

# How Chariho evaluated an energy-saving IEQ strategy

A school district tested whether a novel environmental intervention could support classroom conditions while reducing reliance on energy-intensive ventilation.



VENTILATION ALONE



LOCALIZED AIR CLEANING



Classroom conditions and energy assumptions measured and analyzed against operational baseline.

## KEY FINDINGS



Up to **34%**

reduction of sub 0.5  $\mu\text{m}$  particle in 5 minutes



Up to **5x**

more effective than ventilation alone for particle removal



Up to **57%**

modeled classroom heating energy reduction



### Why it mattered

The district needed evidence that indoor environmental quality and energy goals could be addressed together, without adding classroom disruption.



### What this made possible

A more evidence-based path for evaluating ventilation, air cleaning and energy tradeoffs in occupied classrooms



**“Metalmark’s systems make a real difference in classrooms by providing cleaner, healthier air and creating an environment supporting better learning”**

Chariho School Superintendent, Gina Picard



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