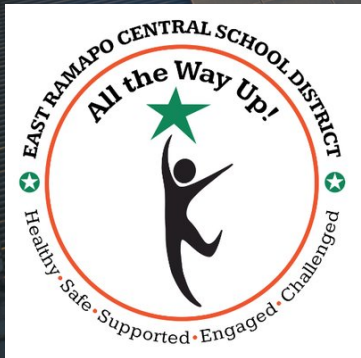


# Energy Performance Contract

## Update

### East Ramapo Central School District

December 2022



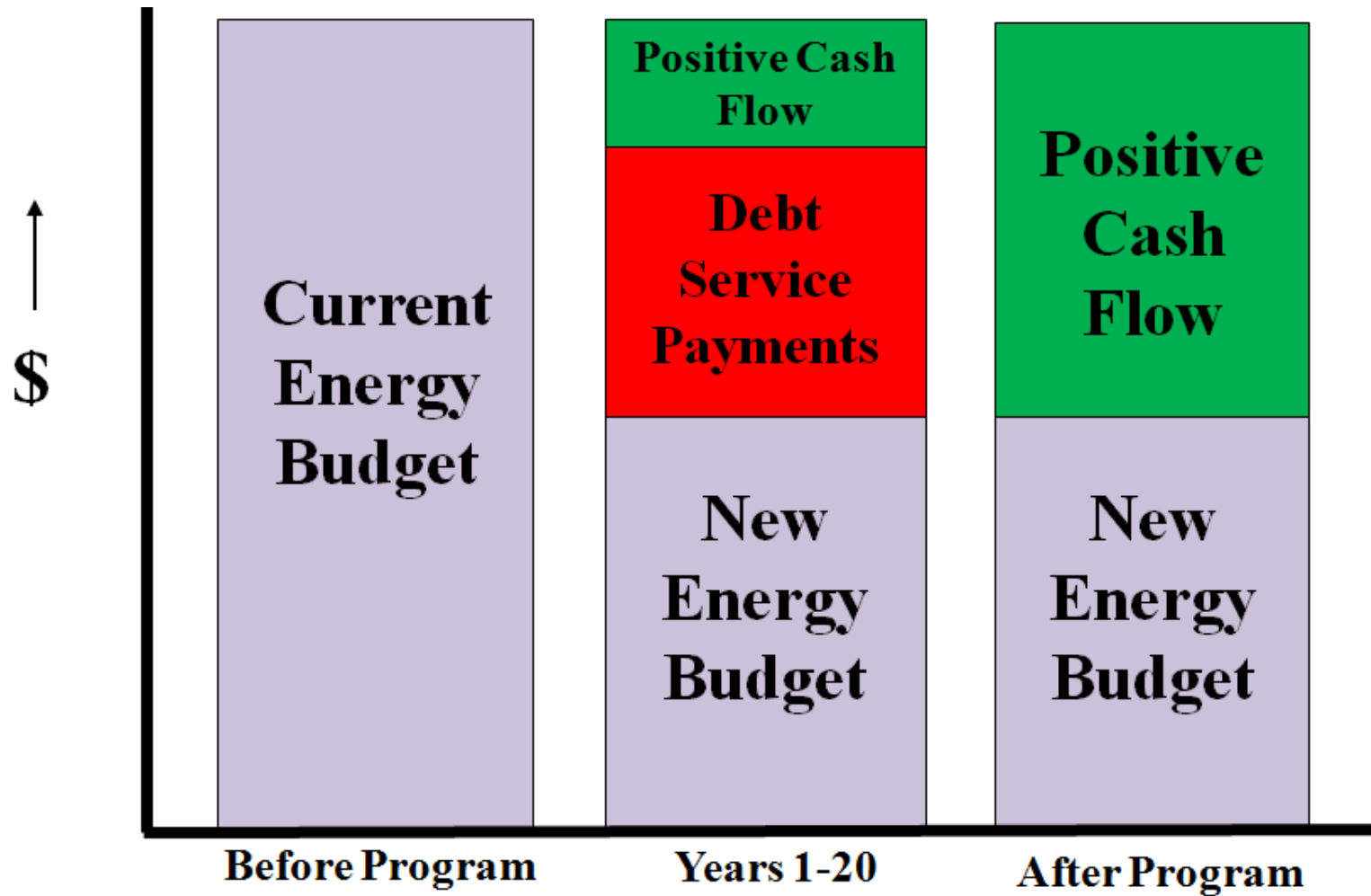


# An Innovative Solution – Energy Performance Contracting

- NYS Energy Law Article 9
- Budget-neutral Approach
- Taxpayer Relief
- Guaranteed Savings and Performance
- Fixed Price, No Change Orders
- No Low Bid Requirements
- Community Engagement



