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School IAQ Program Update

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Efficiency Vermont

- Statewide infrastructure
- Network of partners
- Market transformation

Results

- Over **\$2.6 billion** in energy cost savings
- Over **12 million** metric tons of CO₂e
- Robust efficiency workforce

Program timeline

June-July '20

VT Leg passed School Indoor Air Quality Program with an initial \$6.5m funding allocation.

Governor Scott enacted the Program on July 1.

July-Aug. '20

Efficiency Vermont launched the program and began accepting school intakes on July 8.

By September 15, over 300 schools were enrolled in the program.

Sept.-Nov. '20

The Legislature allocated an additional \$11.5m to the Program in two separate acts.

Dec. '20-March '21

\$16.3m was allocated to schools by the end of the year.

Discussion of additional \$15M for the program for 2021.

Program components

1

Simple process

Efficiency Vermont designed a three-step process for intake, scoping, and reimbursement.

2

Clear technical guidance

Efficiency Vermont worked with school administrators, facility managers, and health and HVAC experts to distill the CDC & ASHRAE indoor air quality specifications into digestible guidance for schools and their contracted partners.

3

Ongoing support

In addition to the original guidance, Efficiency Vermont hosted regular webinars for school administrators and facilities managers. Also provided 1:1 support for all eligible schools and their contractors throughout the program.

Sample project overview



Assessment

The school hired an HVAC professional to assess condition of the existing HVAC system and complete air flow testing throughout the building. This assessment identified opportunities for improvement.



Scope of work

Using the assessment, an HVAC contractor, facilities manager, and Efficiency Vermont engineer developed a scope of work that delivered the most impact within the constraints of time and resource availability. This included upgrading existing equipment, improving building controls, creating an isolation space, and installing new filters throughout the system.



