



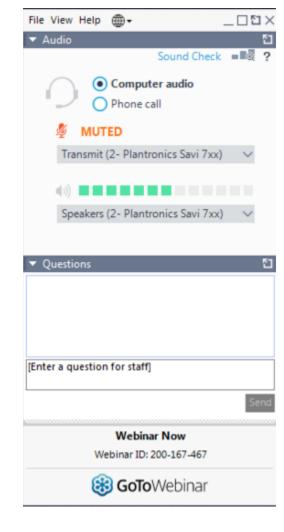
Audio Settings:

Make sure your output selection is your computer speakers.





To Ask a Question



TEMPERATURE CHECK

Utility Incentives for Healthier Buildings

1. Introduction

3. GRE Healthy Buildings Program 2. Outside Air Systems & Demand-Control Ventilation

4. Efficiency Vermont Controls Program

5. Audience Q & A

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Jill Eide

Member Commercial Industria & Agricultural Strategist



Marcus Jones

Energy Consultant

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CDC: How COVID-19 Spreads

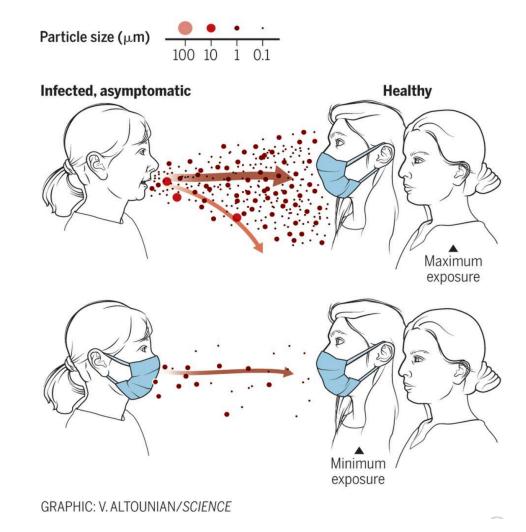
The virus is thought to spread mainly from person to person.

- Between people who are in close contact with one another (within about 6 feet).
- Through respiratory droplets produced when an infected person coughs, sneezes, or talks.
- These droplets can land in the mouths or noses of people who are nearby or possibly be inhaled into the lungs.

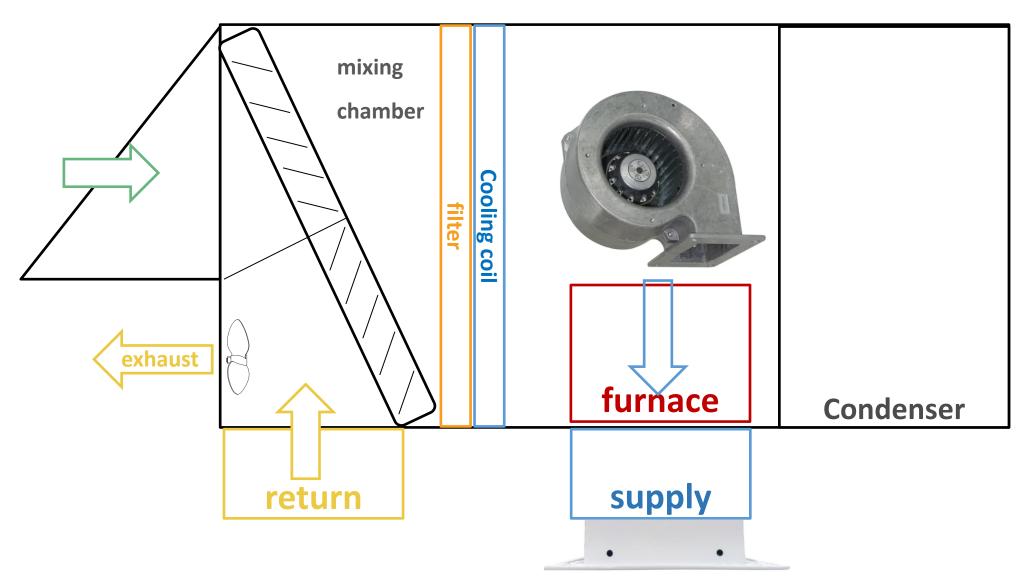
The virus may be spread in other ways.