# An Innovative Solution – Energy Performance Contracting



# Activity to Date

## Winter/Spring 2022

- Energia issued a Request for Proposals (RFP) to garner site specific EPC proposals from Energy Services Companies – Ameresco selected to proceed with Comprehensive Energy Audit

## Summer 2022

- Received formal Board approval for Ameresco to proceed with Comprehensive Energy Audit and held formal CEA Kick-Off Meeting

## December 13<sup>th</sup>, 2022

- Ameresco and Energia to share update on Scope of EPC as Ameresco works to finalize their Comprehensive Energy Audit report



# East Ramapo Central School District

## District-Wide Energy Project

December 13, 2022



[ameresco.com](http://ameresco.com)



# Current Energy Savings Performance Contract Opportunity

- **Anticipated Cost - \$15 Million – Paid for by Energy Savings**

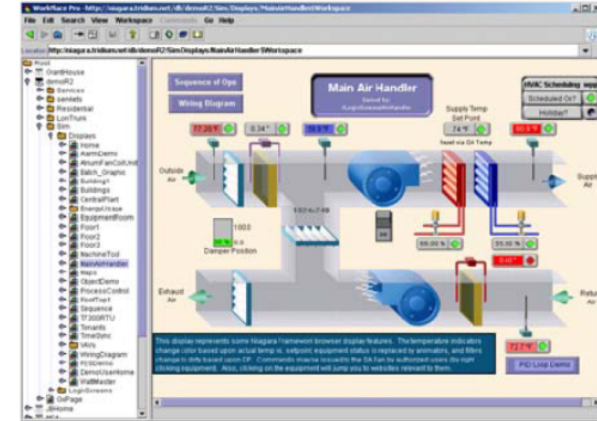
- 6 ECMs included (details on following slides)

- **Surplus Cash Flow over the 18-yr (Supplemental Project Savings & State Aid)**

- **Ameresco will assist in financing the project (TELP, Bond, Etc.)**

- **Coordination with CS Arch, Jacobs Construction, Harris-Beach and District personnel ongoing**

- **NO WORK WILL BE STARTED UNTIL NOTICE TO PROCEED HAS BEEN SIGNED BY THE DISTRICT**



# Lighting Improvements



Troffer Upgrade kits with integrated controls will provide additional controls for occupancy and daylighting.

