



Facility	Project		FIM #	Description	ESPC Cost	Guaranteed Savings	Simple Payback	Incentives			Net Payback	RECOMMENDED / REMARKS
	Type	Phase						Avista	BETC	ETO		
RECOMMENDED												
PHASE 1												
Illinois Valley HS	Controls	1	04.01 - IVH	Demand Control Ventilation	\$ 31,185	\$ 6,371	4.9	\$ -	\$ 1,590	\$ 1,593	4.4	YES Mandatory - SPB < 15 years
Madrona ES	Controls	1	04.01 - MES	Demand Control Ventilation	\$ 12,179	\$ 2,356	5.2	\$ -	\$ 621	\$ 589	4.7	YES Mandatory - SPB < 15 years
Evergreen ES	Controls	1	04.01 - EES	Demand Control Ventilation	\$ 20,732	\$ 3,327	6.2	\$ -	\$ 1,057	\$ 832	5.7	YES Mandatory - SPB < 15 years
North Valley HS	Controls	1	04.01 - NVH	Demand Control Ventilation	\$ 34,442	\$ 4,989	6.9	\$ 8,981	\$ 1,757	\$ 1,247	4.5	YES Mandatory - SPB < 15 years
Illinois Valley HS	Lighting	1	09.01 - IVH	Lighting Upgrade	\$ 81,015	\$ -	n/a	\$ -	\$ -	\$ -	n/a	YES Recommended - SPB > 15 years
			09.99 - IVH	PCB Remediation (excludes prior retrofits)	\$ 5,281	\$ 4,923	17.5	\$ -	\$ 18,829	\$ 8,861	11.9	YES Recommended - SPB > 15 years
Evergreen ES	Lighting	1	09.01 - EES	Lighting Upgrade	\$ 13,880	\$ -	n/a	\$ -	\$ -	\$ -	n/a	YES Recommended - SPB > 15 years
			09.99 - EES	PCB Remediation	\$ 8,098	\$ 1,030	21.3	\$ -	\$ 3,938	\$ 1,853	15.7	YES Recommended - SPB > 15 years
North Valley HS	Lighting	1	09.01 - NVH	Lighting Upgrade	\$ 89,941	\$ -	n/a	\$ -	\$ -	\$ -	n/a	YES Recommended - SPB > 15 years
			09.99 - NVH	PCB Remediation (excludes prior retrofits)	\$ 880	\$ 3,637	25.0	\$ -	\$ 13,911	\$ 6,546	19.3	YES Recommended - SPB > 15 years
Madrona ES	Lighting	1	09.01 - MES	Lighting Upgrade	\$ 112,317	\$ -	n/a	\$ -	\$ -	\$ -	n/a	YES Recommended - Needs based (PCB remediation)
			09.99 - MES	PCB Remediation	\$ 35,794	\$ 4,054	36.5	\$ -	\$ 15,508	\$ 7,298	30.9	YES Recommended - Needs based (PCB remediation)
PHASE 2												
North Valley HS	Boiler	2	01.04 - NVH	Install <u>Condensing</u> Hi-Efficiency boiler(s)	\$ 265,451	\$ 7,349	36.1	\$ 13,228	\$ 28,110	\$ 1	30.5	YES Recommended - SPB > 15 years
North Valley HS	DHW	2	12.02 - NVH	DHW system upgrades (A.O. Smith condensing units?)	\$ 132,165	\$ 1,616	81.8	\$ -	\$ 6,181	\$ -	78	YES Optional - Needs based (system corrosion & leaks)
Illinois Valley HS	RCx	2	25.02 - IVH	Duct Repair investigation	\$ 16,000	\$ -	n/a	\$ -	\$ -	\$ -	n/a	YES Optional - Needs based (find duct leaks)
Illinois Valley HS	RCx	2	25.03 - IVH	Duct Repair budget	\$ 160,000	\$ -	n/a	\$ -	\$ -	\$ -	n/a	YES Optional - Needs based (fix duct leaks)
North Valley HS	HVAC	2	03.01 - NVH	Computer Lab HVAC (Rooms D8 & 9)	\$ 57,920	\$ -	n/a	\$ -	\$ -	\$ -	n/a	YES Optional - Needs based (comfort & reliability)
Illinois Valley HS	HVAC	2	03.01 - IVH	Computer Lab HVAC (Rooms 4 & 5)	\$ 57,920	\$ -	n/a	\$ -	\$ -	\$ -	n/a	YES Optional - Needs based (comfort & reliability)