 Touching a surface or object that has the virus on it and then touching their own mouth, nose, or possibly their eyes. This is not thought to be the main way the virus spreads.

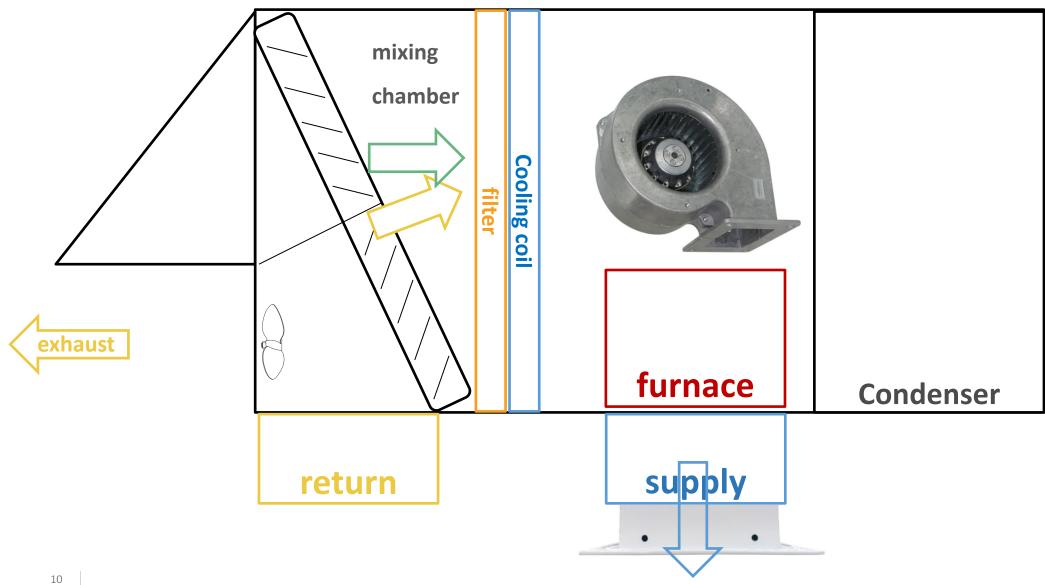
Source: CDC



How Outside Air Fractions are Managed



How Outside Air Fractions are Managed





ASHRAE: Reopening Guidance and Building Readiness

ASHRAE has issued guidance for commercial buildings.

ASHRAE > COVID-19 > Buildings > Commercial

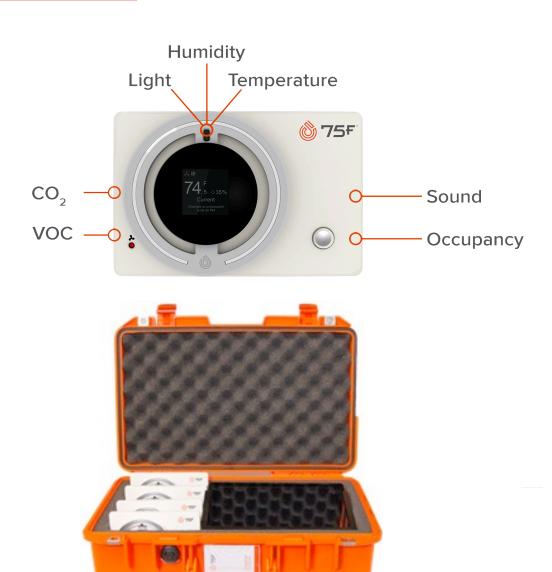
- Flush the air in a building for two full hours before and after occupancy.
- Open Outside Air (OA) to the maximum possible while maintaining acceptable indoor conditions.
- Disable Demand Control Ventilation.
- Divert outside air to occupied spaces.
- Maintain relative humidity levels between 40 and 60%.



