

Energy Efficiency Scoping Assessment



Audited Schools



Caldwell High School



Syringa Middle School



Jefferson Middle School

How CSD Ranks Nationally

“This data shows these facilities at **20-50% above the national average** indicating significant opportunity for improvement - which the Cohort would continuously help address if you joined.”

Chris Pollow GBE, CDSM

SR. Engineer

Idaho Power/Customer Operations



CSD Energy Costs FY 23/24

Gas: \$173,000

Electric: \$734,000

Total: \$907,000

Potential Annual Savings:

\$181,000 - \$454,000



What Does Cohort Membership Mean?

Cohort **will not** write policies

Cohort **will** make cost-saving policy recommendations

- Some items identified are easy, with little or no cost to the district
- Some items are sizable investments with a quick ROI
- Some items are sizable investments with an impractical ROI

Maintenance is not recommending choices with an unfeasible ROI except:

- In cases where equipment needs to be replaced anyway, and
- Where these choices are a more cost effective option

Caldwell High School											
Syringa											
Jefferson											
Priority #	EEM No.	Description	Billing Demand Savings (kW)	Annual Energy Savings (kWh/yr)	Annual Cost Savings			Estimated Installed Cost	Pre-Incentive Payback (yrs)	Customer Cost After Incentive (\$)	Customer Final Payback (yrs)
					Demand Charges (\$)	Energy Charges (\$)	Total Savings (\$)				
1	1	Install Timers for Water Dispensers	0	3,046	\$0	\$140	\$140	\$60	0.4	\$18	0.1
1	1	Install Timers for Water Dispensers	\$0	\$3,046	\$0	\$157	\$157	\$60	0	\$18	0.1
1	3	Install Timers for water Dispensers	0	3,046	\$0	\$157	\$157	\$60	0.4	\$18	0.1
2	2	Personal Appliance Policy (mini refrigerators)	1.3	11,696	\$123	\$536	\$659	\$0	0	\$0	0
2	2	Personal Appliance Policy (mini refrigerators)	0.6	5,168	\$46	\$266	\$312	\$0	0	\$0	0
2	4	Personal Appliance Policy (mini refrigerators)	0.6	4,896	\$43	\$252	\$295	\$0	0	\$0	0
3	6	Lighting and Controls Upgrade	Contact your Idaho Power representative for details.								
3	8	Lighting and Controls Upgrade	Contact your Idaho Power representative for details.								
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4	4	Upgrade Classroom ventilation (for a typical 825 sq.ft. classroom)	0	284	\$0	\$15	\$15	\$2,500	171	\$2,449	167
4	5	Upgrade Classroom Air Conditioners	12.6	48,500	\$974	\$2,498	\$3,473	\$99,900	29	\$94,900	27
4	6	Upgrade White House Air Handlers	1.3	5,430	\$100	\$280	\$379	\$8,880	23	\$7,780	21
4	7	Thermostat Commissioning	Savings for this measure are dependent on the commissioning findings.								
5	5	Cooling Tower Wet Bulb Reset	44	163,680	\$4,050	\$7,501	\$11,552	\$10,000	0.9	\$0	0
6	2	Controls Domestic for Hot Water Circulator	0	4,533	\$0	\$234	\$234	\$300	1.3	\$90	0.4
	3	Install VFD on Cooling Tower Spray Pumps	0	18,660	\$0	\$855	\$855	\$21,000	24.6	\$13,500	15.8
	4	Install VFD's on WSHP Loop Pumps	0	31,100	\$0	\$1,425	\$1,425	\$35,000	24.6	\$22,500	15.8
	3	Domestic Water Heater Upgrade	4	6,051	\$155	\$312	\$466	\$3,000	6	\$1,911	4
	1	Domestic Water Heater Upgrade	6	7,869	\$232	\$405	\$637	\$7,000	11	\$5,584	8.8
	5a	Exhaust Air Energy Recovery (EER)	2.8	39,836	\$216	\$2,052	\$2,268	\$15,000	6.6	\$7,829	3.5
	5b	Upgrade Electric Heated RTU's	4.5	13,575	\$352	\$699	\$1,051	\$22,200	21.1	\$19,450	19
	6	Install VFD's on WSHP Loop Pumps	0	12,440	\$0	\$641	\$641	\$14,000	21.8	\$9,000	14
	7	Demand Controlled Ventilation (DCV)	2.5	9,300	\$193	\$479	\$672	\$4,950	7.4	\$2,450	4

Install Timers for Water Dispensers



Personal Appliance Policy (mini refrigerators)



Power Strip Damaged From Microwave



Caldwell High School Lighting Upgrade



Lighting & Controls Upgrade



LED Retrofit Tubes
\$6.95 each, \$0.95 after
Rebate



New Motion Sensors
that WORK!



Lighting Control
Wireless Hub