



Energy Savings Performance Projects Completed Through DOT&PF Statewide Public Facilities

Related ESPC RFP #	Project No.	Agency	Project Name	Year Completed	Facility(s)	Total Bldg Sq. Ft.	Total Number Bldgs Completed	Qty Bldgs > 10K Sq. Ft.	City	Project Scope	Project Energy Savings						O&M (\$)	Project Total Energy Savings (\$)	Total Project Cost (\$)	Simple Payback (Years)	Contract Method	Contractor	Notes			
											Elec kW	Elec (kWh)	Gas (Ccf)	Heating Oil (Gal)	Water (kGal)	Water (\$)										
											69	49	CUMULATIVE ENERGY SAVINGS TOTALS=> (For Completed Projects)						9,240,011	162,291	308,476	41,686		\$ 34,952,163		
2016																										
9	DOC	Spring Creek Correctional Center Energy Upgrades	2016	Spring Creek Correctional Center	205,952				Seward	Exterior bldg and mast lighting, interior lighting, central heating plant upgrades, DDC	2,817	1,120,944		43,904			\$ 3,010	\$ 299,345	\$ 3,197,162	10.7	Energy Savings Performance Contract	Siemens	Energy & cost savings data from Siemens 2016 M&V Report			
2015																										
11	DOT&PF	DOT&PF Northern Region Energy Upgrades	In Construction	Multiple Northern Region Maintenance Facilities	115,846	16	4	Chitina, Enerstine, Gulkana, Nelchina, Paxson Fairbanks, Slana, St. Mary's, Tazlina	Interior and exterior lighting, DDC upgrades, heating system upgrades, programmable thermostats, building envelope upgrades, CHP, re-commissioning study	1,243	375,544		27,103			\$ 41,945	\$ 242,377	\$ 3,555,534	14.7	Energy Savings Performance Contract	Siemens	Energy & cost savings data from Siemens 2016 M&V Report				
2014																										
13	TSAIA	ARFF Safety Building Energy Upgrades	IGA&ESP Complete 2014	TSAIA ARFF Safety Building SB115				Anchorage																Ameresco	TSAIA not moving forward with implementation. TSAIA decided to take the project through to completion of the energy audit only.	
12	DHSS	Anchorage Public Health Lab Energy Upgrades	IGA&ESP Complete 2015	Anchorage Public Health Lab	37,000			Anchorage	Exterior lighting, interior lighting, exhaust system modifications, demand control ventilation, motor upgrades															Ameresco	DHSS not moving forward with implementation	
10	DOC	Ketchikan Correctional & Lemon Creek Correction Center Energy Upgrades	IGA&ESP Complete 2015	Ketchikan Correctional Center, Lemon Creek Correctional Center	112,246			Ketchikan	Exterior bldg and mast lighting, interior lighting, DDC upgrades, boiler replacement, MZU conversion to VAV, heat recovery															Ameresco	Not moving forward with implementation	
8	PJ 81121-A	DEED	MEHS Campus-Wide Energy Upgrades (Ph-2)	2014	Bldg 289-Central Heating Plant, Bldg 290-Cafeteria , Bldg 292-Boys Dorm,	226,431	8	7	Sitka	Campus Wide DDC Upgrades, Bldg 1331-Gym Hydronic Heating Piping Replacement, Upper		153,027		39,361			\$ 60,000	\$ 234,881	\$ 2,721,701	11.6	Energy Savings Performance Contract	Siemens	Need to update with 2014 M&V Report			
2013																										
