	\$ 11,595
Combined MOA Transit Maintenance Building and Paratransit Administration Building	Anchorage	\$ 106,219	\$ 94,247	\$ 11,972	11%	\$ 15,981	1.3	\$ 1,395	\$ 10,577
New Transit Maintenance Building	Anchorage	\$ 307,530	\$ 280,481	\$ 27,049	9%	\$ 69,450	2.6	\$ 6,061	\$ 20,988

Potential Paybacks from Retrofitting Alaska's Public Buildings: Appendix A

Northwood Street Maintenance	Anchorage	\$	113,082	\$	70,046	\$	43,036	38%	\$	147,311	3.4	\$	12,855	\$	30,181
Anchorage School District Operations Building	Anchorage	\$	19,548	\$	17,288	\$	2,259	12%	\$	11,450	5.1	\$	999	\$	1,260
APD Training / MISD	Anchorage	\$	227,447	\$	207,086	\$	20,361	9%	\$	52,675	2.6	\$	4,597	\$	15,764
Transit Administration Building	Anchorage	\$	82,966	\$	57,392	\$	25,574	31%	\$	50,202	2.0	\$	4,381	\$	21,193
Student Nutrition Center	Anchorage	\$	168,879	\$	162,219	\$	6,660	4%	\$	57,950	8.7	\$	5,057	\$	1,603
Bartlett Pool	Anchorage	\$	174,363	\$	82,172	\$	92,191	53%	\$	227,476	2.5	\$	19,851	\$	72,340
Service High School Pool	Anchorage	\$	118,713	\$	85,693	\$	33,020	28%	\$	130,032	3.9	\$	11,347	\$	21,672
West High School Pool	Anchorage	\$	125,303	\$	96,517	\$	28,786	23%	\$	77,660	2.7	\$	6,777	\$	22,009
Anchorage Senior Center	Anchorage	\$	86,422	\$	65,872	\$	20,550	24%	\$	33,510	1.6	\$	2,924	\$	17,626
Loussac Library	Anchorage	\$	377,900	\$	258,248	\$	119,652	32%	\$	742,550	6.2	\$	64,800	\$	54,852
Anchorage Police Department Headquarters Building	Anchorage	\$	343,084	\$	308,004	\$	35,079	10%	\$	140,148	4.0	\$	12,230	\$	22,849
Fire Station #1 & Fire Station Administration Offices	Anchorage	\$	87,037	\$	71,662	\$	15,375	18%	\$	24,598	1.6	\$	2,147	\$	13,229
Fire Station #12 and Dispatch	Anchorage	\$	133,313	\$	114,104	\$	19,209	14%	\$	181,835	9.5	\$	15,868	\$	3,341
Anchorage School District Warehouse	Anchorage	\$	74,167	\$	60,507	\$	13,661	18%	\$	136,490	10.0	\$	11,911	\$	1,750
Birchwood ES	Chugiak	\$	97,929	\$	81,108	\$	16,820	17%	\$	184,095	10.9	\$	16,065	\$	755
Chugiak High School	Chugiak	\$	626,286	\$	444,098	\$	182,189	29%	\$	1,040,389	5.7	\$	90,791	\$	91,397
Chugiak Senior Center	Chugiak	\$	130,406	\$	100,103	\$	30,303	23%	\$	175,909	5.8	\$	15,351	\$	14,952
Fire Station #11	Eagle River	\$	30,193	\$	24,431	\$	5,763	19%	\$	16,706	2.9	\$	1,458	\$	4,305
Girdwood School	Girdwood	\$	57,324	\$	46,397	\$	10,927	19%	\$	70,100	6.4	\$	6,117	\$	4,809

ANCSA	# of Records	Current Annual Energy Costs AVG (\$)	Post-Retrofit Annual Energy Costs AVG (\$)	Cost Effective Annual Energy Savings AVG (\$)	Energy Savings AVG %	Installed Cost of EE measures AVG (\$)	Simple Payback AVG (years)	Annual PMT	Annual Cost Reduction
Cook Inlet Regional (CIRI) - outside Anchorage Borough	44	\$ 115,863	\$ 97,762	\$ 18,101	14%	\$ 99,972	5.5	\$ 8,724	\$ 9,377

