

PRESENTERS



Dr. Michael Hester
Superintendent



Rick Vance, CEM, CXA, LEED BD+C
Business Development Executive

BATESVILLE SCHOOL DISTRICT

At Batesville School District (BSD) our mission is to **Empower Today's Students for Tomorrow's Challenges**. We create space for opportunity and innovation because our vision is **Every Student Growing Everyday**. We are Pioneer Nation!



ENTEGRITY SERVICES

Entegrity is an Energy Services Company specializing in the implementation of energy conservation and renewable energy projects. Entegrity is uniquely qualified to deliver innovative and sustainable solutions to OPTIMIZE BUILDING PERFORMANCE.

- Energy Savings Performance Contracting
- LED Lighting
- Commissioning & Retro-Commissioning
- Building Envelope & Building Testing
- Solar / Renewable Energy
- Water Conservation
- Energy Auditing & Energy Modeling
- Sustainability Consulting





RETAIN STAFF



ATTRACT STUDENTS







CONSTRAINED BUDGET

Options for Batesville school restructuring presented to public





ENERGY SAVINGS PERFORMANCE CONTRACTING

Energy Savings Performance Contracting (ESPC) allows public entities to procure energy saving improvements with no upfront capital costs and repay the project cost with savings. All energy and operational savings required by law to be guaranteed by the ESCO.

- O NO UPFRONT CAPITAL
- PAID FROM SAVINGS
- GUARANTEED



ARKANSAS LEGISLATION

K-12 Schools 2005 - Legislative Rule

State Agencies/Higher Education 2013- Act 554

Cities & Counties

2015- Act 1227

2011 - Amendment 89





Entegrity | Batesville School District

THE OPPORTUNITY

BATESVILLE FACILITY OPERATION COSTS

A. All Utilities, Base Year

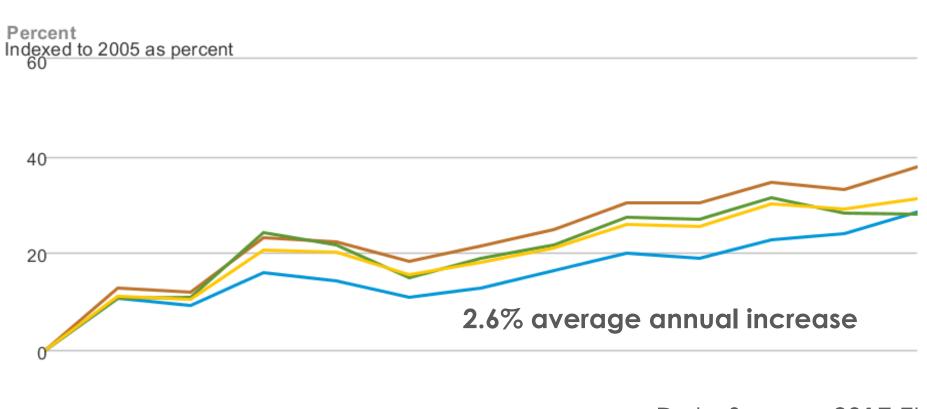
Fuel Type	Unit	Base Year Usage	Base Cost (\$)
Electric	kWh	3,736,733	\$431,321
Natural Gas	MMBtu	8,997	\$69,222
Water	kGAL	7,116	\$106,660
TOTALS:			\$607,203

BATESVILLE FACILITY OPERATION COSTS

Facility	Account Name	Annual Budget
Central Elementary School	HVAC Repair	\$4,447
Central Elementary School	HVAC Replacement	\$4,325
West Elementary School	HVAC Repair	\$5,760
West Elementary School	HVAC Replacement	\$17,350
Batesville Junior High School	HVAC Repair	\$1,975
Batesville Junior High School	HVAC Replacement	\$25,280
Batesville High School	HVAC Repair	\$8,330
Batesville High School	HVAC Replacement	\$33,035
Eagle Mountain Elementary School	HVAC Repair	\$5,144
Eagle Mountain Elementary School	HVAC Replacement	\$14,552
Sulphur Rock Elementary School	HVAC Repair	\$3,844
Sulphur Rock Elementary School	HVAC Replacement	\$9,723
Administration	HVAC Repair	\$2,654
TOTALS:	-	\$136,419.00

