

A Building Clouds Solution

Maximize Indoor Air Quality While Minimizing Energy Usage

Controlling CO₂ Levels in Classrooms an Affordable, Wireless Solution to a Difficult Problem

Researchers at Lawrence Berkeley National Laboratory have determined that moderate to high levels of indoor Carbon Dioxide can impair people's abilities to make decisions. Levels as low as 1,000 to 2,500 ppm can impede the decision making process. Levels in a typical classroom frequently exceed 3,000 ppm of CO₂.

You can read the <u>LBNL study here:</u> <u>http://newscenter.lbl.gov/2012/10/17/elevated-indoor-</u> carbon-dioxide-impairs-decision-making-performance/).



By simultaneously monitoring CO₂ levels, indoor and outdoor temperatures, and economizer damper position the EMS is able to minimize energy usage while providing for maximum indoor air quality and a safe learning environment for students.

System Components

- Opendiem EMS Software by Building Clouds
- Control Systems Integration by Energy ETC
- System Hosting & Help Desk by Energy ETC
- Wireless Enabled Hardware, Sensors by Powercast
- LonWorks Controllers by Building Clouds



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