75F Smart Stat



75F IAQ and Wellness Rapid-Results Test Kit



Streaming IAQ data in 15 minutes





75F Epidemic Mode™

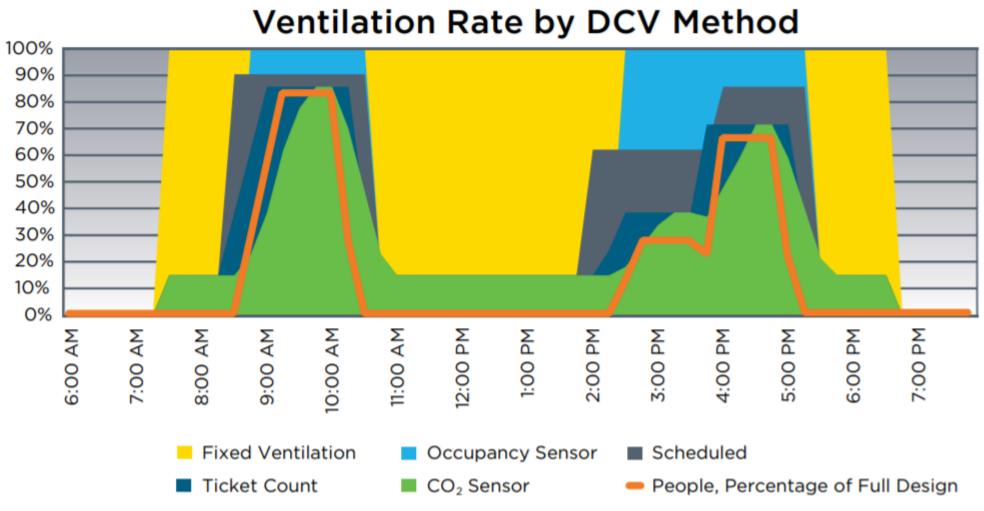
- Smart Purge[™] automatically flushes the air in the building prior to occupancy.
- Maximize outside air intake based on equipment and weather.
- Sequences are automatically updated as CDC and ASRAE guidelines change, or to meet state or federal regulations.







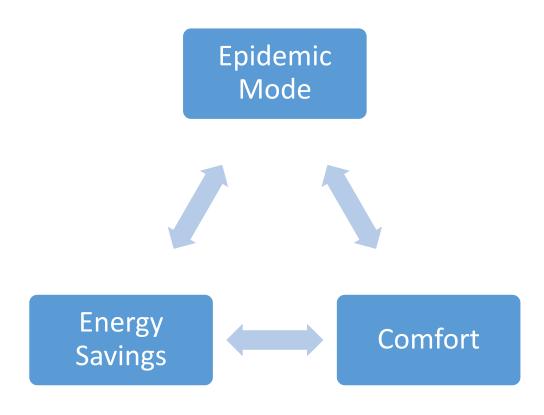
Demand Control Ventilation (DCV)





Protect your employees and customers today while saving energy

Save the planet with 30-50% energy savings





Q&A

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Healthy Buildings Program

Jill Eide

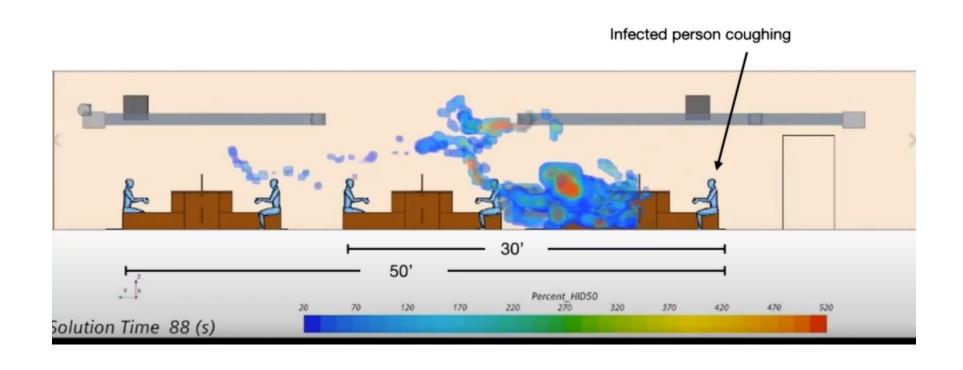
Commercial, Industrial, & Agricultural Strategist

