



THE SCHOOL DISTRICT OF  
PHILADELPHIA



# Guaranteed Energy Savings Agreement (GESA) Pilot

Presentation to the School Reform Commission

May 17, 2018

# Agenda

**Guaranteed Energy Savings Act (GESA) Overview**

**Project Timeline**

**Construction Schedule**

**Project Investment & Energy Savings**

**Next Steps**



# Guaranteed Energy Savings Act

The Guaranteed Energy Savings Act (GESA) is a way to decrease growing utility costs.

This is accomplished through a contracting process that enables mass building upgrades such as lighting, HVAC, water, etc. to be replaced through a budget neutral process.

These upgrades significantly reduce energy usage, which result in decreased utility spending.



# Guaranteed Energy Savings Act

## Why Pursue a GESA?

The School District's adopted sustainability plan, *GreenFutures*, includes implementation of an Energy Performance Pilot Project.

### Project Outcomes:

- Implement a Pilot Program to inform a larger project in future years
- Use the project savings to address outstanding repairs in schools
- Lower utility costs through installation of systems that use less energy
- Improve Indoor Environmental Quality and Building Appearance

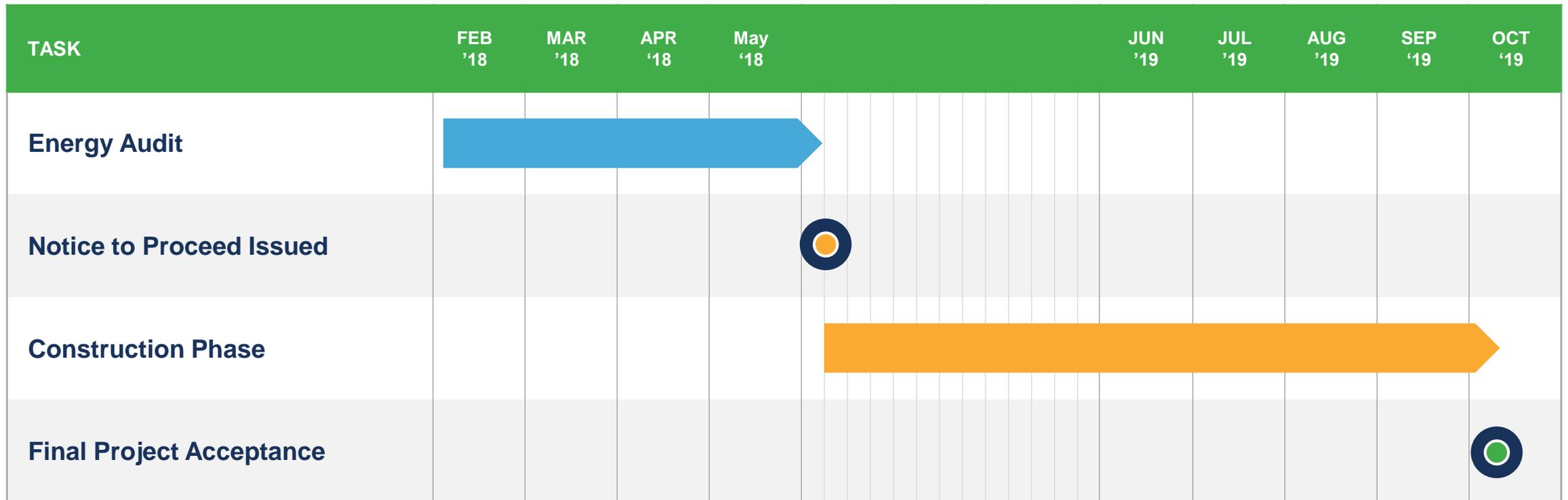


# Project Timeline

MAY 2016 – FEBRUARY 2018



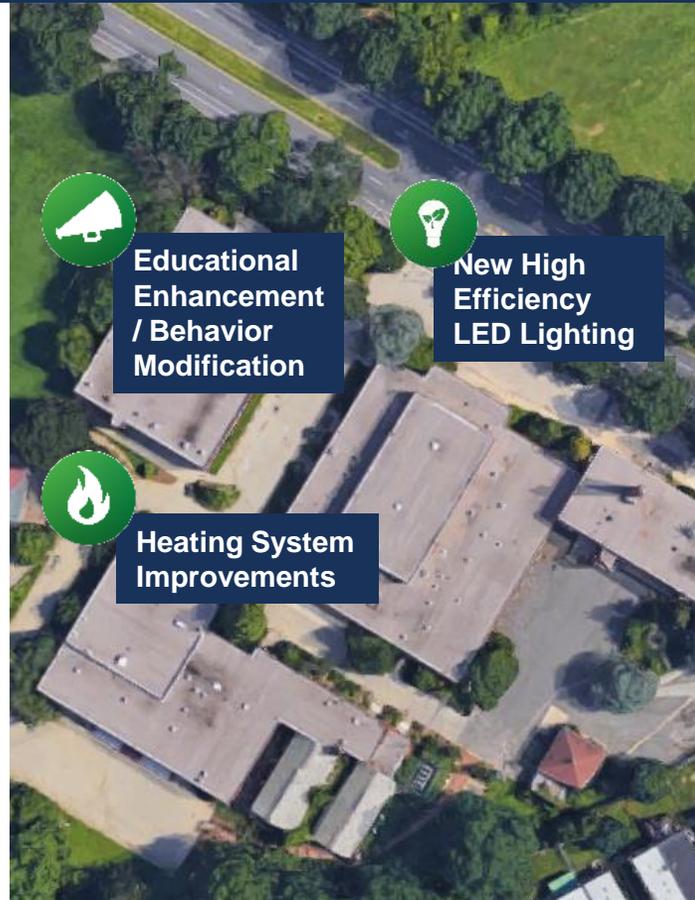
# Construction Schedule



# Sample Energy Conservation Measures



Northeast HS



Saul HS



Strawberry HS



# Project Investment & Energy Savings

Energy Conservation Measures	Saul High School	Strawberry Mansion High School	Northeast High School	Project Investment	Energy Savings (\$/year)
New High Efficiency LED Lighting	✓	✓	✓	\$5,455,615	\$109,534
Heating System Improvements	✓	✓	✓	\$5,339,590	\$288,520
New Insulation for Valves and Fittings	✓	✓		\$108,636	\$15,090
Decentralized Local Control Upgrades		✓	✓	\$1,246,449	\$34,214
HVAC Improvements			✓	\$4,671,128	\$13,923
New Windows			✓	\$6,251,347	\$6,493
Hazardous Materials	✓	✓	✓	\$319,388	
<b>Project Investment</b>				<b>\$23,392,153</b>	<b>\$467,774</b>

Project Investment: \$23,392,153  
 ECG Fee: \$935,686  
 Total Project Value: \$24,327,839

Annual Service Cos (3 Years): \$126,865  
**Total Contract Value \$24,454,704**



# Next Steps

- Upon completion of construction, the School District, ECG and Noresco will begin it's Measurement and Verification (M&V) phase.
- Measurement and Verification demonstrates how much energy the ECM has avoided using.
- The M&V process enables the energy savings delivered by the ECM to be isolated and fairly evaluated.