7	PJ 81136	DFG	Fairbanks Regional Headquarters Energy	2014	Regional HQ Bldg, Indoor Shooting Range, Sealing Laboratory	39,632	3	2	Fairbanks	Lighting Upgrades, lighting controls, laboratory	363	122,060		4,841				\$ 43,434	\$ 521,822	12.0	Energy Savings Performance Contract	Ameresco				
1	PJ 80058	DOC	Dept. of Corrections Facilities (Change Order)	2013	Lemon Creek Correctional Center	85,088	1	1	Juneau	DDC Upgrade to Supply Fan (SF-3) system in 'Mod Section' of LCCCC				1,099				\$ 2,660	\$ 221,534	83.3	Energy Savings Performance Contract	Siemens	Energy & cost savings data from Siemens 2013 IGA&ESP.			
8	PJ 81121	DEED	MEHS Upper Campus Heating Upgrades (Ph-1)	2013	Bldg 289-Central Heating Plant, Bldg 290-Cafeteria , Bldg 292-Boys Dorm, Bldg 293-Girls Dorm, Bldg 295-				Sitka	Upper Campus Heating Plant Boiler Replacements, Primary Heating and Domestic Water Distribution Piping Replacements,		4,192		27,430		\$ 45,000	\$ 155,077	\$ 1,809,569	11.7	Energy Savings Performance Contract	Siemens	Energy & cost savings data from Siemens 2014 M&V Report				
	PJ 83023-81163	DPS	DPS Fairbanks Alaska State Trooper Bldg Energy Upgrades	2013	Fairbanks State Trooper Building	35,352	1	1	Fairbanks	Lighting retrofits including DMV and Dispatch, HVAC upgrades, Conference Room Window Upgrade,		50,372		45			\$ 7,174	\$ 749,995	104.5	Energy Savings Performance Contract	Siemens	Energy & cost savings data from Siemens 2013 IGA&ESP				
2012																										
1	83080-A	DOT&PF-SR	DOT&PF-Southeast Region Facilities	2012	7-Mile Facility	53,700	1	1	Juneau	Heating System Replacement, DDC Upgrade, VFD drives and high efficiency motors		24,157		5,688												
				2012	AMHS Maint Bldg	5,000	1		Juneau	Lighting Upgrades, Destrat Fan		42,648		(187)												
				2012	Sitka State & City Office	28,138	1	1	Sitka	Lighting Upgrades, Lighting Controls		67,127		(934)												
				2012	Ketchikan State Court & Office	36,218	1	1	Ketchikan	Boiler Replacements, VFDs, 3-Way Valves		4,979		4,204												
1	83080-A	DOC	Dept. of Corrections Facilities	2012	Ketchikan Correctional Center	18,092	1	1	Ketchikan	Boiler Replacements				5,813												
				2012	Lemon Creek Correctional Laundry	9,066	1		Juneau	Thermal Fluid Heating System				3,607												
1	83080-A	DEED	Dept. of Education Facilities	2012	MEHS Gymnasium Bldg	53,826	1	1	Sitka	Lighting Upgrades, Lighting Controls		71,041		(1,037)												
				2012	Sitka SJ Muesum	6,500	1		Sitka	Lighting Upgrades, Lighting Controls, Demand Controlled Ventilation		35,803														
2	83080-B: DOTPF-CR	DOT&PF-CR	DOT&PF- Central Region Facilities	2012	Palmer Vehicle Maintenance Shop	12,600	1	1	Palmer	Lighting Upgrades, Lighting Controls, Boiler Repl	43	23,790	48,846				\$ (576)	\$ 55,389	\$ 1,290,320	23.3	Energy Savings Performance Contract	Ameresco	Energy & cost data from Ameresco 2012 M&V Report			
				2012	Communications Bldg	12,432	1	1	Anchorage	Lighting Upgrades, Lighting Controls, Boiler Repl	277	113,188	645				\$ 1,286									



