



Nogales Unified School District

ENERGY UPDATE – Through December 2016

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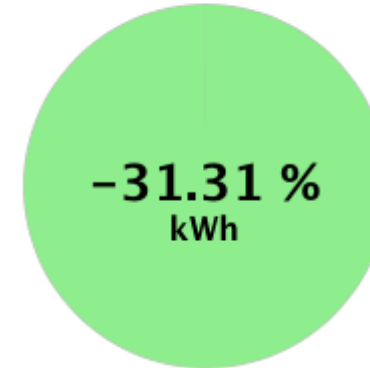
PIERCE ENERGY PLANNING
HELPING SAVE ENERGY DOLLARS

District Snapshot

October

Organizational YTD Energy Change		
	Oct-2016 to Oct-2016	Oct-2015 to Oct-2015
Total Usage (kWh)	410,979	598,317
Total Cost (\$)	68,203.89	86,090.31
% Change Usage		31.31% ↓
% Change Cost		20.78% ↓

Percentage Change Usage



Percentage Change Cost



*Table displays data from utility bills and reflects electric usage of all meters at campuses.



Monthly Electric (kWh) and Cost (\$) Compared

October

Location ↕	Oct-2016		Oct-2015		Percentage Change	
	Usage (kWh) ↕	Cost (\$) ↕	Usage (kWh) ↕	Cost (\$) ↕	Usage ↕	Cost ↕
Nogales High School	135,077	21,517.84	245,727	30,155.83	45.03↓	28.64↓
Wade Carpenter Middle School	30,046	5,000.36	46,286	6,619.94	35.09↓	24.47↓
A.J. Mitchell Elementary	26,460	5,106.34	39,273	6,208.27	32.63↓	17.75↓
District Support Services	4,722	641.26	6,799	894.41	30.55↓	28.30↓
Challenger Elementary	35,000	5,525.11	50,000	7,152.71	30.00↓	22.76↓
Lincoln Elementary School	24,735	4,480.28	35,097	5,745.36	29.52↓	22.02↓
Mary Welty Elementary	19,559	3,260.56	24,595	3,742.50	20.48↓	12.88↓
Desert Shadows Middle School	36,000	5,569.09	44,160	6,784.13	18.48↓	17.91↓
District Office	15,520	2,128.95	18,320	2,394.64	15.28↓	11.10↓
Robert M. Bracker Elementary School	16,200	2,960.40	18,000	3,124.68	10.00↓	5.26↓
Francisco Vasquez de Coronado Elementary School	37,920	6,273.21	39,680	7,721.11	4.44↓	18.75↓
Pierson Vocational High School	29,740	5,740.49	30,380	5,546.73	2.11↓	3.49↑

Schools in Categories:

> 10% savings = 10
 0 – 10% savings = 2
 Energy gain = 0

*Table displays data from utility bills and reflects electric usage of all meters at campuses.

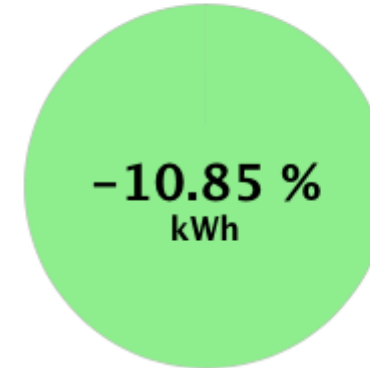


District Snapshot

November

Organizational YTD Energy Change		
	Nov-2016 to Nov-2016	Nov-2015 to Nov-2015
Total Usage (kWh)	339,696	381,027
Total Cost (\$)	60,109.08	65,613.82
% Change Usage		10.85% ↓
% Change Cost		8.39% ↓

Percentage Change Usage



Percentage Change Cost



*Table displays data from utility bills and reflects electric usage of all meters at campuses.



Monthly Electric (kWh) and Cost (\$) Compared

November

Location ↕	Nov-2016		Nov-2015		Percentage Change	
	Usage (kWh) ↕	Cost (\$) ↕	Usage (kWh) ↕	Cost (\$) ↕	Usage ↕	Cost ↕
A.J. Mitchell Elementary	16,130	4,145.31	22,148	4,916.84	27.17↓	15.69↓
District Office	10,880	1,794.91	13,600	1,980.39	20.00↓	9.37↓
Nogales High School	116,996	19,084.51	140,161	21,810.16	16.53↓	12.50↓
Wade Carpenter Middle School	22,944	4,292.60	26,058	4,870.35	11.95↓	11.86↓
Pierson Vocational High School	21,140	4,907.52	23,240	4,923.33	9.04↓	0.32↓
Challenger Elementary	28,400	4,684.92	31,120	5,131.01	8.74↓	8.69↓
Lincoln Elementary School	17,355	3,783.87	18,885	4,300.87	8.10↓	12.02↓
Desert Shadows Middle School	38,400	5,427.79	40,160	5,766.63	4.38↓	5.88↓
Robert M. Bracker Elementary School	15,360	2,748.70	15,960	2,633.94	3.76↓	4.36↑
Francisco Vasquez de Coronado Elementary School	30,880	5,804.46	30,560	6,097.22	1.05↑	4.80↓
Mary Welty Elementary	17,160	2,874.25	15,501	2,682.24	10.70↑	7.16↑
District Support Services	4,051	560.24	3,634	500.84	11.47↑	11.86↑

Schools in Categories:

- > 10% savings = 4
- 0 – 10% savings = 5
- Energy gain = 3

*Table displays data from utility bills and reflects electric usage of all meters at campuses.