Building Name	City	Current Annual Energy Costs (\$)	Post-Retrofit Annual Energy Costs (\$)	Cost Effective Annual Energy Savings (\$)	Energy Savings %	Installed Cost of EE measure (\$)	Simple Payback (years)	Annual PMT	Annual Cost Reduction (\$)
Chapman Elementary School	Anchor Point	\$ 89,452	\$ 56,129	\$ 33,323	37%	\$ 304,183	9.1	\$ 26,545	\$ 6,778
Homer High School	Homer	\$ 434,285	\$ 385,992	\$ 48,293	11%	\$ 600,400	12.4	\$ 52,395	\$ (4,102)
Paul Banks Elementary	Homer	\$ 85,294	\$ 80,713	\$ 4,581	5%	\$ 48,324	10.5	\$ 4,217	\$ 364
West Homer Elementary	Homer	\$ 130,986	\$ 127,758	\$ 3,228	2%	\$ 23,667	7.3	\$ 2,065	\$ 1,163
Hope Elementary/High School	Hope	\$ 47,098	\$ 33,071	\$ 14,027	30%	\$ 28,498	2.0	\$ 2,487	\$ 11,540
Houston High School	Houston	\$ 160,715	\$ 131,611	\$ 29,104	18%	\$ 193,650	6.7	\$ 16,899	\$ 12,205
North Peninsula Recreation Center	Kenai	\$ 158,567	\$ 124,838	\$ 33,730	21%	\$ 98,421	2.9	\$ 8,589	\$ 25,141
Recreation Center	Kenai	\$ 18,489	\$ 17,615	\$ 874	19%	\$ 7,590	8.3	\$ 662	\$ 212
Kenai Central High School	Kenai	\$ 367,684	\$ 310,004	\$ 57,680	16%	\$ 242,022	4.2	\$ 21,120	\$ 36,559
Kenai Elementary	Kenai	\$ 88,150	\$ 86,569	\$ 1,581	2%	\$ 10,618	6.7	\$ 927	\$ 654
Kenai Middle School	Kenai	\$ 164,978	\$ 127,361	\$ 37,617	23%	\$ 162,807	4.3	\$ 14,208	\$ 23,409
City Hall	Kenai	\$ 29,177	\$ 29,087	\$ 90	0%	\$ 416	4.6	\$ 36	\$ 53
Kenai Senior Center	Kenai	\$ 35,930	\$ 26,297	\$ 9,633	27%	\$ 69,233	7.2	\$ 6,042	\$ 3,592
Public Safety Building	Kenai	\$ 34,743	\$ 32,265	\$ 2,478	38%	\$ 7,139	3.0	\$ 623	\$ 1,855