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											Elec kW	Elec (kWh)	Gas (CCF)	Heating Oil (Gal)	Water (kGal)	Water (\$)									
2	83080-B: DOL&WD	DOL&WD	AVTEC Facilities	2012	AVTEC First Lake Facility	20,000	1	1	Seward	Lighting Upgrades, Lighting Control Upgrades, B	384	112,753		2,391			\$ 1,904	\$ 29,172	\$ 334,950	11.5	Energy Savings Performance Contract	Ameresco	Energy & cost data from Ameresco 2012 M&V Report		
2	83080-B: DF&G	DF&G	DF&G Cordova Facilities	2012	Cordova Administration Bldg	3,920	1		Cordova	High Eff. Boiler Replacment, Lighting, Upgrades, Lighting controls, DDC Upgrades, instantaneous water heater	45	11,447		684			\$ 254	\$ 9,471	\$ 328,374	34.7	Energy Savings Performance Contract	Ameresco	Energy & cost data from Ameresco 2012 M&V Report		
					Cordova Bunkhouse	3,876	1			High Eff. Boiler Replacment, Lighting, Upgrades,	21	2,253		729			\$ 82								
				2012	Forestry Palmer Admin Bldg	15,678	1	1	Palmer	High Eff. Boiler Replacement, Lighting Controls, DDC system improvements, Instantaneous Hot Water Heater		6,047	2,732				\$ 77	\$ 12,797	\$ 334,950	26.2	Energy Savings Performance Contract	Ameresco	Energy & cost data from Ameresco 2012 M&V Report		
2	83080-B: DNR	DNR	DNR Facilities	2012	Forestry Palmer Warehouse Bldg	18,000	1	1	Palmer	Lighting upgrades, lighting controls, radiant heat controls, night temperature setback, unified water metering	94	18,712	1,540				110	\$ 1,022							
					Forestry Palmer Hanger	15,000	1	1		Lighting upgrades, lighting controls, radiant heat controls, vehicle door replacement, hanger door seal, instantaneous water heater	104	33,795	2,239				\$ (318)								
3	83080-C: DOTPF-NR	DOT&PF-NR	DOT&PF-Northern Region Facilities	2012	Peger Road HQ Bldg	21,900	1	1	Fairbanks	Hydronic Heating System, High Eff. Motors, DDC Upgrades, Window Replacement		509,317		(10,989)				\$ 58,580	\$ 1,274,413	21.8	Energy Savings Performance Contract	Siemens	Energy & cost data from Siemens 2012 M&V Report		
3	83080-C: DPS	DPS	DPS Facilities	2012	Coldfoot Hanger	4,053	1		Coldfoot	Lighting Upgrades, Heating System Upgrade, Building Envelope Upgrades		5,040		1,183				\$ 7,412	\$ 326,889	44.1	Energy Savings Performance Contract	Siemens	Energy & cost data from Siemens 2012 M&V Report		
3	83080-C: DMVA	DMVA	DMVA Facilities	2012	Anchorage Armory	210,283	1	1	JBER	High Eff. Boiler Upgrade				33,359				\$ 27,066	\$ 669,123	24.7	Energy Savings Performance Contract	Siemens	Energy & cost savings data from Siemens 2012 M&V Report		
4	83080-D: DOA	DOA	DOA Facilities	2012	Atwood Bldg	338,000	1	1	Anchorage	DDC Upgrades, Stack Effect Correction				3,333				\$ 10,610	\$ 932,202	87.9	Energy Savings Performance Contract	Siemens	Energy & cost savings data from Siemens 2012 M&V Report		
					Community Bldg	22,400	1	1		DDC Heating System Upgrades,				2,989											
				2012	Assets Bldg	24,310	1	1	Anchorage	High Efficiency Boiler Upgrade				2,844				\$ 8,619	\$ 351,317	40.8	Energy Savings Performance Contract	Ameresco	Energy & cost savings data from Ameresco engineering data		
5	83080-E: DHSS	DHSS	DHSS Facilities	2012	McLaughlin Youth Center	60,705	1	1	Anchorage	Lighting and Lighting Control Upgrades		70,714						\$ 7,765	\$ 495,856	63.9	Energy Savings Performance Contract	Siemens	Energy & cost savings data from Siemens 2012 M&V Report		
6	PJ 54552	DOT&PF-CR	Aviation Bldg Boiler Upgrades	2012	DOTPF-CR Aviation Bldg Boilers	62,000	1	1	Anchorage	High Efficiency Boiler Upgrade, DDC Panel Upgrades, AHU O/A Damper Improvements				11,045				\$ 7,765	\$ 495,856	63.9	Energy Savings Performance Contract	Siemens	Energy & cost savings data from Siemens 2012 M&V Report		

