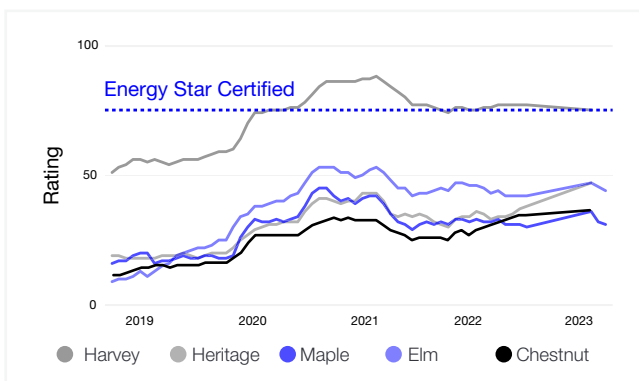


# Painesville City Local Schools

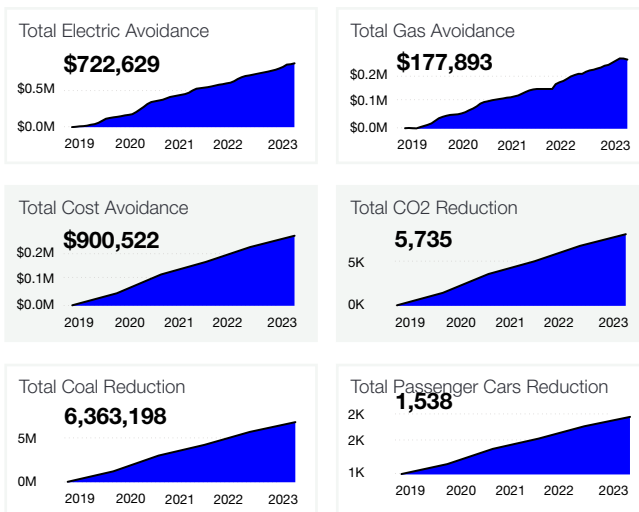
## Project Narrative

Painesville City Local Schools had two proprietary building automation systems throughout (5) buildings in the District, Johnson Controls and Trane. Painesville partnered with Gardiner to replace the Johnson Controls Metasys master controllers and Trane Building Control Unit master controllers with the Niagara Framework. The existing Johnson Control unitary controllers were integrated into the Niagara Framework utilizing an N2 software driver, while the Trane controllers were integrated utilizing the LON module and Comm4 software driver. Once completed, Gardiner created graphics and the site was networked into the District's Niagara WebSupervisor. With the field level integration in place, Gardiner worked the school's IT to create a secure connection to continuously pull data and utilize data analytics to post commission the installation and provide Applied Intelligence (AI) services.

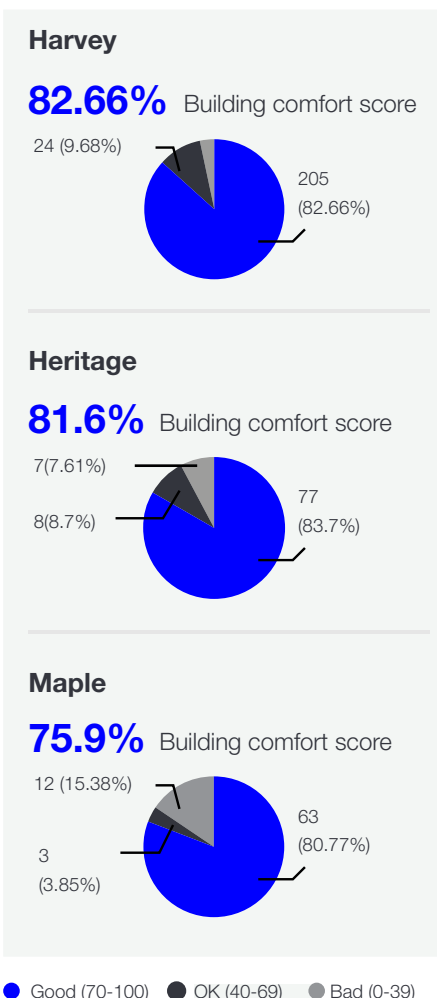
## Energy Analysis - Energy Star



## Cumulative Results



## Space Control Scorecard



## Results

Through the Applied Intelligence services, Painesville was able to achieve significant savings, saving around \$175,000 annually. Data was used help proactively identify potential issues. When issues were identified, Gardiner's team of engineers then analyzed the data to help determine corrective actions to improve both efficiency and comfort.

The Space Comfort Scorecard track space comfort in the facilities to ensure comfort throughout the buildings. Data from the rooms with poor scores on the Space comfort Scorecard is reviewed to try and determine any corrective actions to take to improve performance.