ELECTRIC POWER COST INFLATION









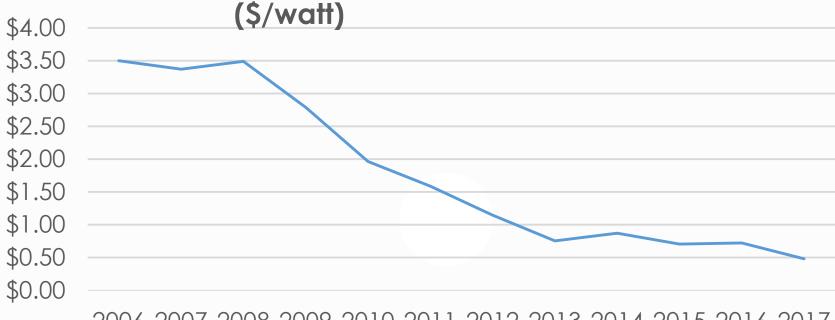
MHA NOMS

- Improved Technologies
- Lower Implementation Costs
- Historically Low Interest Rates
- Rising Operational Costs
- **Available Financial** Incentives



SOLAR MATERIAL COST REDUCTION





2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017

-Average value of photovoltaic modules,...



Independent Statistics & Analysis

U.S. Energy Information Administration

Data Source: 2017 EIA Report



BATESVILLE PROJECT SUMMARY

Project Benefits

- Approximately 40% reduction in electric energy
- Savings cover 125% of costs with positive cash balance
 each year
- Over \$200,000 in co-funding support from utilities
- Improved student comfort and student learning
- Enhanced building aesthetics, energy independence
- Integration of project with student curriculum



BATESVILLE SCHOOLS PROJECT PROPOSAL

Total Project Summary: All Measures

Location	Lighting	HVAC Equipment	HVAC Controls	Windows & Doors	Solar Energy	Water Conservation
Batesville High	All fixtures	17 units	All t-stats	22 windows, gym entry	600 kW	All campuses
Batesville JHS		28 units				
Sulphur Rock ES		14 units		42 windows, gym and front		
West ES				South entry only		
Central ES				12 windows		
Eagle Mountain ES						
Administration	V	5 units	•	16 windows		\
Transportation						

BATESVILLE SCHOOL DISTRICT

Project Financial Summary



Project Cost	Energy/Water	Maintenance	Capital Avoidance	Total Annual
	Savings	Savings	Savings	Savings
\$5,478,955	\$251,015	\$54,929	\$56,190	\$362,134

ANNUAL SAVINGS SUMMARY

ECM 1: Lighting

\$140,440

ECM 2: HVAC

\$86,580

ECM 3: Envelope

\$10,900

ECM 4: Water

\$27,230

ECM 5: Solar

\$96,850

Total:

\$362,000+

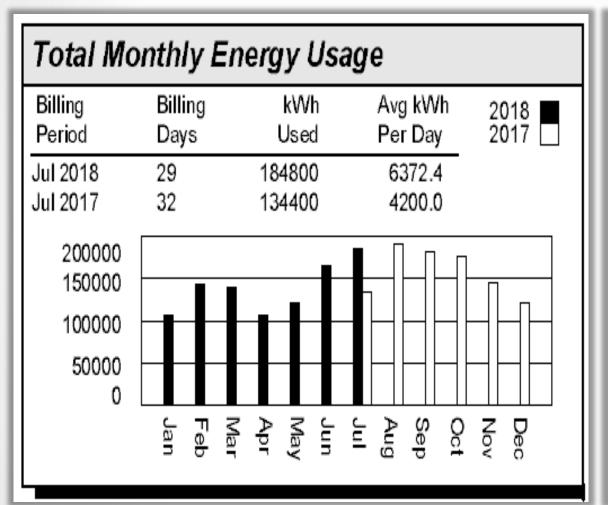
Total Rebates:

