

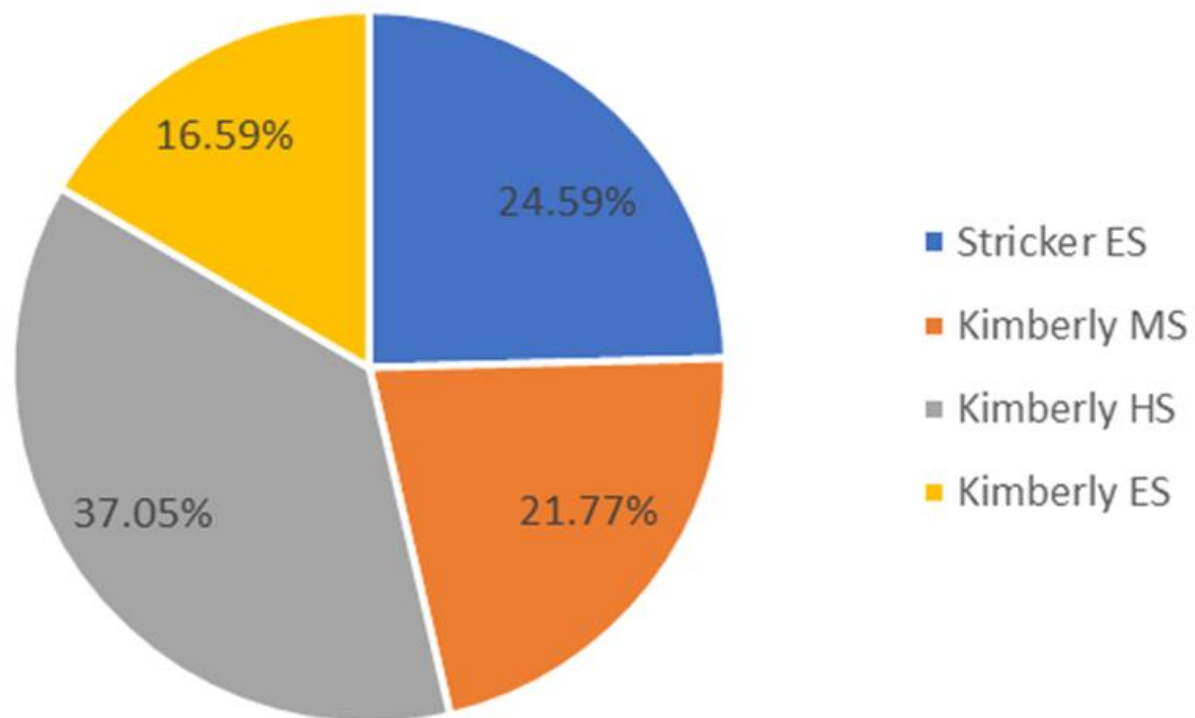


Kimberly Program Update

June 17, 2021



Electric Consumption



**Energy Savings
\$18,799 @
\$0.08/kWh
Plus Idaho
Power CEI
incentive of
\$5,614**

**Total Savings
\$24,413**

		Year 1 kWh	Year 2 kWh
Stricker ES	4/13/2021	-18032	10,217
Kimberly MS	4/13/2021	14,009	127,813
Kimberly HS	4/13/2021	-16,655	76,691
Kimberly ES	4/13/2021	0.00%	20,275
Total		-20,679	234,996

Noted: Negative kWh is increased usage
Positive number is kWh savings

Energy Awareness and Occupant Engagement



Turn off & unplug all items not in use! Thank you for your part in Saving Energy for the School District. Have a great Spring Break!!

Spring is here!

Computers & Printers – Off but Leave Plugged In

TVs, DVD/VCRs, Projectors, Stereos, Pencil Sharpeners, paper shredders, scanners, clocks, lamps, charger, etc. Unplugged or turn off power strips where able.



