



# Infrastructure Improvement Funding Programs for Virginia Public Schools

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The demands and challenges facing our clients



ABM assists public schools in creating guaranteed funding streams to advance their goals



Collaborative process reduces risk and improves project performance

## Public School Demands and Challenges ABM







Deferred Spending on Capital Projects



Need for Updated Infrastructure



Difficulty with Bond Issues



Unfunded Mandates

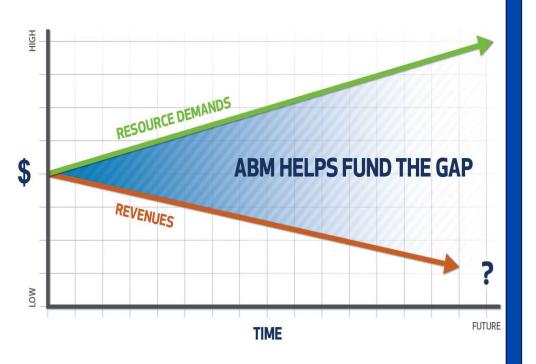


Equitable Classroom Spending



Engaged Students

#### **The New Normal**



# Changing the Capital Paradigm





# A Co-Authored Solution

ABM provides school districts with valuable information to make better decisions based on real data and its correlation to student achievement, resource allocation and finance.











#### Identifying and Funding the Gaps



#### Energy Conservation Measures (ECMs) & Infrastructure Improvements

- Building Automation Systems (BAS)
- Central Plant Optimization
- Retro Commissioning
- Demand Control Ventilation
- Energy Analytics
- VAV AHU Control
- Lab Fume Hood Retrofit
- Thermal Energy Storage System
- Building Envelope Enhancements
- Electrical Infrastructure

- Fleet Electrification and EV Charging Stations
- HVAC Mechanical
- Indoor Air Quality Improvements
- LED Lighting / Lighting Controls
- Steam System
- Plug Load Management
- Solar Panel Array (Roof, Carport or Ground)
- Water Conservation
- VFDs

ABM reviews <u>ALL</u> opportunities during full-scale project development

# Additional Infrastructure Solutions

Schools can take advantage of the following:

- Roofing
- STEM Learning Enhancements
- Fleet Electrification
- Turf Field Conversion
- Track Resurfacing
- Classroom & Bathroom Upgrades
- Playground Equipment









### Methodology & Preliminary Audit



- Data Collection and Analysis
  - Utility Bills
  - Calculated Energy Use Index
  - Benchmark Against DOE/CBECS
- Site Visits and Interviews
- Feasibility Study Results
  - Preliminary List of Energy Conservation Measures (ECM)
  - Financial Potential: Self-Funded Solutions and CIP Projects
- Develop a co-authored solution to support your mission







### Sample Utility Profile & Savings Summary

	Uitility Cost (\$)									Electricity & Natural Gas				Savings				
Property Name	Square Feet	Utility		2018	2018 Total	\$/Sqft (2018)		2019	2019 Total		/Sqft 019)	2018 kBTU	2018 EUI	2019 kBTU	2019 EUI	0.000	ential \$ ovings	Potential % Savings
		Electric	\$	160,485			\$	159,977										
High School	222,902	NG	\$	36,992	\$207,831.00	\$ 0.93	\$	45,489	\$215,278	\$ 0.97	0.97	11,296,053	50.68	12,767,233	<u>57.28</u>	\$ 62,431	29%	
riigii School		Water	\$	10,353			\$	10,712										
		Electric	\$	185,452	\$225,429.00	\$ 1.18	\$	186,252	\$247,275	\$ 1.30							5 20%	
Middle School	190,478	NG	\$	29,624			\$	50,311			1.30	10,606,373	<u>55.68</u>	15,078,068	<u>79.16</u>	\$ 49,455		
Wilddle School		Water	\$	10,353			\$	10,712										
	40,363	Electric	\$	29,840	\$50,329.00		\$	34,112	\$54,197	\$ 1.34			2 <u>62.60</u>	2,610,684	64.68			
Elementary School		NG	\$	10,136		\$ 1.25	\$	9,373			1.34	2,526,912				\$	15 175	28%
		Water	\$	10,353			\$	10,712										
									\$516,750					30,455,985		\$1	27,061	25%