Madrona ES	RCx	2	25.01 - MES	Calculate savings only (TRSD to self-perform)	\$ -	\$ 4,260	0.0	\$ -	\$ -	\$ 1,065	(0.3)	YES Mandatory - SPB < 15 years
North Valley HS	RCx	2	25.01 - NVH	Calculate savings only (TRSD to self-perform)	\$ -	\$ 8,551	0.0	\$ 15,392	\$ -	\$ 2,138	(2.1)	YES Mandatory - SPB < 15 years
PHASE 3												
North Valley HS	PV	3	14.02 - NVH	PV System 0.89 MW power purchase	n/a	\$ 4,144	n/a	\$ -	\$ -	\$ -	n/a	YES Recommended - PPA or Flip (pending analysis)
Hidden Valley HS	PV	3	14.02 - HVH	PV System 0.82 MW power purchase	n/a	\$ 3,841	n/a	\$ -	\$ -	\$ -	n/a	YES Recommended - PPA or Flip (pending analysis)
Illinois Valley HS	PV	3	14.02 - IVH	PV System 0.59 MW power purchase	n/a	\$ 2,756	n/a	\$ -	\$ -	\$ -	n/a	YES Recommended - PPA or Flip (pending analysis)
Lorna Byrne MS	PV	3	14.02 - LBM	PV System 0.34 MW power purchase	n/a	\$ 1,611	n/a	\$ -	\$ -	\$ -	n/a	YES Recommended - PPA or Flip (pending analysis)
Fleming MS	PV	3	14.02 - FLM	PV System 0.33 MW power purchase	n/a	\$ 1,558	n/a	\$ -	\$ -	\$ -	n/a	YES Recommended - PPA or Flip (pending analysis)
Lincoln Savage MS	PV	3	14.02 - LSM	PV System 0.24 MW power purchase	n/a	\$ 1,145	n/a	\$ -	\$ -	\$ -	n/a	YES Recommended - PPA or Flip (pending analysis)
Illinois Valley HS	Biomass	3	24.02 - IVH	Install Biomass boiler w/ pellet storage	\$ 487,442	\$ 16,432	29.7	\$ -	\$ 82,571	\$ -	24.6	YES Optional - Depending on fuel prices, federal stimulus grants
Evergreen ES	DHW	3	12.01 - EES	DHW system upgrades	\$ 83,400	\$ 1,674	49.8	\$ -	\$ 6,403	\$ -	46	YES Optional - Needs based (system corrosion & leaks)
Madrona ES	DHW	3	12.01 - MES	DHW system upgrades	\$ 83,400	\$ 1,435	58.1	\$ -	\$ 5,489	\$ -	54	YES Optional - Needs based (system corrosion & leaks)
Illinois Valley HS	DHW	3	12.01 - IVH	DHW system upgrades	\$ 132,165	\$ 2,862	46.2	\$ -	\$ 10,947	\$ -	42	YES Optional - Needs based (system corrosion & leaks)
CONTINGENCY - Pick one only, either biomass or conventional boiler												
Evergreen ES	Biomass	?	24.02 - EES	Install Biomass boiler w/ pellet storage	\$ 383,294	\$ 17,273	22.2	\$ -	\$ 86,797	\$ -	17.2	? Optional - Depending on fuel prices, federal stimulus grants
Illinois Valley HS	Boiler	?	01.03 - IVH	Install Hi-Efficiency C.I. sectional boiler	\$ 241,290	\$ 8,867	27.2	\$ -	\$ 33,916	\$ -	23.4	? Optional - Depending on fuel prices
Madrona ES	Biomass	?	24.02 - MES	Install Biomass boiler w/ pellet storage	\$ 388,383	\$ 12,064	32.2	\$ -	\$ 60,622	\$ -	27.2	? Optional - Depending on fuel prices, federal stimulus grants
Evergreen ES	Boiler	?	01.03 - EES	Install Hi-Efficiency C.I. sectional boiler	\$ 183,493	\$ 4,213	43.6	\$ -	\$ 16,115	\$ -	39.7	NO Optional - Biomass much better payback
Madrona ES	Boiler	?	01.03 - MES	Install Hi-Efficiency C.I. sectional boiler	\$ 181,917	\$ 1,293	140.7	\$ -	\$ 4,946	\$ -	137	NO Optional - Biomass much better payback