Small & Faculty Room Refrigerators – Off and Cleaned Out


Submit the completed checklist to your principal before leaving for Spring Break to be entered to win a \$20 gift card to the online store/restaurant of your choice.

Blackout Day!

An energy saving experiment on Earth Day!


Monday, April 22, 2019 - All Day









How can I participate?

- Turn off AND unplug all non-essential electrical equipment.
- Plan a low-tech / no-tech lesson for the day!
- Go outside for class!
- Eat lunch in the sunshine!









#BSDEarthDay2019

Who can participate?
ALL District Faculty, Staff, and Students!



Kimberly School District
Winter, Spring, or Summer Break Classroom/Office/Work

Area Shutdown Checklist

BUILDING: _____ CLASSROOM # _____ DATE: _____

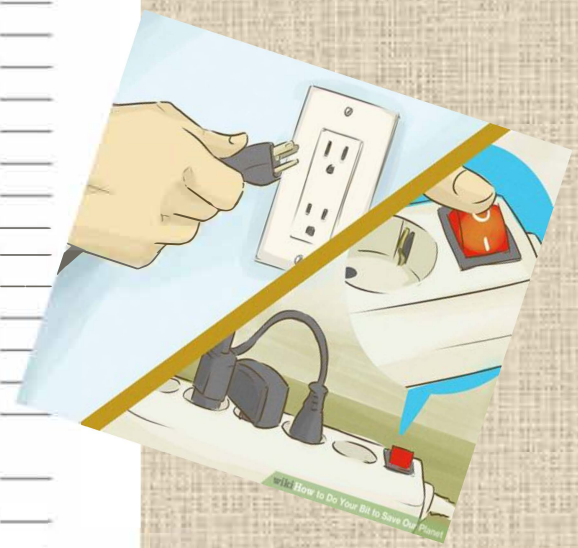
NAME OF STAFF: _____

- Thermostats turned OFF Yes ___ No ___
- Lights OFF Yes ___ No ___
- Computers & Monitors OFF—**LEAVE PLUGGED IN!** Yes ___ No ___
- Copying machines—OFF and UNPLUGGED Yes ___ No ___
- PA systems/Stage and Sound Systems — OFF Yes ___ No ___
- Power Straps —OFF Yes ___ No ___
- Ceiling fans—OFF-UNPLUGGED Yes ___ No ___
- TVs, DVDs and VCRs—OFF-UNPLUGGED Yes ___ No ___
- Speakers-Radios—OFF-UNPLUGGED Yes ___ No ___
- Clocks-Stereo's—OFF-UNPLUGGED Yes ___ No ___
- Lamps-Single Lights—OFF-UNPLUGGED Yes ___ No ___
- Power Strips-Carts OFF & UNPLUGGED Yes ___ No ___
- Microwaves-OFF Yes ___ No ___
- All refrigerators turned OFF & EMPTIED & DOORS OPEN Yes ___ No ___
- Scanners-FAXes-SMART Boards OFF-UNPLUGGED Yes ___ No ___
- Printers OFF-UNPLUGGED Yes ___ No ___
- Shades CLOSED/SHUT Yes ___ No ___
- Windows CLOSED/SHUT/LOCKED Yes ___ No ___
- SMART Boards OFF-UNPLUGGED Yes ___ No ___
- OVERHEAD AV EQUIPMENT OFF-UNPLUGGED Yes ___ No ___
- FACULTY ROOMS: Refrigerators/Microwaves-Off-Emptied-Opened Yes ___ No ___
- Refrigerators) Unplugged (Microwaves & Refrigerators) Yes ___ No ___
- all unnecessary equipment OFF and UNPLUGGED Yes ___ No ___
- ALL HEATERS/FANs/PERSONAL ITEMS TAKEN HOME Yes ___ No ___

Performed by: _____

Signed off by Principal/Supervisor: _____

Safety, Comfort, Energy Savings and Sustainability!!