Sample - Funding Using Your Existing Budget





\*Sample Savings

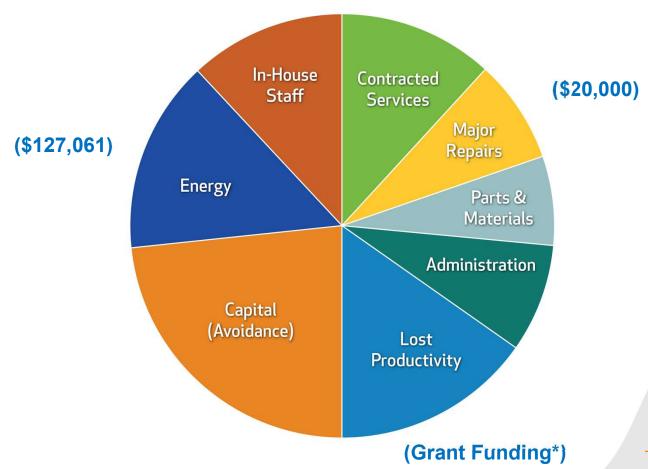
#### Funding the Solution



#### **FUNDING**

Solutions are funded through existing operating budget







#### Capital Volatility Analysis (EXAMPLE) 15-Yr Capital Planning Tool

Facility	Identification	Grade	Manufacturer	Model	Serial	Install Date	Tons / HP / BTU's	Remaining Useful Life/yrs
High School (Café ceiling side rm)	FCU-4	D	Trane	DNR	DNR	2000	3.5	2
High School (Café)	Cond-4	D	Trane	TTB042C100A1	R032NUXBF	2000	3.5	2
High School (Café hall)	AHU-1	F	DNR	(heat only, failed)	DNR	2000	7.5	0
High School (Café hall)	AHU-2	F	DNR	(heat only, failed)	DNR	2000	7.5	0
High School (Café)	KEF (qty 7)	F	CentriMaster	PNU135RG, 0.75hp	TYE590407	2000	7	0
High School (Café)	KSF (qty 3)	D	MasterVent	AFSN126K2, 1.5hp	TYE59012	2000	3	2
High School (Auditorium)	AHU-9	С	Trane	DNR	R038948	2000	15	5
High School (Auditorium)	Cond-9	D	Trane	TTA180B300CC	P4312JEAH	1999	15	2
High School (Auditorium)	AHU-10	С	Trnae	DNR	R01938503	2000	15	7
High School (Auditorium)	Cond-10	D	Trane	TTA180B300CC	P4312JEAH	1999	15	2
High School (Auditorium)	AHU-7	С	Trane	MCCA017, 8500 cfm / 5hp	K00B30270	2000	40	6

Assets									
Average Grade	Qty	%	Present \$ Value	% Dollar Value					
A	0	0.0%	\$ -	0.0%					
В	61	33.0%	\$ 6,277,732	15.8%					
С	66	35.7%	\$ 20,621,217	52.0%					
D	50	27.0%	\$ 7,550,965	19.0%					
F	8	4.3%	\$ 5,240,600	13.2%					
TOTAL	185		\$ 39,690,514	100000					

Capital Exposure over Term								
Yrs 0-5 Yrs 6-10 Yrs 11-15								
\$13,302,677 \$14,626,311 \$11,761,526								



# ABM Program Benefits

## Improve your Learning Environment and Learning Experience



• Meet CRITICAL facility needs



Without increasing taxpayer burden



- Create energy & operational savings to fund upgrade facilities
- Becomes a long-term partner with you for financial assistance, capital improvement planning, and guaranteed savings



# Energy & Operational Savings Program

Why?

- Meet CRITICAL facility needs
- Offset rising energy costs
- Requires no upfront capital, Fund through reduced utility, operating costs, and revenue enhancements
- Can leverage Grants, Rebates, and other Incentives
- · Without increasing taxpayer burden
- Preferred Equipment & Sub-contractor input
- Single contract that covers the entire scope of work at all included facilities
- Project Performance Guarantee
- Co-Authored Process with Dedicated Local Team of Facility and Funding Specialists
- Results MUST be guaranteed & reported
- Fixed Fee Contract, No Change Orders...Unless Customer Initiated
- Alternative Funding Options provide Attractive Repayment Structure
  - Debt Consolidation
  - Professional Services Agreement

### Why ABM?

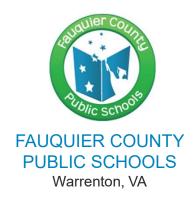
- Facility Solutions Experts
- Dedicated Local Team
- Community and Student Engagement
- Financial Acumen
  - CIP planning tool
  - Grants / rebates / incentives
- Co-Authored Process
- Expedited Delivery Fast Track Process
- Single Point of Accountability
- Proven Track Record of Demonstrated Success



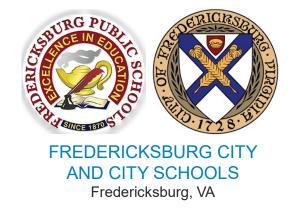
## K-12 Schools and Local Governments Benefit From Financial & Technical Solutions



















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SCHOOLS
Lawrenceville, VA



Market-leading provider of comprehensive facility services with best-in-class presence and client relationships

Unparalleled reach | Diverse portfolio | Trusted reputation

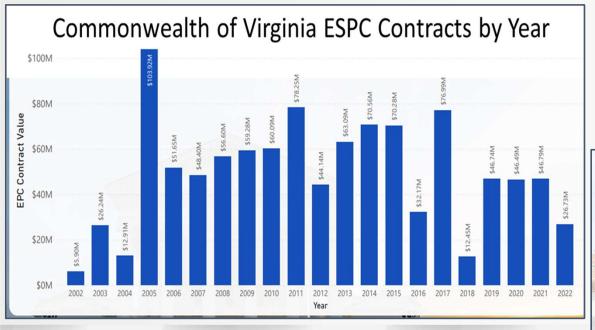
#### **Solution Timeline**





## Virginia's ESPC Program

Program Established in 2002





Over \$1B in Project Investment