Potential Paybacks from Retrofitting Alaska's Public Buildings: Appendix A

Vintage Point	Kenai	\$	48,603	\$	45,759	\$	2,844	6%	\$	8,733	3.1	\$	762	\$	2,082
Kenai Airport Terminal	Kenai	\$	126,586	\$	126,532	\$	54	0%	\$	255	4.7	\$	22	\$	32
Moose Pass School	Moose Pass	\$	32,601	\$	26,414	\$	6,187	19%	\$	24,789	4.0	\$	2,163	\$	4,024
Nikiski North Star Elementary School	Nikiski	\$	112,689	\$	92,626	\$	20,063	18%	\$	182,860	9.1	\$	15,958	\$	4,105
Nikolaevsk	Nikolaevsk	\$	67,011	\$	54,205	\$	12,806	19%	\$	132,254	10.3	\$	11,541	\$	1,264
Palmer MTA Ice Arena	Palmer	\$	107,499	\$	90,716	\$	16,783	16%	\$	32,000	1.9	\$	2,793	\$	13,990
Palmer High School	Palmer	\$	335,497	\$	301,525	\$	33,972	10%	\$	239,297	7.0	\$	20,883	\$	13,089
MSBSD - Palmer Administration Office (Post Improvements)	Palmer	\$	112,253	\$	92,462	\$	19,791	18%	\$	144,028	7.3	\$	12,569	\$	7,222
Palmer Public Library	Palmer	\$	43,882	\$	33,518	\$	10,363	24%	\$	81,159	7.8	\$	7,082	\$	3,281
Port Graham	Port Graham	\$	79,141	\$	68,290	\$	10,851	14%	\$	71,823	6.6	\$	6,268	\$	4,583
Susan B. English School	Seldovia	\$	227,236	\$	97,525	\$	129,711	57%	\$	274,750	2.1	\$	23,976	\$	105,734
Ninilchik School	Soldotna	\$	127,069	\$	125,851	\$	1,218	1%	\$	3,201	2.6	\$	279	\$	939
Redoubt Elementary School	Soldotna	\$	139,282	\$	132,991	\$	6,292	5%	\$	43,766	7.0	\$	3,819	\$	2,472
Skyview High School	Soldotna	\$	295,922	\$	227,618	\$	68,303	23%	\$	363,480	5.3	\$	31,720	\$	36,584
Soldotna Elementary School	Soldotna	\$	120,379	\$	107,491	\$	12,887	11%	\$	95,103	7.4	\$	8,299	\$	4,588
Soldotna High School	Soldotna	\$	261,365	\$	233,963	\$	27,402	10%	\$	296,358	10.8	\$	25,862	\$	1,540
City of Soldatna Maintenance Garage	Soldotna	\$	20,254	\$	20,011	\$	243	1%	\$	1,000	4.1	\$	87	\$	156
KPB Administration Building	Soldotna	\$	151,273	\$	130,205	\$	21,068	14%	\$	158,940	7.5	\$	13,870	\$	7,197
Soldotna City Hall	Soldotna	\$	26,051	\$	24,050	\$	2,002	8%	\$	16,463	8.2	\$	1,437	\$	565
Mackey Lake Fire Substation	Soldotna	\$	11,072	\$	9,295	\$	1,777	16%	\$	99	0.1	\$	9	\$	1,768
Soldotna Fire Station	Soldotna	\$	40,946	\$	33,901	\$	7,044	17%	\$	118	0.0	\$	10	\$	7,034
Soldotna Police Station	Soldotna	\$	20,673	\$	19,334	\$	1,340	6%	\$	5,000	3.7	\$	436	\$	903
Sterling Fire Substation	Soldotna	\$	11,012	\$	9,927	\$	1,085	10%	\$	4,183	3.9	\$	365	\$	720
KPB School District Warehouse and Storage	Soldotna	\$	14,957	\$	11,249	\$	3,709	25%	\$	11,317	3.1	\$	988	\$	2,721
Sterling Elementary	Sterling	\$	67,956	\$	60,184	\$	7,772	11%	\$	44,601	5.7	\$	3,892	\$	3,880
Glacier View K-12	Sutton	\$	47,655	\$	37,462	\$	10,193	21%	\$	38,110	3.7	\$	3,326	\$	6,867
Talkeetna Elementary School	Talkeetna	\$	66,703	\$	57,351	\$	9,352	14%	\$	34,052	3.6	\$	2,972	\$	6,381
Trapper Creek Elementary School	Trapper Creek	\$	44,975	\$	34,998	\$	9,977	22%	\$	66,664	6.7	\$	5,818	\$	4,159
Wasilla HS	Wasilla	\$	397,072	\$	332,635	\$	64,437	16%	\$	225,260	3.5	\$	19,658	\$	44,779
Wasilla Police Station	Wasilla	\$	48,015	\$	47,085	\$	930	2%	\$	1,725	1.9	\$	151	\$	779

ANCSA	# of Records	Current Annual Energy Costs AVG (\$)	Post-Retrofit Annual Energy Costs AVG (\$)	Cost Effective Annual Energy Savings AVG (\$)	Energy Savings AVG %	Installed Cost of EE measures AVG (\$)	Simple Payback AVG (years)	Annual PMT	Annual Cost Reduction
Doyon - Fairbanks North Star Borough only	30	\$ 136,759	\$ 117,483	\$ 19,276	15%	\$ 123,783	7.3	\$ 10,802	\$ 8,473