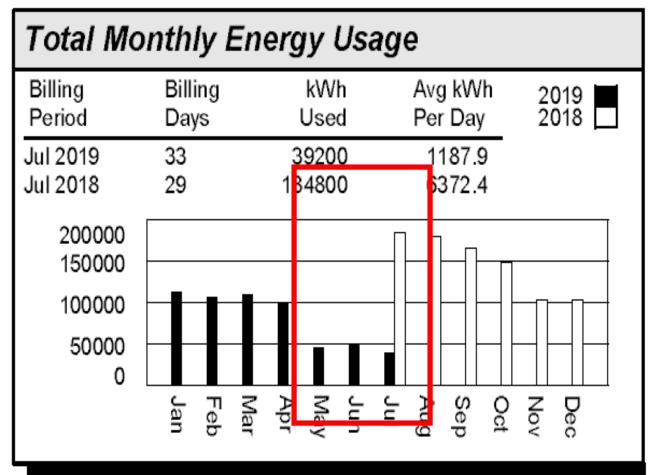
\$200,000+



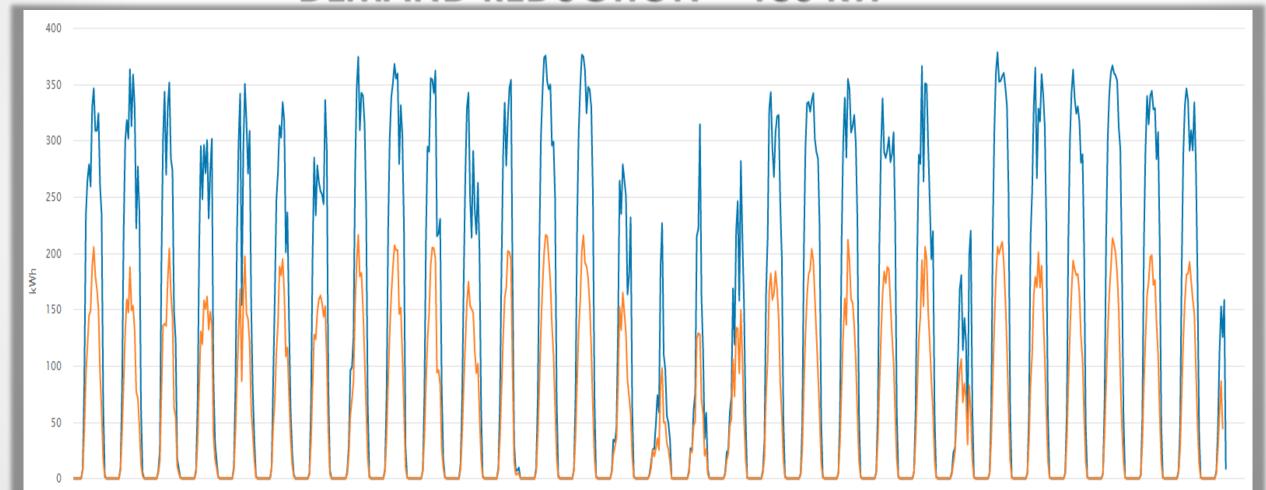


CONSUMPTION REDUCTION



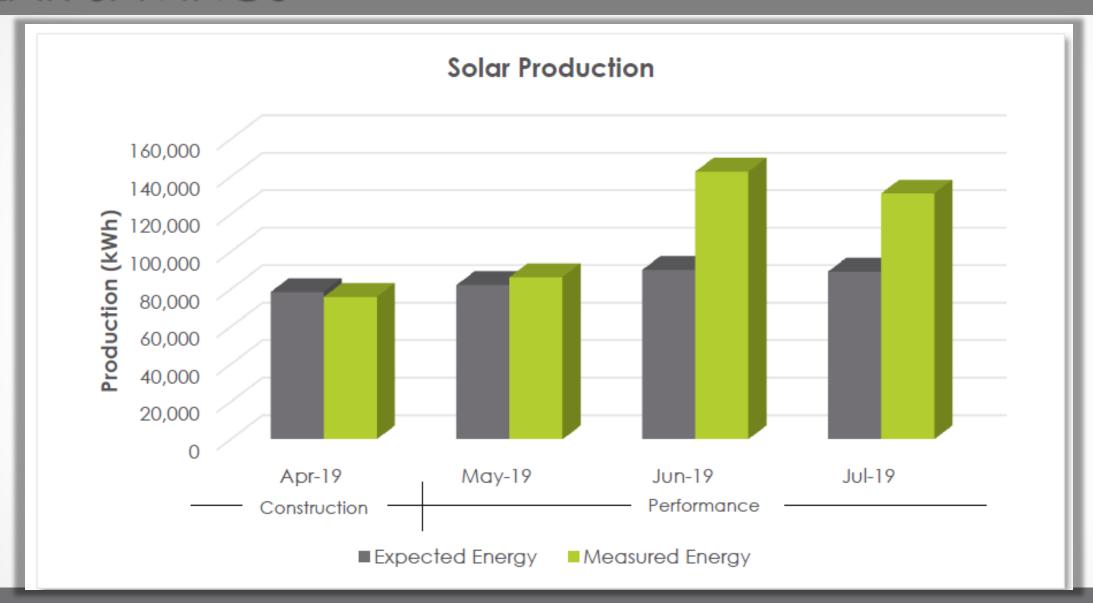


PRODUCTION = 149,862 kWh DEMAND REDUCTION = 180 kW



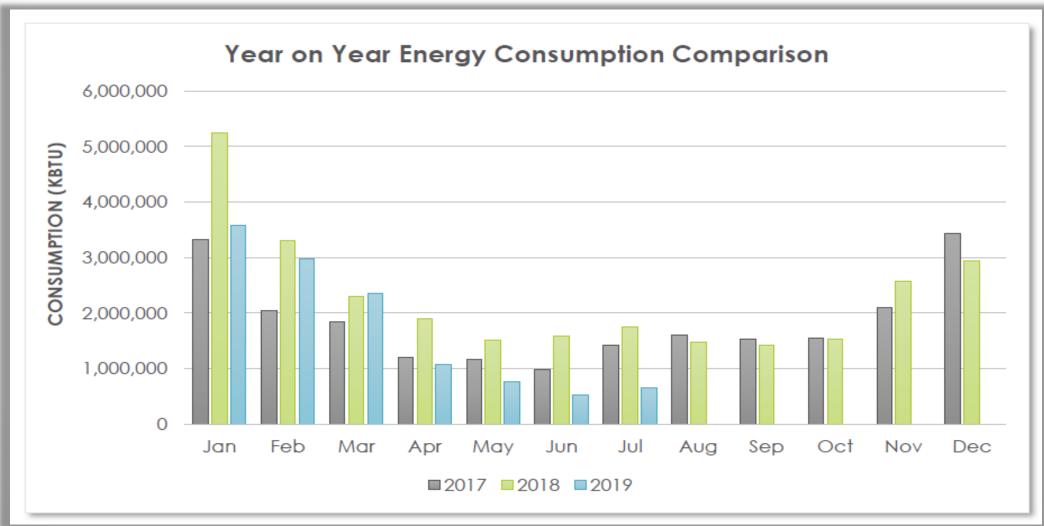
1-MONTH ELECTRIC BILL IMPACT

ITEM	AMOUNT
Current Bill	\$4,771
Current Bill No Solar	\$17,850
Gross Solar Savings	\$13,079



MEASURED SAVINGS

Q-1 M&V DATA





POSITIVE PRESS

Teachers given large raises after changes to district campuses



By Kirsten Pieri-May | April 19, 2018 at 9:13 PM CDT - Updated August 14 at 10:35 AM



(Source: KAIT

BATESVILLE, AR (KAIT) - The Batesville School Board has approved a larger raise for its teachers this year after multiple efforts by the school district to save money and be more efficient.

The board approved a 1.25% raise for all contracted employees for the 2018-19 school year.

'When you give a percentage you are able to hit the step raises whether it's your experience and your degrees plus it also then affects the base," Batesville Superintendent Dr. Michael Hester said.

He said that will mean raises from about \$1,000 to \$1,300 raises depending on the teacher.

For the past three years, raises for employees have been at 1%, but this year, the school has committed to reducing its footprint and cutting energy costs.

FDUCATION

Solar powered partnership brightens Arkansas school's future

School renovating buildings, adding solar power to save money





BSD solar project is making it rain (money)

Pay raises a direct result of solar windfall

BY MADELINE PYLE

The Batesville School District (BSD) made history by becoming the first school dis-

Director Rick Vance said. "Annual cost savings for the district exceed \$113,000 due to the solar production.

which was made possible by the project.