GRE and our Membership

- ▶ 28 member-owner cooperatives
 - **700,000** members
 - \$3.9 billion total assets
 - \$1 billion revenue
- ▶ Competitive rates, stable forecast
- ▶ 4,820 miles of transmission lines
- ▶ 3,000+ MW generation
 - 10 power plants
 - 700 MW renewables (wind, solar, hydro)



Aerosol Simulation



Healthy Buildings

- Indoor Air Quality Assessment Incentives
 - Private business facilities:

• Tier 1: under 50kW peak, \$500 up to 100% of cost

• Tier 2: 50-150kW peak, \$1,000 up to 100% of cost

• Tier 3: over 150kW peak, \$1,500 up to 75% of cost

- State and local government:
 - Excludes federal facilities 100% of cost up to \$1,500

Healthy Buildings – NEW Program

- Building Controls
 - Demand control ventilation NEW
 - Supply fan VSD
 - Advanced rooftop control NEW



- UVGI Light NEW
 - Ultraviolet germicidal irradiation
- Custom
 - Biopolar Ionization





Contact Information

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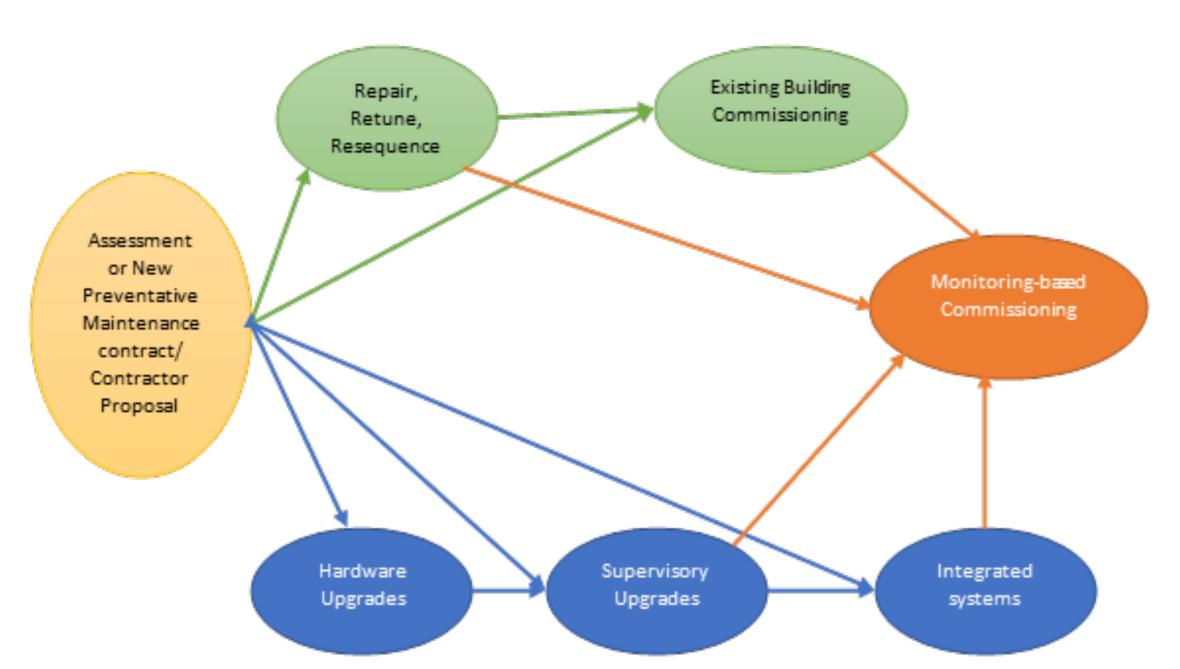
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Efficiency Vermont Controls and IAQ

Marcus Jones
Senior Energy Consultant





Real world savings

- 4-year-old system
- No reset logic
- Improper scheduling

Saved

- 50% reduction in electrical
- 58% reduction in propane



K-12, Colleges and Universities COVID-19 response.