Should be green

Heat Maps

Should be green

Kimberly High School		Service Point 5252789057																							
Date Range	3/1/2020	To	2/28/2021																						
Meter	50502588																								
Date	TOSA	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM	12:00 AM
Monday, March 1, 2021	32.7	53.1	54.4	51.1	54.4	66.2	74	108.1	124.5	137	132.4	129.1	121.9	122.5	122.5	117.3	108.8	81.3	86.5	82.6	76.7	73.4	81.9	77.3	72.1
Tuesday, March 2, 2021	35.3	59	48.5	49.2	51.8	58.3	70.8	85.2	108.8	133	129.8	133	126.5	122.5	116	116	103.5	78	85.8	78	74	73.4	68.1	60.9	57
Wednesday, March 3, 2021	37.7	49.2	43.2	67.5	45.9	53.7	66.8	100.9	123.2	135.6	130.4	129.1	123.9	119.3	118.6	104.8	102.9	78.6	86.5	80.6	69.5	64.2	60.9	62.9	61.6
Thursday, March 4, 2021	41.1	48.5	44.6	45.9	47.8	58.3	66.2	81.9	108.1	125.8	125.8	127.1	120.6	118	114	112.7	100.9	76	82.6	76	66.8	70.1	78.6	73.4	66.8
Friday, March 5, 2021	47	50.4	44.6	45.2	46.5	54.4	61.6	72.1	73.4	65.5	64.2	60.9	59	62.3	69.5	73.4	63.6	50.4	59	48.5	38.7	38.7	39.3	41.3	43.9
Saturday, March 6, 2021	44.9	45.9	44.6	44.6	45.9	45.2	49.2	45.2	46.5	40.6	33.4	28.8	29.5	29.5	30.8	29.5	30.1	32.8	40	38.7	43.9	42.6	42.6	41.3	43.9
Sunday, March 7, 2021	40.3	43.9	44.6	49.2	45.9	49.8	53.7	53.1	53.7	41.9	37.3	37.3	28.8	30.1	24.9	27.5	26.2	24.9	34.1	35.4	41.9	39.3	40.6	41.3	42.6
Monday, March 8, 2021	37.4	44.6	43.9	45.2	48.5	60.3	62.9	83.2	113.4	134.3	134.3	131.1	123.2	117.3	116	116.6	106.2	79.3	86.5	81.9	72.1	74.7	71.4	72.7	58.3
Tuesday, March 9, 2021	35.2	47.2	43.2	45.2	48.5	62.9	69.5	87.2	105.5	125.8	128.4	133	124.5	121.2	117.3	115.3	107.5	81.3	85.8	82.6	73.4	78	78	74	70.8
Wednesday, March 10, 2021	35.6	51.1	43.2	46.5	49.2	59.6	64.2	89.1	119.9	137	134.3	128.4	125.2	123.9	121.9	121.2	110.1	80	85.2	78.6	73.4	75.4	73.4	74	78.6
Thursday, March 11, 2021	32.4	56.4	50.4	52.4	51.1	60.9	66.2	91.1	109.4	132.4	137.6	138.3	125.2	123.2	117.3	116.6	103.5	78.6	86.5	82.6	74.7	74.7	76	74.7	74.7
Friday, March 12, 2021	34.3	60.9	45.9	47.2	50.4	62.3	66.8	87.2	92.4	118.6	119.3	119.3	115.3	110.1	108.8	103.5	90.4	74.7	81.3	75.4	68.1	68.8	71.4	72.7	73.4
Saturday, March 13, 2021	38	74	73.4	74	73.4	76.7	80	80.6	78	66.8	62.9	63.6	60.9	60.3	59	57	41.9	64.2	50.4	48.5	47.2	43.2	42.6	42.6	44.6
Sunday, March 14, 2021	45.2	45.2	45.9 M	-7.2	45.9	47.8	51.8	51.8	49.8	34.7	28.8	32.1	26.9	24.2	27.5	24.2	22.3	22.9	32.8	34.7	38	39.3	43.9	36.7	36.7