Building Name	City	Current Annual Energy Costs (\$)	Post-Retrofit Annual Energy Costs (\$)	Cost Effective Annual Energy Savings (\$)	Energy Savings %	Installed Cost of EE measure (\$)	Simple Payback (years)	Annual PMT	Annual Cost Reduction (\$)
Anderson Elementary	Eielson AFB	\$ 128,533	\$ 111,481	\$ 17,052	13%	\$ 124,351	7.3	\$ 10,852	\$ 6,200
Crawford Elementary	Eielson AFB	\$ 129,683	\$ 108,974	\$ 20,709	16%	\$ 183,141	8.8	\$ 15,982	\$ 4,727
Big Dipper	Fairbanks	\$ 381,996	\$ 352,749	\$ 29,248	8%	\$ 212,723	7.3	\$ 18,564	\$ 10,684
Carlson Center	Fairbanks	\$ 457,933	\$ 388,677	\$ 69,256	15%	\$ 392,032	5.7	\$ 34,211	\$ 35,045

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Anne Wein Elementary	Fairbanks	\$ 139,147	\$ 116,590	\$ 22,557	16%	\$ 138,552	6.1	\$ 12,091	\$ 10,466
Arctic Light Elementary	Fairbanks	\$ 136,009	\$ 105,956	\$ 30,053	22%	\$ 133,180	4.4	\$ 11,622	\$ 18,431
Barnette Magnet School	Fairbanks	\$ 149,480	\$ 128,280	\$ 21,200	14%	\$ 174,809	8.2	\$ 15,255	\$ 5,945
Denali Elementary School	Fairbanks	\$ 116,842	\$ 102,876	\$ 13,966	12%	\$ 171,666	12.3	\$ 14,981	\$ (1,014)
Fire Training Center	Fairbanks	\$ 7,879	\$ 6,327	\$ 1,553	20%	\$ 4,629	3.0	\$ 404	\$ 1,149
Hunter Elementary	Fairbanks	\$ 151,378	\$ 122,953	\$ 28,425	19%	\$ 146,381	5.1	\$ 12,774	\$ 15,651
Joy Elementary	Fairbanks	\$ 129,661	\$ 115,659	\$ 14,002	11%	\$ 157,043	11.2	\$ 13,705	\$ 297
Ladd Elementary	Fairbanks	\$ 158,049	\$ 118,216	\$ 39,833	25%	\$ 190,080	4.8	\$ 16,588	\$ 23,246
Nordale Elementary	Fairbanks	\$ 117,004	\$ 111,783	\$ 5,220	4%	\$ 39,000	7.5	\$ 3,403	\$ 1,817
Pearl Creek Elementary	Fairbanks	\$ 120,689	\$ 94,981	\$ 25,707	21%	\$ 139,700	5.4	\$ 12,191	\$ 13,516
Salcha Elementary	Fairbanks	\$ 38,505	\$ 35,301	\$ 3,204	8%	\$ 34,510	10.8	\$ 3,012	\$ 192
Two Rivers Elementary	Fairbanks	\$ 44,728	\$ 40,880	\$ 3,848	9%	\$ 41,000	10.7	\$ 3,578	\$ 271
Universtiy Park Elementary	Fairbanks	\$ 129,842	\$ 108,879	\$ 20,962	16%	\$ 131,194	6.3	\$ 11,449	\$ 9,513
Weller Elementary	Fairbanks	\$ 108,154	\$ 92,967	\$ 15,187	14%	\$ 103,926	6.8	\$ 9,069	\$ 6,118
Weller Module	Fairbanks	\$ 11,379	\$ 8,470	\$ 2,909	26%	\$ 15,585	5.4	\$ 1,360	\$ 1,549
Wood River Elementary	Fairbanks	\$ 177,501	\$ 157,726	\$ 19,775	11%	\$ 154,784	7.8	\$ 13,508	\$ 6,268
Fairbanks City Hall	Fairbanks	\$ 114,764	\$ 107,159	\$ 7,605	7%	\$ 26,310	3.5	\$ 2,296	\$ 5,309
Fairbanks North Star Borough School District Administrative Center	Fairbanks	\$ 161,211	\$ 127,187	\$ 34,023	21%	\$ 146,222	4.3	\$ 12,760	\$ 21,263
FNSB Administrative Office	Fairbanks	\$ 211,795	\$ 161,362	\$ 50,433	24%	\$ 93,483	1.9	\$ 8,158	\$ 42,275
Old City Hall	Fairbanks	\$ 11,622	\$ 8,450	\$ 3,173	27%	\$ 37,285	11.8	\$ 3,254	\$ (81)
Fairbanks Main Fire Station	Fairbanks	\$ 144,926	\$ 138,411	\$ 6,515	4%	\$ 48,197	7.4	\$ 4,206	\$ 2,309
Fairbanks Police Station	Fairbanks	\$ 164,475	\$ 159,427	\$ 5,048	3%	\$ 42,040	8.3	\$ 3,669	\$ 1,379
Fire Station 3	Fairbanks	\$ 22,963	\$ 20,611	\$ 2,352	10%	\$ 20,275	8.6	\$ 1,769	\$ 583
Public Works Facility	Fairbanks	\$ 165,037	\$ 130,070	\$ 34,967	21%	\$ 316,000	9.0	\$ 27,576	\$ 7,390
Badger Elementary	North Pole	\$ 144,426	\$ 121,514	\$ 22,912	16%	\$ 234,400	10.2	\$ 20,455	\$ 2,457
Ticasuk Brown Elementary	North Pole	\$ 127,152	\$ 120,580	\$ 6,572	5%	\$ 60,999	9.3	\$ 5,323	\$ 1,249