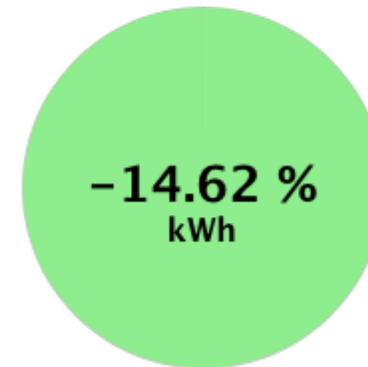


District Snapshot

December

Organizational YTD Energy Change		
	Dec-2016 to Dec-2016	Dec-2015 to Dec-2015
Total Usage (kWh)	315,937	370,016
Total Cost (\$)	56,398.48	63,267.49
% Change Usage		14.62% ↓
% Change Cost		10.86% ↓

Percentage Change Usage



Percentage Change Cost



*Table displays data from utility bills and reflects electric usage of all meters at campuses.



Monthly Electric (kWh) and Cost (\$) Compared

December

Location	Dec-2016		Dec-2015		Percentage Change	
	Usage (kWh)	Cost (\$)	Usage (kWh)	Cost (\$)	Usage	Cost
A.J. Mitchell Elementary	18,176	4,292.99	24,145	4,686.68	24.72↓	8.40↓
Nogales High School	95,015	16,233.41	124,068	20,266.17	23.42↓	19.90↓
District Office	10,000	1,724.81	12,320	1,897.53	18.83↓	9.10↓
Wade Carpenter Middle School	22,138	4,186.23	26,384	4,906.50	16.09↓	14.68↓
Pierson Vocational High School	22,380	5,075.97	25,640	5,028.90	12.71↓	0.94↑
Desert Shadows Middle School	35,840	5,072.65	40,320	5,797.41	11.11↓	12.50↓
Lincoln Elementary School	20,772	3,980.07	23,314	3,804.32	10.90↓	4.62↑
Francisco Vasquez de Coronado Elementary School	32,000	5,681.01	35,200	6,438.94	9.09↓	11.77↓
Robert M. Bracker Elementary School	15,000	2,533.93	15,360	2,601.41	2.34↓	2.59↓
Challenger Elementary	23,840	4,346.26	23,960	4,606.17	0.50↓	5.64↓
District Support Services	3,650	508.78	3,524	488.68	3.58↑	4.11↑
Mary Welty Elementary	17,126	2,762.37	15,781	2,744.78	8.52↑	0.64↑

Schools in Categories:

- > 10% savings = 7
- 0 – 10% savings = 3
- Energy gain = 2

*Table displays data from utility bills and reflects electric usage of all meters at campuses.



Monthly Demand (KW)

October -
December 2016

CAMPUS NAME	DEC (KW)		NOV (KW)		OCT (KW)	
	2016	2015	2016	2015	2016	2015
R.M. Bracker Elementary K-5	84	79	99	88	109	118
Challenger K-5	149*	73	149	140	169	209
Coronado Elementary K-5	74	73	142	104	142	227
Lincoln Elementary K-5	34	35	53	46	58	75
A.J. Mitchell Elementary K-5	56	63	81	136	117	136
Mary Welty Elementary K-5	50	62	72	59	83	88
Desert Shadows MS 6-8	164	140	176	187	193	245
Wade Carpenter MS 6-8	66	114	77	114	90	122
Nogales High School	330	389	449	478	482	542
Pierson Voc. High School	33	117*	48	117*	67	117*
District Office	53	56	41	55	54	62
District Support Services	/	8	/	15	/	23

RED= Increase from
previous month/year

*= Estimated Ratchet
Demand

*Table displays data from utility bills and reflects electric usage of all meters at campuses.



ENERGY STAR Scores

Year ending
November 30, 2016

CAMPUS	Current	Previous
Mary Welty Elementary K-5	100	100
Pierson Voc. High School	100	100
A.J. Mitchell Elementary K-5	100	99
Lincoln Elementary K-5	100	99
R.M. Bracker Elementary K-5	99	100
District Office (office)	99	99
Desert Shadows MS 6-8	99	98
Wade Carpenter MS 6-8	99	98
Challenger K-5	98	97
Nogales High School	97	95
Coronado Elementary K-5	87	86


Schools w/ES Scores:

≥ 75 = 11
 50 - 74 = 0
 ≤ 49 = 0


ES Scores range 1 to 100 and compare total energy usage (electric, gas, and solar) to similar buildings nationwide. Building scores of 75 or above may qualify for ENERGY STAR recognition.



Updates

- 
- Recycling across the district
 - How is it going?
 - Green Teams
 - How are they doing?
 - What do you need from me?
 - More PD?
 - All-staff presentation?

Energy-Saving Tips

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- Make sure all extraneous appliances removed
 - Unplug any and all electronics
 - Completely turn off computers on weekends and holidays
 - Bump thermostat up
 - Make sure all doors and windows remain closed
 - Close all blinds on windows when not in classroom
 - Timers on Laptop Carts
 - Think about removing unused vending machines