Evergreen ES	Controls	?	04.02 - EES	Upgrade DDC controls	\$ 25,650	\$ -	n/a	\$ -	\$ -	\$ -	n/a	YES Optional - Needs based (DDC standardization)
Illinois Valley HS	Controls	?	04.02 - IVH	Upgrade DDC controls	\$ 32,850	\$ -	n/a	\$ -	\$ -	\$ -	n/a	YES Optional - Needs based (DDC standardization)
Madrona ES	Controls	?	04.02 - MES	Upgrade DDC controls	\$ 25,650	\$ -	n/a	\$ -	\$ -	\$ -	n/a	YES Optional - Needs based (DDC standardization)
North Valley HS	Controls	?	04.02 - NVH	Upgrade DDC controls	\$ 32,850	\$ -	n/a	\$ -	\$ -	\$ -	n/a	YES Optional - Needs based (DDC standardization)
NOT RECOMMENDED												
Madrona ES	Burner	-	01.01 - MES	Install Hi-turndown burner & filter / separator	\$ 42,371	\$ 2,964	14.3	\$ -	\$ 10,805	\$ -	10.6	NO Optional - Recommended only if no boiler replacement
Evergreen ES	Burner	-	01.01 - EES	Install Hi-turndown burner & filter / separator	\$ 43,622	\$ 2,535	17.2	\$ -	\$ 11,124	\$ -	12.8	NO Optional - Recommended only if no boiler replacement
North Valley HS	HVAC	-	03.01b - NVH	Install split A/C in server room	\$ 31,200	\$ -	n/a	\$ -	\$ -	\$ -	n/a	NO Optional - Needs based (comfort & reliability)
Illinois Valley HS	Biomass	-	24.03 - IVH	Install Biomass boiler w/ chip storage	\$ 1,531,650	\$ 32,739	46.8	\$ -	\$ 164,513	\$ -	41.8	NO Optional - Depending on fuel prices availability
Evergreen ES	Controls	-	04.03 - EES	New Wireless Thermostats (battery)	\$ 25,202	\$ -	n/a	\$ -	\$ -	\$ -	n/a	NO Consider regular battery replacement
Madrona ES	Controls	-	04.03 - MES	New Wireless Thermostats (battery)	\$ 23,133	\$ -	n/a	\$ -	\$ -	\$ -	n/a	NO Consider regular battery replacement
Evergreen ES	Controls	-	04.04 - EES	New Hard-wired Thermostats	\$ 104,157	\$ -	n/a	\$ -	\$ -	\$ -	n/a	NO Consider regular battery replacement
Madrona ES	Controls	-	04.04 - MES	New Hard-wired Thermostats	\$ 96,237	\$ -	n/a	\$ -	\$ -	\$ -	n/a	NO Consider regular battery replacement
Evergreen ES	Controls	-	04.05 - EES	Automatic damper controls for Gym	\$ 44,800	\$ -	n/a	\$ -	\$ -	\$ -	n/a	NO Optional - Needs based (comfort issues)
Evergreen ES	RCx	-	25.01 - EES	Investigate Mechanical equipment	\$ 32,907	\$ -	n/a	\$ -	\$ -	\$ -	n/a	NO Optional - Needs based (comfort issues?)
Illinois Valley HS	RCx	-	25.01 - IVH	Investigate Mechanical equipment	\$ 53,610	\$ -	n/a	\$ -	\$ -	\$ -	n/a	NO Optional - Needs based (comfort issues?)
Madrona ES	RCx	-	25.02 - MES	Duct Repair investigation	\$ 18,982	\$ -	n/a	\$ -	\$ -	\$ -	n/a	NO Optional - Needs based (comfort issues?)
North Valley HS	RCx	-	25.02 - NVH	Duct Repair investigation	\$ 23,600	\$ -	n/a	\$ -	\$ -	\$ -	n/a	NO Optional - Needs based (find duct leaks)
Madrona ES	RCx	-	25.03 - MES	Duct Repair budget	\$ 80,000	\$ -	n/a	\$ -	\$ -	\$ -	n/a	NO Optional - Needs based (comfort issues?)