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Doyon - outside Fairbanks North Star Borough	47	\$ 99,253	\$ 74,932	\$ 24,321	24%	\$ 64,966	3.7	\$ 5,669	\$ 18,652

Building Name	City	Current Annual Energy Costs (\$)	Post-Retrofit Annual Energy Costs (\$)	Cost Effective Annual Energy Savings (\$)	Energy Savings %	Installed Cost of EE measure (\$)	Simple Payback (years)	Annual PMT	Annual Cost Reduction (\$)
Allakaket School	Allakaket	\$ 144,536	\$ 131,568	\$ 12,968	9%	\$ 28,119	2.2	\$ 2,454	\$ 10,515
Anderson School	Anderson	\$ 135,632	\$ 94,384	\$ 41,247	30%	\$ 156,409	3.8	\$ 13,649	\$ 27,598
Anderson City Hall	Anderson	\$ 11,309	\$ 7,874	\$ 3,435	30%	\$ 40,153	11.7	\$ 3,504	\$ (69)
Anderson Fire and Public Works	Anderson	\$ 21,516	\$ 15,207	\$ 6,309	29%	\$ 22,190	3.5	\$ 1,936	\$ 4,372
Blackwell Pre-12 School	Anvik	\$ 53,843	\$ 43,819	\$ 10,025	19%	\$ 28,764	2.9	\$ 2,510	\$ 7,515
Arctic Village School	Arctic Village	\$ 179,462	\$ 148,794	\$ 30,668	17%	\$ 36,200	1.2	\$ 3,159	\$ 27,509
Beaver School (Cruikshank)	Beaver	\$ 72,281	\$ 48,109	\$ 24,171	33%	\$ 52,755	2.2	\$ 4,604	\$ 19,567
Delta Elementary	Delta Junction	\$ 209,372	\$ 176,198	\$ 33,174	16%	\$ 37,875	1.1	\$ 3,305	\$ 29,869
Delta High School	Delta Junction	\$ 133,760	\$ 125,974	\$ 7,785	6%	\$ 15,149	1.9	\$ 1,322	\$ 6,463