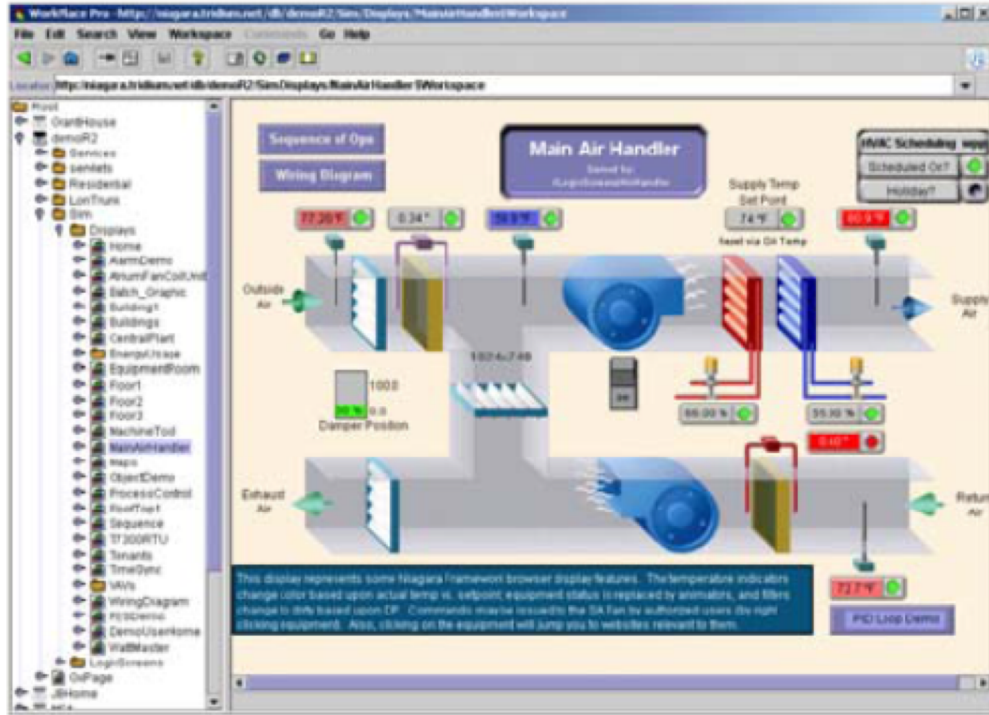


## Lighting Upgrade Highlights

- **10 of the 14 buildings will receive full LED upgrades. 4 other schools are already retrofitted to LED's**
- Upgrade all recessed troffers to LED troffer kits with integrated controls
- LED direct-wire tubes to replace fluorescent lamps
- Upgrade recessed down lights with LED retro kits
- New LED Highbay fixtures in gyms with integrated controls
- New LEDs in select parking lots and flood lighting for exterior lighting



# Energy Management Systems



## Highlights

Upgrade and integrate existing Metasys to Tridium N4.

- Install New Building Level Controller and Workstation in each school
- Metasys controllers will be reused if possible
- Expand and Improve Scheduling Capabilities. Expand Trending and Logging Capabilities.
- **District's staff will have access and complete control of programming and set points.**
- **Fully open protocol allows the district to choose any Tridium N4 vendor for service calls**

**Goal Alignment** – Improving utilization of technology, collecting facility info in real time and reducing energy usage

# Unit Ventilator Replacement

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## Highlights

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- Finalizing Scope for 7 schools for Unit Ventilators\*
- New Units will provide more efficient and even heating for classroom occupants
- Including modification for exterior louvers to ensure **fresh air** is brought into classroom spaces

Goal Alignment – Improving occupant comfort and indoor air quality by upgrading old inefficient systems therefore reducing energy usage

# Other ECMs



**Goal Alignment** – Improve utilization of technology, maximizing cash flow to the district and reducing energy usage

## Highlights

### VFDs for HW Pumps

- Replace (2) motors with new, premium efficient, inverter rated motors

### Vending Misers

- (2) Snack and (4) Drink vending machine controllers

### Infiltration Reduction

- Repair work done on previous energy project that has become damaged
- Additional buck frame, overhang, roof-wall and wall air sealing
- Additional door weatherstripping including overhead roll-up doors
- **This measure keeps the warm air ERCSD pays for in the building!**

# Timeline as of 12-13-2022

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## Phase I: CEA Development – 2/4 weeks

- Negotiation of Energy Services Agreement is ongoing.

## Phase II: Design & Engineering – 4 weeks

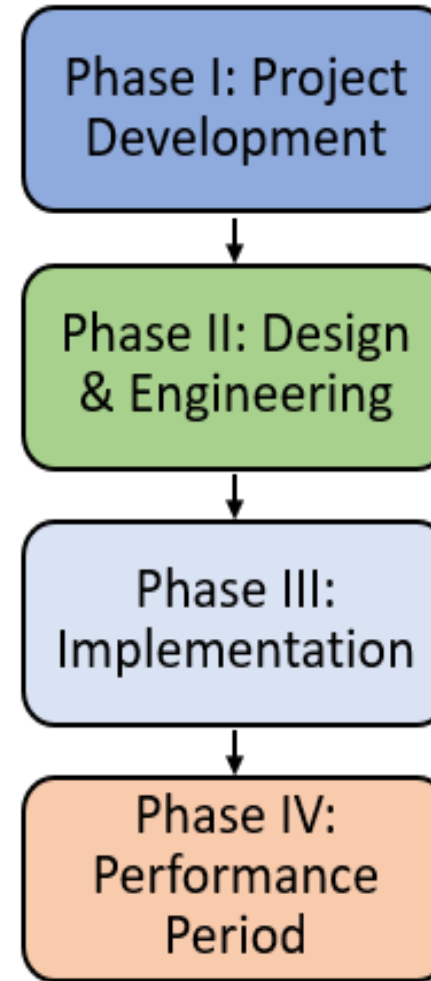
- Anticipated Delivery to SED Before 01/31/2023

## Phase III: Implementation – 12-18 Months

- Weekly Coordination Meetings

## Phase IV: Performance Period – 3 years of M&V included

- Project Term – 18 years
- In-house M&V Team will find additional ways to increase savings!



# Coordination with Ongoing Projects

- Coordinating with CS Arch, Jacobs, Energia & District Personnel
- Coordinating ARPA funding project with EPC Project to ensure maximum benefit, minimal disruption to District activities
- **Seeking Board of Education Approval for the final Comprehensive Energy Audit & Energy Services Agreement on January 3<sup>rd</sup> 2023**
  - **Secondary Meeting (if necessary) January 17, 2023**



Thank You



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