Evergreen ES	RCx	-	25.03 - EES	Duct Repair budget	\$ 80,000	\$ -	n/a	\$ -	\$ -	\$ -	n/a	NO Optional - Needs based (comfort issues?)
North Valley HS	RCx	-	25.03 - NVH	Duct Repair budget	\$ 236,000	\$ -	n/a	\$ -	\$ -	\$ -	n/a	NO Optional - Needs based (fix duct leaks)
PHASE 1					\$ 445,743	\$ 30,686	14.5	\$ 8,981	\$ 57,211	\$ 28,819	11.4	
PHASE 2					\$ 689,456	\$ 21,776	31.7	\$ 28,620	\$ 34,291	\$ 3,204	28.6	
PHASE 3					\$ 786,407	\$ 37,458	21.0	\$ -	\$ 105,410	\$ -	18.2	
PDP - TOTAL					\$ 1,921,606	\$ 89,920	21.4	\$ 37,601	\$ 196,912	\$ 32,022	18.4	
RECOMMENDED SUBTOTAL BY SCHOOL												
				HIDDEN VALLEY HS	n/a	\$ 3,841	n/a	\$ -	\$ -	\$ -	n/a	
				NORTH VALLEY HS	\$ 580,799	\$ 30,286	19.2	\$ 37,601	\$ 49,958	\$ 9,932	16.0	
				MADRONA ES	\$ 243,690	\$ 12,105	20.1	\$ -	\$ 21,618	\$ 8,952	17.6	
				ILLINOIS VALLEY HS	\$ 971,009	\$ 33,343	29.1	\$ -	\$ 113,937	\$ 10,453	25.4	
				EVERGREEN ES	\$ 126,109	\$ 6,031	20.9	\$ -	\$ 11,399	\$ 2,685	18.6	
				OTHER	\$ -	\$ 4,314	n/a	\$ -	\$ -	\$ -	n/a	

20 YR CASH FLOW - 2008 "ESTIMATE AT COMPLETION" - REDUCED CASH FLOW # 3 (Back-loaded)

Line	2008 REVENUE / EXPENSE	TOTAL	0 FY 07-08	1 FY 08-09	2 FY 09-10	3 FY 10-11	4 FY 11-12	5 FY 12-13	6 FY 13-14	7 FY 14-15	8 FY 15-16	9 FY 16-17	10 FY 17-18	11 FY 18-19	12 FY 19-20	13 FY 20-21	14 FY 21-22	15 FY 22-23	16 FY 23-24	17 FY 24-25	18 FY 25-26	19 FY 26-27	20 FY 27-28	NPV
4	2008 REVENUE																							REVENUE
5	SB 1149 Balance Forward (as of 01/31/08)	\$ 20,355	\$ 20,355																					\$ 20,355
6	SB 1149 Income Forecast (thru 03/31/12)	\$ 343,849	\$ 34,385	\$ 82,524	\$ 82,524	\$ 82,524	\$ 61,893																	\$ 331,456
7	SB 838 Income Forecast (thru 12/31/25)	\$ 1,006,092					\$ 20,631	\$ 82,524	\$ 82,524	\$ 82,524	\$ 82,524	\$ 82,524	\$ 82,524	\$ 82,524	\$ 82,524	\$ 82,524	\$ 82,524	\$ 82,524						\$ 814,261
8	Municipal Lease (4.346% interest - 15 year term)	\$ 1,237,231	\$ 1,237,231																					\$ 1,237,231
9	Avista / BETC / ETO Estimate (Dec)	\$ 237,796		\$ 237,796																				\$ 237,796
10	Guaranteed Energy Savings (3% annual escalation)	\$ 2,069,495		\$ 58,306	\$ 80,073	\$ 82,475	\$ 84,950	\$ 87,498	\$ 90,123	\$ 92,827	\$ 95,612	\$ 98,480	\$ 101,434	\$ 104,477	\$ 107,612	\$ 110,840	\$ 114,165	\$ 117,590	\$ 121,118	\$ 124,751	\$ 128,494	\$ 132,349	\$ 136,319	\$ 1,535,385
11	2008 EXPENSE																							EXPENSE
12	TEA Fee	\$ -	\$ -																					\$ -
13	PDP Fee	\$ (33,900)	\$ (33,900)																					\$ (33,900)
14	WESD PM Fee (actual)	\$ (40,963)	\$ (3,414)	\$ (37,549)																				\$ (40,963)