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Delta Junction City Hall	Delta Junction	\$	12,029	\$	9,989	\$	2,039	17%	\$	5,380	2.6	\$	469	\$	1,570
Delta Junction Fire Station	Delta Junction	\$	17,689	\$	15,270	\$	2,419	14%	\$	3,154	1.3	\$	275	\$	2,144
Delta Public Works/Rescue Squad	Delta Junction	\$	24,184	\$	16,055	\$	8,130	34%	\$	53,255	6.6	\$	4,647	\$	3,482
Eagle School	Eagle	\$	84,408	\$	55,925	\$	28,484	34%	\$	67,467	2.4	\$	5,888	\$	22,596
Fort Greely School	Fort Greely	\$	160,169	\$	108,414	\$	51,755	32%	\$	33,065	0.6	\$	2,885	\$	48,869
GILA Gymnasium	Galena	\$	39,116	\$	37,767	\$	1,349	3%	\$	6,298	4.7	\$	550	\$	799
GILA Composite	Galena	\$	104,445	\$	82,004	\$	22,441	21%	\$	41,529	1.9	\$	3,624	\$	18,817
Sidney Huntington Elementry	Galena	\$	124,607	\$	108,566	\$	16,041	13%	\$	69,253	4.3	\$	6,044	\$	9,998
Sidney Huntington Jr-Sr High School	Galena	\$	259,639	\$	232,373	\$	27,266	11%	\$	82,445	3.0	\$	7,195	\$	20,071
GILA Auto Shop	Galena	\$	35,353	\$	26,671	\$	8,683	25%	\$	19,097	2.2	\$	1,667	\$	7,016
GILA Headquarters	Galena	\$	63,659	\$	47,038	\$	16,621	26%	\$	30,249	1.8	\$	2,640	\$	13,981
David-Louis Memorial School	Grayling	\$	66,930	\$	49,076	\$	17,855	27%	\$	84,897	4.8	\$	7,409	\$	10,446
Cantwell School	Healy	\$	51,496	\$	34,767	\$	16,729	32%	\$	233,640	14.0	\$	20,389	\$	(3,660)
Tri Valley School	Healy	\$	424,802	\$	197,435	\$	227,366	54%	\$	165,130	0.7	\$	14,410	\$	212,956
Denali Borough School District Office	Healy	\$	11,304	\$	7,804	\$	3,500	31%	\$	5,249	1.5	\$	458	\$	3,042
Holy Cross School	Holy Cross	\$	86,918	\$	71,507	\$	15,411	18%	\$	33,955	2.2	\$	2,963	\$	12,447
Huslia Elementry/High School	Huslia	\$	83,696	\$	68,463	\$	15,233	18%	\$	47,851	3.1	\$	4,176	\$	11,057
Kaltag School	Kaltag	\$	101,144	\$	95,404	\$	5,740	6%	\$	19,812	3.5	\$	1,729	\$	4,011
McGrath School	McGrath	\$	156,482	\$	112,293	\$	44,189	28%	\$	129,110	2.9	\$	11,267	\$	32,922
IASD District Office	McGrath	\$	40,952	\$	26,104	\$	14,848	36%	\$	70,332	4.7	\$	6,138	\$	8,710
Nenana City School	Nenana	\$	220,681	\$	202,473	\$	18,209	8%	\$	128,148	7.0	\$	11,183	\$	7,025
Nenana City Hall	Nenana	\$	22,998	\$	10,319	\$	12,679	55%	\$	110,378	8.7	\$	9,632	\$	3,046
Nenana Civic Center	Nenana	\$	16,776	\$	10,271	\$	6,505	39%	\$	30,540	4.7	\$	2,665	\$	3,840
Nenana Fire Hall	Nenana	\$	15,896	\$	10,974	\$	4,922	31%	\$	41,500	8.4	\$	3,622	\$	1,300
Top of the Kuskokwim School	Nikolai	\$	86,847	\$	65,260	\$	21,587	25%	\$	31,340	1.5	\$	2,735	\$	18,853
Walter Northway School	Northway	\$	275,824	\$	204,131	\$	71,692	26%	\$	170,498	2.4	\$	14,879	\$	56,814
Nulato School	Nulato	\$	129,580	\$	107,076	\$	22,505	17%	\$	52,779	2.3	\$	4,606	\$	17,899
Nulato Health Clinic	Nulato	\$	11,872	\$	8,656	\$	3,216	27%	\$	20,652	6.4	\$	1,802	\$	1,414
Nulato Tribal Office	Nulato	\$	7,142	\$	5,975	\$	1,167	16%	\$	805	0.7	\$	70	\$	1,097
Nulato Downtown Water Plant and Laundramat	Nulato	\$	42,887	\$	37,444	\$	5,442	13%	\$	13,550	2.5	\$	1,182	\$	4,260
Nulato New Town Water Plant	Nulato	\$	26,757	\$	17,794	\$	8,963	33%	\$	19,550	2.2	\$	1,706	\$	7,257
Ruby School	Ruby	\$	90,565	\$	63,013	\$	27,552	30%	\$	137,942	5.0	\$	12,038	\$	15,514
Innoko River School	Shageluk	\$	47,975	\$	41,862	\$	6,114	13%	\$	18,660	3.1	\$	1,628	\$	4,485
Tanacross School	Tanacross	\$	31,804	\$	24,734	\$	7,070	22%	\$	41,092	5.8	\$	3,586	\$	3,484
Maudrey J. Sommer K12 School	Tanana	\$	101,084	\$	83,004	\$	18,080	18%	\$	74,730	4.1	\$	6,521	\$	11,559
Tok Athletic Facility	Tok	\$	50,866	\$	30,996	\$	19,870	39%	\$	113,638	5.7	\$	9,917	\$	9,953
Tok School	Tok	\$	341,960	\$	255,876	\$	86,084	25%	\$	60,661	0.7	\$	5,294	\$	80,790
John Fredson School	Venetie	\$	232,661	\$	147,099	\$	85,562	37%	\$	368,139	4.3	\$	32,126	\$	53,436

