



Nogales Unified School District

ENERGY UPDATE and FY 2016-2017 GOALS

Auriane Koster, Ph.D. – Sustainability Manager
Lisa Clifton – Data Manager
Jessie Zhou – Client Data Manager
Sue Pierce – CEO

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PIERCE ENERGY PLANNING
HELPING SAVE ENERGY DOLLARS

Quarter 3 Electric (kWh) Compared

Quarter 3

CAMPUS NAME	FY2015-2016 (kWh)	FY2014-2015 (kWh)	% CHG
R.M. Bracker Elementary K-5	47,040	86,400	-46%
Wade Carpenter MS 6-8	112,800	197,600	-43%
Coronado Elementary K-5	86,080	136,320	-37%
Challenger K-5	70,440	93,520	-25%
Desert Shadows MS 6-8	83,445	108,218	-23%
Mary Welty Elementary K-5	47,719	60,078	-21%
Nogales High School	311,508	387,038	-20%
A.J. Mitchell Elementary K-5	66,367	73,458	-10%
Lincoln Elementary K-5	76,032	84,149	-10%
Pierson Voc. High School	95,760	99,320	-4%
District Support Services	11,703	11,373	3%
District Office	38,560	37,440	3%
TOTAL (kWh)	1,047,454	1,374,914	-24%

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



Monthly Electric (kWh) Compared

April

CAMPUS NAME	FY2015-2016 (kWh)	FY2014-2015 (kWh)	% CHG
R.M. Bracker Elementary K-5	14,520	30,720	-53%
Desert Shadows MS 6-8	42,080	57,920	-27%
Wade Carpenter MS 6-8	20,766	28,286	-27%
Challenger K-5	23,320	31,760	-27%
Coronado Elementary K-5	31,040	41,280	-25%
Nogales High School	95,943	127,477	-25%
Lincoln Elementary K-5	19,216	24,140	-20%
Mary Welty Elementary K-5	15,243	18,972	-20%
A.J. Mitchell Elementary K-5	17,032	20,874	-18%
Pierson Voc. High School	22,980	26,160	-12%
District Office	10,960	11,280	-3%
District Support Services	3,254	3,311	-2%
TOTAL (kWh)	316,354	422,180	-25%

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



Monthly Electric (kWh) Compared

May

CAMPUS NAME	FY2015-2016 (kWh)	FY2014-2015 (kWh)	% CHG
R.M. Bracker Elementary K-5	14,640	33,960	-57%
Nogales High School	100,330	171,069	-41%
Coronado Elementary K-5	28,480	48,000	-41%
Desert Shadows MS 6-8	41,760	69,280	-40%
Challenger K-5	23,840	37,640	-37%
Wade Carpenter MS 6-8	21,616	31,086	-30%
A.J. Mitchell Elementary K-5	17,125	24,240	-29%
Mary Welty Elementary K-5	15,672	22,052	-29%
Lincoln Elementary K-5	18,323	25,514	-28%
Pierson Voc. High School	20,960	25,140	-17%
District Support Services	3,074	3,489	-12%
District Office	10,960	11,680	-6%
TOTAL (kWh)	316,780	503,150	-37%

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



Year-to-Date Electric (kWh) Compared

July 2015- May 2016



CAMPUS NAME	FY2015-2016 (kWh)	FY2014-2015 (kWh)	% CHG	Construction Completion
R.M. Bracker Elementary K-5	202,920	378,240	-46%	Sep-15
Desert Shadows MS 6-8	466,400	810,400	-42%	Sep-15
Coronado Elementary K-5	383,680	495,680	-23%	Nov-15
Mary Welty Elementary K-5	198,714	240,611	-17%	Sep-15
Wade Carpenter MS 6-8	339,786	390,455	-13%	Jan-16
Challenger K-5	372,200	416,480	-11%	Jan-16
Lincoln Elementary K-5	271,614	303,226	-10%	Nov-15
Pierson Voc. High School	316,320	348,020	-9%	May-15
Nogales High School	1,651,417	1,815,557	-9%	Jan-16
A.J. Mitchell Elementary K-5	282,815	298,239	-5%	Feb-16
District Office	167,040	165,760	1%	N/A
District Support Services	54,237	50,052	8%	N/A
TOTAL (kWh)	4,707,143	5,712,720	-18%	

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



ENERGY STAR Scores

Year Ending April 30, 2016

CAMPUS	Apr-16	Mar-16
Mary Welty Elementary K-5	100	100
Pierson Voc. High School	100	100
District Office	98	98
A.J. Mitchell Elementary K-5	98	98
Lincoln Elementary K-5	99	99
Wade Carpenter MS 6-8	97	96
R.M. Bracker Elementary K-5	99	98
Challenger K-5	94	93
Nogales High School	91	90
Desert Shadows MS 6-8	97	96
Coronado Elementary K-5	78	76
District Support Services	n/a	n/a

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.



FY 2015-2016 Achievements

Accomplishments

- 12-hour Professional Development with teachers representing all schools
- Performed mid-construction walk throughs
- Teacher from NHS brought Dr. Koster to eco-casa in Nogales Sonora
- Met with every principal to discuss energy conservation/sustainability at their school
- All-staff presentations at all schools
- Helped schedule Unisource presentation to teach students about energy
- Distributed Mechanical Improvements Tip Sheet to all faculty/staff
- Developed district Energy Guidelines
- Presented to all Head Custodians
- Presented to all district staff
- Presented to nutrition services



FY 2015-2016 Achievements



- Helped determine unoccupied spaces and get them in unoccupied mode
- Review EMS and provide insight
- Provide strategies on reducing demand
- Presented to School Board on achievements (October and June)
- Monthly energy data presentation to principals and leadership
- Supported Lincoln's Energy Club and Contest
- Presented to Challenge group at Challenger Elementary School and Mary Welty Elementary School
- Supported in getting timers on laptop carts throughout district
- Acted as a liaison between teachers and mechanical-improvements team



FY 2015-2016 Achievements



- Monthly energy tips sent to all faculty/staff
- Recycled over 10 years worth of hard drives
- Developed, monitored, and updated an Energy Savings Program portion of the newly revamped district website
- Translated all relevant documents to Spanish for website
- Attended and provided insights during post-construction walk throughs
- Toured all schools during summer break to ensure maximum energy savings
- Initiated possible district-wide recycling program
- Providing support to get district Kill-a-Watt Meters and Infrared Thermometers
- Developing energy/sustainability training for NUSD safe schools



Goals for FY 2016-2017

Expected Results

- Continue to Support Teachers and Curriculum Development
- Continue to Develop and Support Green Teams
- Continue to Provide Monthly Monitoring and Energy Reports from Utility Bills and ENERGY STAR
- Apply for and Award ENERGY STAR Certification to all Schools
- Further Develop District-Wide Recycling Initiative
- Continue to Monitor and Update Energy Savings Program Portion of District Website





Thank You!

Questions?