15	PCB Lab Fees	\$ (1,500)		\$ (1,500)																				\$ (1,500)
16	ESPC Guaranteed Maximum Price	\$ (1,416,812)	\$ (192,232)	\$ (1,218,630)	\$ (5,950)																			\$ (1,416,639)
17	Manzanita ES Lighting Change Order	\$ (56,560)		\$ (56,560)																				\$ (56,560)
18	Self Performed Projects	\$ (1,974)		\$ (1,974)																				\$ (1,974)
19	HVHS Fuel Block replacement	\$ (4,748)		\$ (4,748)																				\$ (4,748)
20	Escrow set-up fee	\$ (500)	\$ (500)																					\$ (500)
21	Equipment Lease payments (monthly)	\$ (1,686,177)		\$ (112,412)	\$ (112,412)	\$ (112,412)	\$ (112,412)	\$ (112,412)	\$ (112,412)	\$ (112,412)	\$ (112,412)	\$ (112,412)	\$ (112,412)	\$ (112,412)	\$ (112,412)	\$ (112,412)	\$ (112,412)	\$ (112,412)	\$ (112,412)	\$ (112,412)	\$ (112,412)	\$ (112,412)	\$ (112,412)	\$ (1,382,224)
22	Avista / BETC / ETO processing fee (included in GMP)	\$ -	\$ -																					\$ -
23	BETC Application Fee (paid directly to ODoE)	\$ (4,412)	\$ (3,603)	\$ (809)																				\$ (4,412)
24	BETC CPA Letter Fee (6 @ \$550 ea)	\$ (3,300)		\$ (3,300)																				\$ (3,300)
25	ESPC M&V Fees (5 yrs - Year 1 included in GMP)	\$ (10,540)			\$ (2,635)	\$ (2,635)	\$ (2,635)	\$ (2,635)	\$ (2,635)															\$ (9,795)
27	GRAND TOTAL	\$ 1,653,432	\$ 1,058,322	\$ (1,058,857)	\$ 44,235	\$ 49,952	\$ 52,427	\$ 54,975	\$ 57,600	\$ 62,939	\$ 65,724	\$ 68,592	\$ 71,546	\$ 74,589	\$ 77,724	\$ 80,952	\$ 84,277	\$ 87,702	\$ 198,817	\$ 124,751	\$ 128,494	\$ 132,349	\$ 136,319	\$ 1,219,970
28	CUMULATIVE TOTAL - 2008		\$ 1,058,322	\$ (534)	\$ 43,701	\$ 93,653	\$ 146,080	\$ 201,055	\$ 258,655	\$ 321,594	\$ 387,318	\$ 455,910	\$ 527,456	\$ 602,045	\$ 679,769	\$ 760,721	\$ 844,998	\$ 932,700	\$ 1,131,518	\$ 1,256,269	\$ 1,384,763	\$ 1,517,112	\$ 1,653,432	

20 YR CASH FLOW - 2009 PDP PHASE 1 - SCENARIO B - REDUCED PROJECT w/ QZAB LOAN

Line	2009 REVENUE / EXPENSE	TOTAL	0 FY 07-08	1 FY 08-09	2 FY 09-10	3 FY 10-11	4 FY 11-12	5 FY 12-13	6 FY 13-14	7 FY 14-15	8 FY 15-16	9 FY 16-17	10 FY 17-18	11 FY 18-19	12 FY 19-20	13 FY 20-21	14 FY 21-22	15 FY 22-23	16 FY 23-24	17 FY 24-25	18 FY 25-26	19 FY 26-27	20 FY 27-28	NPV
33	2009 REVENUE																							REVENUE
34	QZAB (0% interest - 15 year term)	\$ 2,000,000		\$ 2,000,000																				\$ 2,000,000
35	Avista / BETC / ETO Estimate (May 2010)	\$ 266,535			\$ 266,535																			\$ 266,535