2011

Cumulative Annual Energy Cost Savings from Energy Savings Performance Projects

Applicable Escalation Factors

Energy => 3.50%
Operations & Maintenance => 2.00%

AGENCY / PROJECT	TYPE	Year								
		2010	2011	2012	2013	2014	2015	2016		
DOA/DOTPf (SOA Phase 1)	Energy Operations	\$ 557,763 \$ 13,034	\$ 577,284.71 \$ 13,294.68	\$ 597,489.67 \$ 13,560.57	\$ 618,402 \$ 13,832	\$ 640,046 \$ 14,108	\$ 662,447 \$ 14,391	\$ 685,633 \$ 14,678		\$ 700,312 Subtotal
DOC (SOA Phase 2)	Energy Operations			\$ 966,253 \$ 2,491	\$ 1,000,072 \$ 2,541	\$ 1,035,074 \$ 2,592	\$ 1,071,302 \$ 2,643	\$ 1,108,798 \$ 2,696		\$ 1,111,494 Subtotal
DOT&PF-SE	Energy Operations			\$46,135.00 \$1,768.00	\$ 47,750 \$ 1,803	\$ 49,421 \$ 1,839	\$ 51,151 \$ 1,876	\$ 52,941 \$ 1,914		\$54,854.71 Subtotal
DOC	Energy Operations			\$22,913.00	\$ 23,715 \$ -	\$ 24,545 \$ -	\$ 25,404	\$ 26,293		\$26,293.19 Subtotal
DEED - MEHS	Energy Operations			\$8,122.00 \$1,802.00	\$ 8,406 \$ 1,838	\$ 8,700 \$ 1,875	\$ 9,005 \$ 1,912	\$ 9,320 \$ 1,951		\$11,270.72 Subtotal
DF&G	Energy Operations			\$9,135.00 \$336.00	\$ 9,455 \$ 343	\$ 9,786 \$ 350	\$ 10,128 \$ 357	\$ 10,483 \$ 364		\$10,846.32 Subtotal
DOL-AVTEC	Energy Operations			\$27,268.00 \$1,904.00	\$ 28,222 \$ 1,942	\$ 29,210 \$ 1,981	\$ 30,233 \$ 2,021	\$ 31,291 \$ 2,061		\$33,351.61 Subtotal
DOT-CR	Energy Operations			\$54,679.00 \$710.00	\$ 56,593 \$ 724	\$ 58,574 \$ 739	\$ 60,624 \$ 753	\$ 62,745 \$ 769		\$63,513.94 Subtotal
DNR	Energy Operations			\$12,016.00 \$781.00	\$ 12,437 \$ 797	\$ 12,872 \$ 813	\$ 13,322 \$ 829	\$ 13,789 \$ 845		\$14,634.02 Subtotal
DMVA	Energy Operations			\$27,066.00	\$ 28,013 \$ -	\$ 28,994 \$ -	\$ 30,009	\$ 31,059		\$31,058.86 Subtotal
DPS	Energy Operations			\$7,412.00 \$184.00	\$ 7,671 \$ 188	\$ 7,940 \$ 191	\$ 8,218 \$ 195	\$ 8,505 \$ 199		\$8,704.61 Subtotal
DOT-NR	Energy			\$58,580.00	\$ 60,630	\$ 62,752	\$ 64,949	\$ 67,222		

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AGENCY / PROJECT	TYPE	Year							
		2010	2011	2012	2013	2014	2015	2016	
Operations				\$ -	\$ -				\$67,221.90 Subtotal
DOA	Energy Operations	\$10,610.00	\$10,981	\$11,366	\$11,763	\$12,175			\$12,175.22 Subtotal
DOT&PF Aviation Bldg Boiler Upgrades	Energy Operations	\$7,765	\$8,037	\$8,318	\$8,609	\$8,911			\$8,910.52 Subtotal
DPS Fairbanks Alaska State Trooper Bldg	Energy Operations	\$7,174	\$7,425	\$7,685	\$7,954				\$7,953.94 Subtotal
DEED-MEHS Upper Campus Heating Upgrades (Phase 1)	Energy Operations	\$131,179	\$135,770	\$140,522	\$145,441				\$193,194.86 Subtotal
DOC Lemon Creek SF-3 DDC Upgrades	Energy	\$2,660	\$2,753	\$2,849	\$2,949				\$2,949.19 Subtotal
DEED-MEHS Campus Wide Energy Upgrades (Phase 2)	Energy Operations	\$174,881	\$181,001.84	\$187,336.90					\$251,610 Subtotal
DF&G Fairbanks Regional HQ Energy Upgrades	Energy Operations	\$43,434	\$44,954.19	\$46,527.59					\$46,528 Subtotal
DOT&PF Northern Region Energy Upgrades	Energy Operations		\$200,433	\$207,448					\$250,232 Subtotal
DOC Spring Creek Correctional Center Energy Upgrades	Energy Operation		\$313,375						\$349,042 Subtotal

\$ 3,256,151 => 2016 Cumulative Annual Energy Cost Sav