Monday, March 15, 2021	48.4	38.7	41.3	42.6	42.6	51.1	53.7	76	108.8	135	127.8	124.5	123.2	118.6	118.6	118	105.5	76.7	72.7	68.1	74	70.8	55.7	47.8	45.9
Tuesday, March 16, 2021	37.7	43.9	38.7	40	43.2	43.2	51.1	82.6	104.2	137.6	137	137	125.8	121.9	119.3	116.6	105.5	80	74.7	66.8	74.7	71.4	70.1	68.8	67.5
Wednesday, March 17, 2021	43.2	50.4	41.9	41.3	43.2	45.9	53.7	83.9	114	128.4	121.9	123.2	119.3	116	118.6	114.7	103.5	76	68.8	64.9	67.5	59.6	57	45.2	47.2
Thursday, March 18, 2021	50.8	45.9	41.3	40.6	41.3	44.6	49.8	76	104.8	124.5	124.5	125.2	119.3	119.9	121.9	121.2	106.8	80	69.5	45.2	53.1	44.6	44.6	47.2	46.5
Friday, March 19, 2021	48.9	38.7	36.7	36.7	36.7	36.7	43.2	64.9	91.1	94.4	94.4	104.2	107.5	101.6	90.4	87.2	77.3	57.7	42.6	36	44.6	40	36.7	36	36.7
Saturday, March 20, 2021	39.7	38	36.7	36.7	36.7	36.7	41.3	45.9	63.6	61.6	59	59	57	56.4	56.4	59.6	61.6	57	57	61.6	64.9	69.5	66.8	67.5	68.1
Sunday, March 21, 2021	36	69.5	68.8	70.1	70.1	68.8	76.7	81.3	80.6	70.8	66.2	62.3	60.9	60.3	41.3	36	28.2	33.4	26.9	31.5	36.7	43.9	41.9	42.6	43.2
Monday, March 22, 2021	36.5	44.6	41.9	46.5	43.9	41.3	51.8	60.3	56.4	59.6	62.9	59	59	60.3	57.7	57	57.7	45.2	39.3	32.1	38.7	35.4	32.1	32.1	32.1
Tuesday, March 23, 2021	32.5	33.4	32.1	33.4	38.7	36	43.9	49.8	52.4	49.8	48.5	62.9	62.3	59.6	50.4	45.2	41.9	38.7	38	32.1	39.3	34.1	32.1	31.5	32.1
Wednesday, March 24, 2021	37.3	32.8	33.4	34.1	38.7	40.6	48.5	47.2	50.4	41.9	40	39.3	39.3	40	38.7	40.6	38	38	38	31.5	39.3	32.8	31.5	31.5	31.5
Thursday, March 25, 2021	35.5	32.8	32.1	31.5	37.3	40.6	41.3	45.9	49.8	41.3	39.3	40	40.6	40	40.6	41.9	41.3	39.3	43.2	34.1	40.6	34.1	34.7	32.8	33.4
Friday, March 26, 2021	38.1	34.7	34.7	38.7	39.3	39.3	46.5	46.5	50.4	42.6	41.9	42.6	41.9	47.8	55	51.1	46.5	43.9	40	33.4	40.6	34.7	34.1	33.4	33.4
Saturday, March 27, 2021	44.7	34.7	32.8	32.8	33.4	35.4	40.6	41.9	40.6	29.5	30.8	26.9	26.2	23.6	26.2	24.2	26.2	22.3	22.3	22.3	30.1	32.1	33.4	31.5	31.5
Sunday, March 28, 2021	56	31.5	32.1	31.5	31.5	34.1	35.4	40.6	40	26.9	28.8	22.9	21.6	21.6	21.6	22.3	21	20.3	20.3	21.6	28.8	31.5	31.5	30.8	30.1
Monday, March 29, 2021	37.5	31.5	30.8	30.8	31.5	33.4	45.2	78	164.4	139.6	129.8	128.4	125.8	119.9	119.9	115.3	109.4	85.2	80	80	70.8	41.9	42.6	41.9	43.9
Tuesday, March 30, 2021	33	43.9	43.9	45.9	46.5	52.4	61.6	83.9	108.8	131.7	133.7	129.8	123.2	121.9	119.3	116.6	99.6	59	54.4	53.1	55	43.2	43.2	44.6	44.6
Wednesday, March 31, 2021	39.3	42.6	44.6	46.5	47.2	51.8	65.5	89.1	107.5	131.7	128.4	128.4	122.5	123.2	119.9	118	105.5	68.1	60.9	46.5	38.7	34.1	34.7	34.7	35.4