Thanks to the money being saved on utilities, Hester said BSD Superintendent Dr. the district will reward teachtrict in Arkansas to implement Michael Hester said that the ers who have been with the

Solar Power

What: BSD first in state to convert to solar Result: District infused \$1.2 million into pay scale for certified and classified staff this year

STEM CURRICULUM

STUDENT ENGAGEMENT

- Customized Student Engagement Programs
- STEM based Curriculums









Learning Lab. usgbc.org

"Utilities have been going up 2.1% a search year for the last 10 years, so 10 years from now, you are spending 21% more

of your budget on utilities than you are

Publish now. 27th Well, that gets into teacher

Posted by Kirsten Pieri-May, News Producer - Reporter/MMI CONNECT

atesalaries and what you can do for serve enough energy to

Superintendent Dr. Michael Hester said the school board approved these changes after hearing a presentation from an outside company, Entegrity, at a special called meeting Monday night.

"We have low-flow [water] fixtures that are going to be changed out to LED," Hester said. "We have low-flow [water] fixtures that are older. The newer ones are high-efficiency flow. So anything that's old we are going to refit."

He also said they will replace and pressurize doors and windows across the campuses and replace many old HVAC units

"Utilities have been going up 2.1% a year for the last 10 years so in 10 years from now you're going to be spending 21% more of your budget on utilities than you are now," Hester said. "Well that gets into teacher salaries and what you can do for kids so this allows us to keep that cost down."

To combat that, the school will be adding solar panels to the high school campus that will produce just under 50% of the energy the district use annually.



Dr. Michael Hester Batesville SD Superintendent

ENTEGRITY SOLAR