36	Guaranteed Energy Savings (3% annual escalation)	\$ 1,900,912			\$ 56,150	\$ 77,112	\$ 79,426	\$ 83,754	\$ 86,267	\$ 88,855	\$ 91,521	\$ 94,266	\$ 97,094	\$ 100,007	\$ 103,007	\$ 106,097	\$ 109,280	\$ 112,559	\$ 115,935	\$ 119,414	\$ 122,996	\$ 126,686	\$ 130,486	\$ 1,390,519
37	Renewable PV Utility Savings (PPA 3% vs Utility 6%)	\$ 1,666,448			\$ 11,291	\$ 20,260	\$ 25,860	\$ 31,877	\$ 38,338	\$ 45,270	\$ 52,701	\$ 60,661	\$ 69,184	\$ 78,301	\$ 88,050	\$ 98,469	\$ 109,596	\$ 121,474	\$ 134,149	\$ 147,666	\$ 162,077	\$ 177,433	\$ 193,791	\$ 1,133,590
38	2009 EXPENSE																							EXPENSE
39	TEA Fee	\$ (39,089)		\$ (39,089)																				\$ (39,089)
40	PDP Fee	\$ (103,400)		\$ (103,400)																				\$ (103,400)
41	WESD PM Fee (proposed)	\$ (69,222)		\$ (23,074)	\$ (46,148)																			\$ (67,878)
42	PCB Lab Fees	\$ (1,500)		\$ (1,500)																				\$ (1,456)
43	ESPC Guaranteed Maximum Price (less 12.01-EES)	\$ (1,838,206)		\$ (248,127)	\$ (1,581,080)	\$ (8,998)																		\$ (1,791,639)
44	QZAB Fee	\$ (25,000)		\$ (25,000)																				\$ (25,000)
45	QZAB payments (2009)	\$ (2,000,000)			\$ (133,333)	\$ (133,333)	\$ (133,333)	\$ (133,333)	\$ (133,333)	\$ (133,333)	\$ (133,333)	\$ (133,333)	\$ (133,333)	\$ (133,333)	\$ (133,333)	\$ (133,333)	\$ (133,333)	\$ (133,333)	\$ (133,333)	\$ (133,333)	\$ (133,333)	\$ (133,333)	\$ (133,333)	\$ (1,591,725)
46	Avista / BETC / ETO processing fee (included in GMP)	\$ -																						\$ -
47	BETC Application Fee (paid directly to ODoE)	\$ (4,633)		\$ (4,633)																				\$ (4,633)
48	BETC CPA Letter Fee (8 ea @ \$550 ea)	\$ (4,400)			\$ (4,400)																			\$ (4,272)
49	ESPC M&V Fees (5 yrs - Year 1 included in GMP)	\$ (35,994)				\$ (8,998)	\$ (8,998)	\$ (8,998)	\$ (8,998)	\$ (8,998)														\$ (33,448)
51	GRAND TOTAL	\$ 1,712,450	\$ -	\$ 1,556,677	\$ (1,432,487)	\$ (44,959)	\$ (37,046)	\$ (26,701)	\$ (17,727)	\$ (8,207)	\$ 10,888	\$ 21,594	\$ 32,945	\$ 44,975	\$ 57,724	\$ 71,233	\$ 85,543	\$ 100,699	\$ 116,751	\$ 267,080	\$ 285,073	\$ 304,119	\$ 324,277	\$ 1,120,341
52	CUMULATIVE TOTAL - 2009		\$ -	\$ 1,556,677	\$ 124,190	\$ 79,231	\$ 42,185	\$ 15,484	\$ (2,243)	\$ (10,450)	\$ 438	\$ 22,032	\$ 54,977	\$ 99,952	\$ 157,675	\$ 228,908	\$ 314,451	\$ 415,151	\$ 531,902	\$ 798,981	\$ 1,084,054	\$ 1,388,173	\$ 1,712,450	

CUMULATIVE TOTAL - 2008 + 2009 \$ 1,058,322 \$ 1,556,142 \$ 167,891 \$ 172,884 \$ 188,265 \$ 216,539 \$ 256,412 \$ 311,144 \$ 387,756 \$ 477,942 \$ 582,433 \$ 701,997 \$ 837,444 \$ 989,629 \$ 1,159,450 \$ 1,347,851 \$ 1,663,420 \$ 2,055,251 \$ 2,468,818 \$ 2,905,285 \$ 3,365,882 \$ 2,340,312

