



# Local Government Technical Assistance Program (LGTAP)

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# Issue: What could advance Indoor air quality and improve school building energy efficiency (and save money)

- Filtration
- Building Automation System and Controls
- Ventilation Rates
- Mechanical Insulation
- High Efficiency Motors / Variable Frequency Drives (VFD)
- Water Conservation including faucets and flush valves
- Building Envelope; caulking, foam, insulation, weather stripping
- Boilers, Chillers and Roof Top Units (RTU)
- Solar PV Systems; roof top, ground mount

# Minnesota Department of Commerce

- Pilot Air Ventilation Program

Authorized by MN Legislature

\$1,000,000 in funds

\$50,000 per school maximum

Minimum requirements to achieve targets for:

HVAC Assessment

Ventilation, Filtration, and CO2 monitoring

# Motivations for Improving Air Quality in Schools Facility

- Charter School – bought old building and software controls are outdated. Boilers date to 1939 and air ventilation issues.
- Large independent school district
  - Make-up units and air handling units need to be replaced at \$50,000 to \$100,000 each
- Smaller independent school district –heat pumps do not work and electrical consumption “very inefficient.”
- Small independent school district: Roof top units are 33 years old. Still charging with R22 coolant

# Thank You!

**Mike Lynn, PE**

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