Goals:

Reduce energy costs

Program Pandemic Mode

Support contractors

Building assessment

Develop pipeline of projects

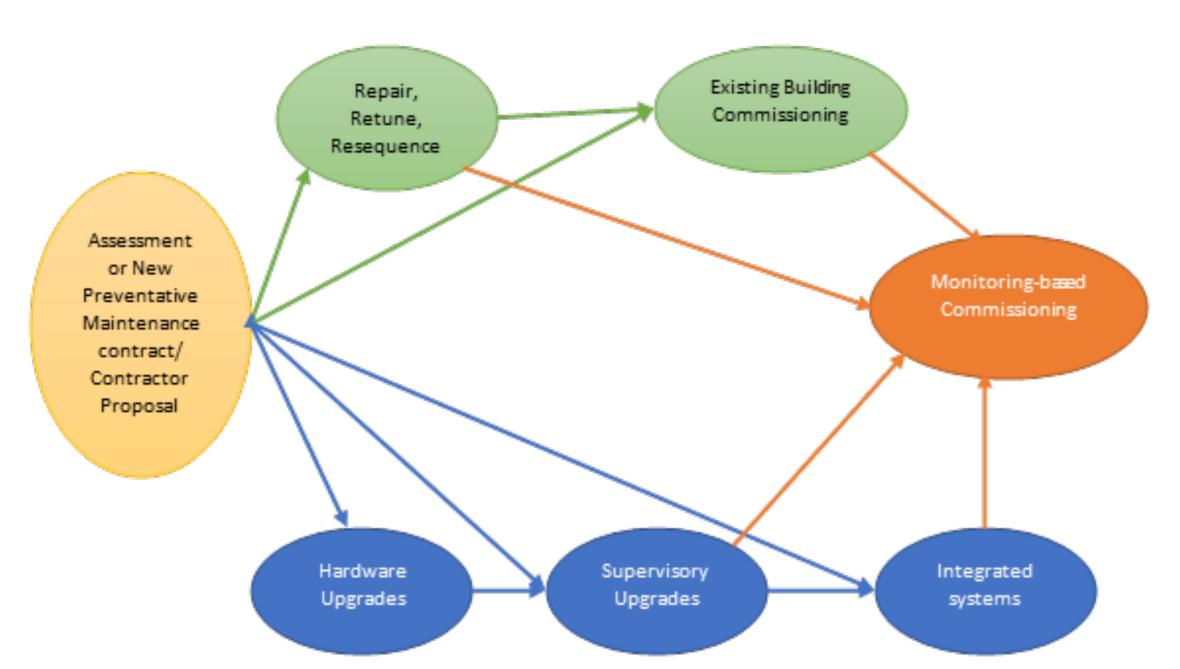
Efficiency

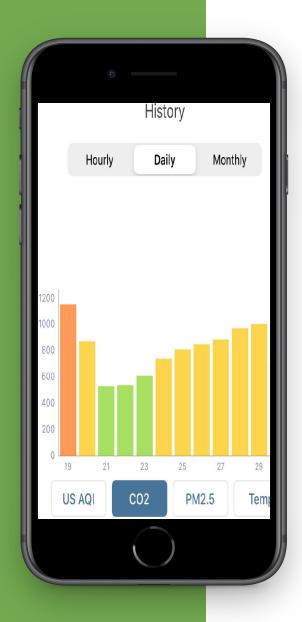
Phase 1: building shutdown

- Remote system analysis
- Customer training

Phase 2: optimized reopening

- Preventive maintenance
- Efficient IAQ sequencing
- Final report





Integrated IAQ sensors just make sense

- IAQ is top of mind for many
 - At home
 - At work
- You can't control what you don't measure

Small Primary School

- Replacing Nest thermostats
- Installing 75F Smart Stats
- Integrating 3 systems
 - Oil boiler
 - Oil furnace
 - New energy recovery unit

Pilot

Thermostats with integrated IAQ sensors



Questions?

Marcus Jones

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Q&A