Musgrove Engineering Savings Opportunities

Item or System	Recommendation	Priority*	Eligible for Idaho Power Incentive	Estimated Measure Cost	Estimated Annual Savings	\$ Savings \$0.05/kWh \$0.40/Them	Estimated Idaho Power Incentive	Estimated Simple Payback
HVAC System	Repair broken outside air dampers and actuators at KMS.	1	No	-	-		-	-
Envelope	Install door sweeps on exterior doors & repair window gasket seal at KMS/KHS.	2	No	-	-		-	-
HVAC System	Verify proper economizer control operation at KHS/TE. Fix non-functional economizer if required.	3	Yes (Retrofit) \$50 per connected cooling ton. See IPCO HVAC/Controls Worksheet for more info.	-	-		-	-
Domestic Hot Water System	Install programmable timeclocks on domestic hot water recirculation pumps at KMS.	4	Maybe (Custom) \$0.18/kWh/yr up to 70% of cost.	\$400	1,916 kWh	\$96	\$345	0.6
Domestic Hot Water System	Install programmable timeclocks on domestic hot water recirculation pumps at KHS/TE Building.	5	Maybe (Custom) \$0.18/kWh/yr up to 70% of cost.	\$600	1,327 kWh	\$66	\$239	5.4
Exterior Lighting	Replace exterior lights with lower wattage LED lamps at KHS/TE.	6	Yes (Retrofit) See IPCO Lighting Tool for details.	\$13,200	22,893 kWh 5.6 kW	\$1,145	\$4,121	3.5
Exterior Lighting	Replace exterior lights with lower wattage LED lamps at KMS.	7	Yes (Retrofit) See IPCO Lighting Tool for details.	\$8,950	7,956 kWh 2.0 kW	\$398	\$1,432	3.4
Domestic Hot Water System	Replace sinks and lavatory faucet heads with low-flow aerators at KMS/KHS/TE Building.	8	No	-	-		-	-
HVAC - Building Automation	Add digital control system to KHS/TE. (Must be done with #10)	9	Yes (Retrofit) \$10/ton for 2 strategies up to \$200/ton for 5 strategies.	\$228,645	247,603 kWh, 35.8 kW, 14,550 therms	\$20,700	\$37,700	9.2
HVAC - Building Automation	Add stand-by mode operation at KHS/TE. (must be done with #9)	10	Maybe (Custom) \$0.18/kWh/yr up to 70% of cost.	\$13,058	72,544 kWh	\$3,627	\$13,058	4
Interior Lighting	Replace interior lights with lower wattage LED lamps at KHS & TE.	11	Yes (Retrofit) See IPCO Lighting Tool for details.	\$114,323	143,333 kWh 61.0 kW	\$7,167	\$25,800	9.7
Interior Lighting	Replace interior lights with lower wattage LED lamps at KMS.	12	Yes (Retrofit) See IPCO Lighting Tool for details.	\$93,323	101,091 kWh 49.8 kW	\$5,055	\$18,196	11.4
Total				\$472,499		\$38,253	\$100,891	3.40

STRATEGY IDEAS Progress Process MEETING Business Future Innovation Dialog IDEAS Forum
Discuss Communication
Next Steps
QUESTIONS Exploration IDEAS Connection Session TALK Creativity BUSINESS FUTURE FORWARD
PROPOSAL Strategy