



# Plainville Public Schools

Heating/Cooling, Lighting and Weatherization

MULTI-YEAR IMPROVEMENT PLAN - PROGRESS REPORT

CAPITAL FUND REQUEST



# Plainville Public Schools

## Heating/Cooling, Lighting and Weatherization Multi-Year Improvement Plan

Presented to Board of Selectmen and Finance Committee  
in April 2019

## Fall 2019

The town of Plainville was awarded a \$250,000 Green Community Grant

- This grant paid for:
  - Replacement of one (1) boiler at the Wood School
  - Installation of LED lighting in the preschool/kindergarten wing at Jackson School
  - Weatherization improvements in the preschool/kindergarten and grade 2 wings of Jackson School
  - Installation of a new VRF heating/cooling “split” system in the preschool/kindergarten and grade 2 wings of Jackson School

## Fall 2019

In addition to the \$250,000 Green Community Grant additional credits (\$55,000) were provided by National Grid and additional funds (\$45,000) were provided by the town of Plainville

**TOTAL PROJECT COST**  
**\$350,000**

## Projects Completed

- LED Lighting - Jackson School:                    Installed December 2019
- New Boiler - Wood School:                            Installed January 2020
- Weatherization - Jackson School:                Completed March 2020
- VRF Split System - Jackson School:              Completed March 2021

## Special Town Meeting Request: Article 13

Tonight we are submitting two (2) requests for additional funding to continue improvements outlined in the multi-year plan:

|                 |          |
|-----------------|----------|
| FIRST Request:  | \$80,000 |
| SECOND Request: | \$50,000 |

These funds will be used for additional Lighting, Weatherization, and VRF upgrades which will result in increased energy reduction. The request for \$50,000 would be coupled with:

- \$30,000 from the SCHOOL DISTRICT and
- \$10,830 from UTILITY COMPANIES and
- \$95,190 from GREEN COMMUNITY FUNDS

# PROJECT DETAILS

- Project #1, LED LIGHTING
  - Replacement of 139 lighting fixtures
  - Estimated annual savings = \$4,560 (electricity & maintenance costs)
- Project #2, WEATHERIZATION
  - 920 feet of joint sealing and weather stripping of doors
  - Estimated annual savings = \$2,400 (electricity costs)
- Projects #3 & #4, VRF “SPLIT” SYSTEM
  - Installation of 5 heat pumps and 15 evaporators in addition to piping, refrigerant and power controls
  - Estimated annual savings = \$2,600 (electricity costs)

# Overall Impact of Projects Completed to Date

- ANNA WARE JACKSON SCHOOL

- Electricity, kWh:

FY2019 559,360 kWh

FY2020 449,040 kWh



110,321 fewer kWh

- Gas, therms:

FY2019 72,016 therms

FY2020 40,033 therms



31,983 fewer therms



# Additional Projects

- Roof Replacement - Jackson School Main Entrance
  - This section of roof was installed during the building renovation project which was completed in the spring of 2002. It has been patched on numerous occasions and is in need of replacement.
- Energy Management System Replacement
  - The energy management system was installed during the building renovation project, which was completed in the spring of 2002, and functions poorly. Installation of a new system would allow us to control heating and cooling at all times whether in person or remotely.