ASSESSING AND IMPROVING INDOOR AIR QUALITY IN SCHOOLS

BOSTON Public Schools

As part of a consortium led by our partner SGS, Ecomesure is providing thousands of air quality sensors in classrooms in Boston, U.S.A.

The data from these sensors are uploaded in real time to a web platform and are accessible to the public 24/7.

This consortium addresses the needs expressed by Boston Public Schools (BPS), the largest school district in the state of Massachusetts. Committed to providing healthy school environments, BPS has adopted indoor air quality and ventilation standards that comply with federal, state, and local guidelines.

In doing so, BPS protects the health of its students and teachers while improving their well-being.

EcomZen 2

i-comesure.com secure server

Online platform for viewing and processing data

ADVANTAGES

- Measurement of multiple parameters
- Quality installation
- Real-time alerts and alarms
- Comprehensive and intuitive platform

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Why install indoor air quality sensors in schools?

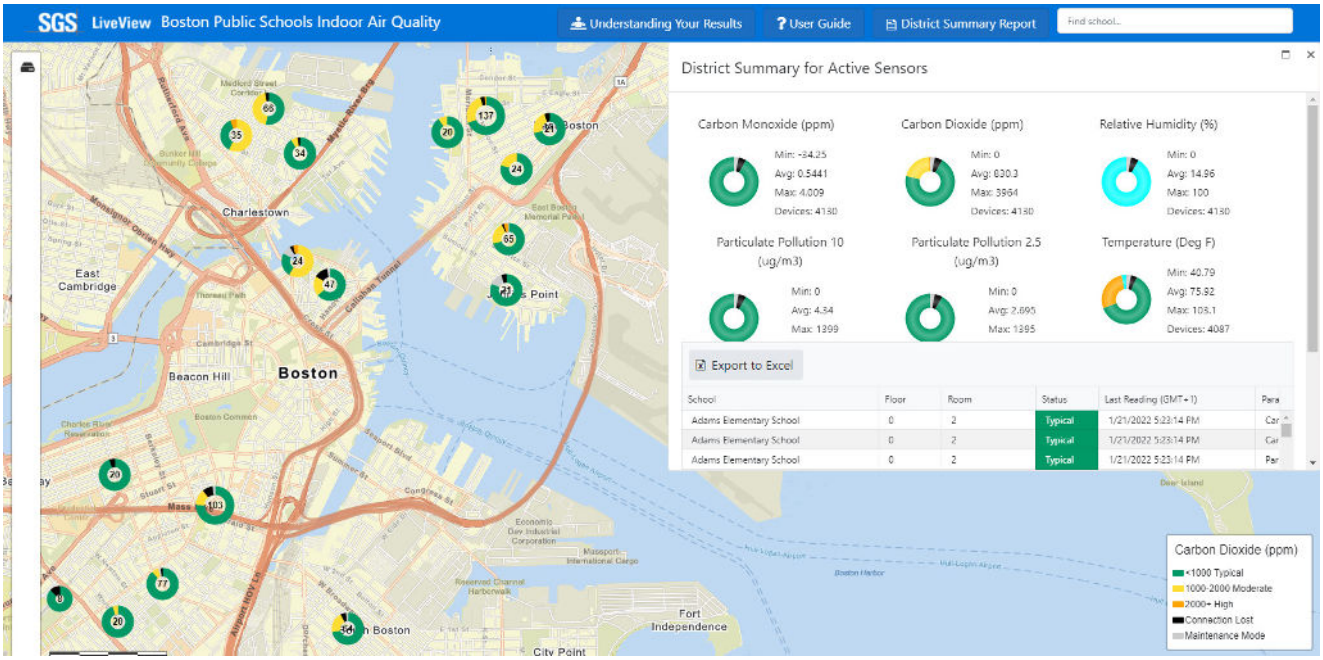
- Monitor, collect, measure and assess indoor air quality data so as to take appropriate action when necessary. Classroom carbon dioxide levels are used as an indicator of air exchange rates to alert when natural or mechanical ventilation is required.
- Provide information on the state of indoor air quality, raise awareness about its health impacts and share best practices for improving it.
- Build trust in educational institutions by creating healthy learning environments.

Implementation of the solution

Each classroom sensor measures the following parameters:

- Carbon dioxide (CO_2)
- Carbon monoxide (CO)
- Total suspended particulate matter (PM_{10})
- Respirable suspended particulate matter ($PM_{2.5}$)
- Temperature (T)
- Relative Humidity (RH%)

The collected data are public and directly viewable on the SGS Live View platform:



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