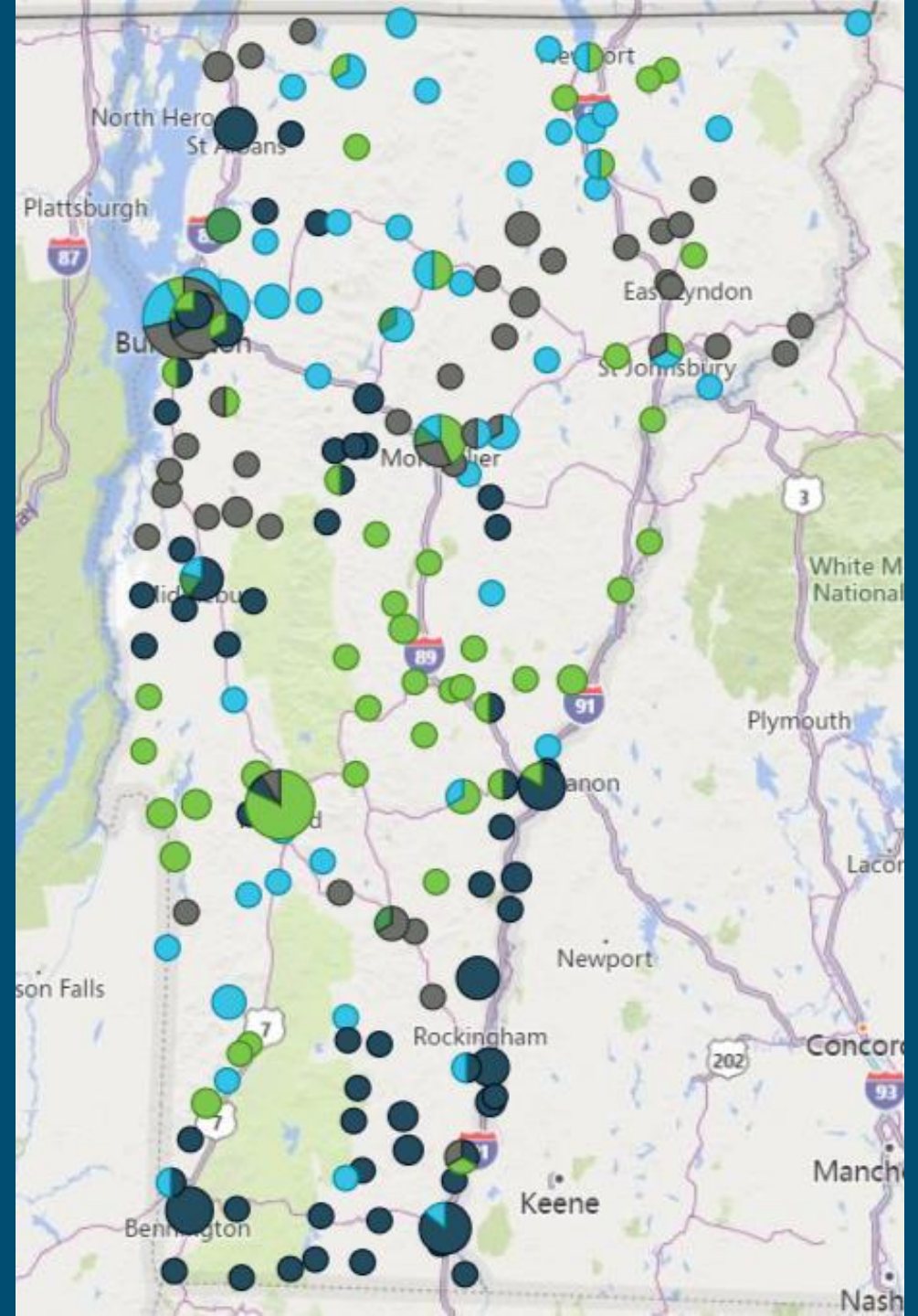
Project Completion

The school hired multiple specialized HVAC and controls contractors and tradespeople to implement the approved scope of work in phases as equipment was delivered and contractors were available. Verifying completion of approved scope, school submitted invoices to Efficiency Vermont for reimbursement.

School Indoor Air Quality Projects

Geographic distribution

Efficiency
Vermont



Impact by the numbers

365 schools

90% of eligible schools in the state participated.

Over 62,000

K-12 students that will now attend schools with improved HVAC systems.

Over 6,500

K-12 teachers that will now teach at schools with improved HVAC systems.

Nearly 13m ft²

Space in VT schools with improved ventilation and/or filtration.

40 schools

Buildings that previously had no ventilation systems that can now bring fresh outside air into the building for the first time.

140 companies

Contracted engineers and tradespeople who worked on projects at the 365 schools, which together employ hundreds of Vermonters.

“ The support we received from grants and from Efficiency Vermont was **extremely beneficial in both the short and long term....**the process was **collaborative and productive.** We were able to improve indoor air quality in several school buildings through various upgrades and improvements and, **if additional funds are made available, would be able to make additional HVAC improvements.**

Andrew Lundeen

Director of Finance and Operations, Lamoille South Supervisory Union



This is by far the easiest grant program we've ever participated in. The process was streamlined so we were able to get our vendors into our buildings and doing the work quickly. **The biggest benefit is peace of mind for teachers and families.** I can now show that rooms they or their children are in have proper ventilation and filtration. **We still have six buildings that need more than we could tackle in last year's program.** Ensuring proper ventilation in every room is the priority.

Bruce MacIntire

Director of Facilities, Addison Central Supervisory Union



Efficiency Vermont walked us through a somewhat complex process in a very uncomplex manner...Our district received financial support for tangible assets that will benefit our **communities into the future**. Along with those tangible assets, we received knowledge about doing ongoing maintenance to maintain the investments. **Long story short: Efficiency Vermont deployed a plan...to benefit our students and communities for years to come.**

Bill Anton

Superintendent, Windham Central Supervisory Union

“ Because of the ventilation funding Kingdom East School District was able to either update or install new ventilation systems in 4 out of 7 of our schools to assure the facilities were safe to use. These projects were fast tracked but with the help of the staff at Efficiency VT we were able to complete all 4 projects on time and within budget. **Without this funding and the excellent support of Efficiency VT we would not be having in person learning in some of our schools.**

Marc Brown

Facilities Manager, Kingdom East School District

Questions?

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