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Koniag	10	\$ 81,208	\$ 64,712	\$ 16,497	21%	\$ 114,268	8.5	\$ 9,972	\$ 6,525

Potential Paybacks from Retrofitting Alaska's Public Buildings: Appendix A

Building Name	City	Current Annual Energy Costs (\$)	Post-Retrofit Annual Energy Costs (\$)	Cost Effective Annual Energy Savings (\$)	Energy Savings %	Installed Cost of EE measure (\$)	Simple Payback (years)	Annual PMT	Annual Cost Reduction (\$)
Chiniak School	Chiniak	\$ 18,973	\$ 14,375	\$ 4,598	24%	\$ 66,568	14.5	\$ 5,809	\$ (1,212)
East Elementary School	Kodiak	\$ 116,156	\$ 89,669	\$ 26,487	23%	\$ 140,182	5.3	\$ 12,233	\$ 14,253
Kodiak Middle School	Kodiak	\$ 200,457	\$ 172,748	\$ 27,709	14%	\$ 171,256	6.2	\$ 14,945	\$ 12,764
Main Elementary School	Kodiak	\$ 77,464	\$ 60,899	\$ 16,565	21%	\$ 110,250	6.7	\$ 9,621	\$ 6,944
Peterson Elementary School	Kodiak	\$ 91,119	\$ 73,565	\$ 17,554	19%	\$ 153,250	8.7	\$ 13,374	\$ 4,180
Kodiak Island Borough Admin Bldg	Kodiak	\$ 106,840	\$ 80,911	\$ 25,929	24%	\$ 142,830	5.5	\$ 12,464	\$ 13,465
Bayside Fire Station	Kodiak	\$ 12,918	\$ 10,872	\$ 2,047	16%	\$ 26,227	12.8	\$ 2,289	\$ (242)
Women's Bay Volunteer Fire Department	Kodiak	\$ 9,018	\$ 6,739	\$ 2,280	25%	\$ 22,726	10.0	\$ 1,983	\$ 296
Larsen Bay School	Larsen Bay	\$ 85,334	\$ 58,920	\$ 26,414	31%	\$ 190,794	7.2	\$ 16,650	\$ 9,764
Ouzinkie School	Ouzinkie	\$ 93,801	\$ 78,418	\$ 15,384	16%	\$ 118,594	7.7	\$ 10,349	\$ 5,034

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Nana Regional Corporation	2	\$ 265,211	\$ 193,301	\$ 71,910	20%	\$ 80,217	1.8	\$ 7,000	\$ 64,909

Building Name	City	Current Annual Energy Costs (\$)	Post-Retrofit Annual Energy Costs (\$)	Cost Effective Annual Energy Savings (\$)	Energy Savings %	Installed Cost of EE measure (\$)	Simple Payback (years)	Annual PMT	Annual Cost Reduction (\$)
Buckland School	Buckland	\$ 463,778	\$ 327,425	\$ 136,353	29%	\$ 140,833	1.0	\$ 12,290	\$ 124,063
Alaska Technical Center Dormitory	Kotzebue	\$ 66,643	\$ 59,177	\$ 7,467	11%	\$ 19,600	2.6	\$ 1,710	\$ 5,756