⊕EPA



Overcoming Obstacles: Funding Your IAQ Management Program



Indoor Air Quality (IAQ)

Session Objectives

- Learn how a team-based approach to IAQ management can help to increase sustainable funding streams.
- Learn methods to integrate an IAQ management program into your existing facilities and/or energy management programs at low- to no-cost.
- Discover avenues to access funding through state and local grants, performance contracting, bond issues, etc.
- Discover how to effectively leverage data and research to secure buy-in and funding for an IAQ management program.



Indoor Air Quality (IAQ)

Session Speakers

Moderator

- Dave Hill, Blue Valley School District (Kan.)

Speakers

- Frank Di Nella, Keller Independent School District (Texas)
- Rusty Clifford, West Carrollton School District (Ohio)
- Dana Green, West Carrollton School District (Ohio)



Thinking about Funding

Beyond the establishment of your program, funding (\$\$\$) becomes important to consider to:

- · Institutionalize your program.
- Take on certain, big-ticket projects.

BUT...

 We need to remember that we can accomplish a lot without additional "IAQ funding".



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Three Tips for Funding an IAQ Management Program

- · Communicate with the Key Players
- · Highlight return on investment
- Link IAQ and Energy Efficiency and Conservation



Indoor Air Quality (IAQ

Communicate with Key Players

Who is on your district's IAQ team?

IAQ Tools for Schools award-winning districts and Faculty always have the following key stakeholders at their meetings:

- · District CFO or Finance Director
- · Facility Manager
- Superintendent

School Committee Members



Highlight Return on Investment

Demonstrating return on investment will help you win buy-in from decision makers.

- Which data points matter to each stakeholder?
- Return on your investment is not just in dollars.
 - Decreased absenteeism and better classroom performance means healthier and happier students and staff.



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Link IAQ and Energy Efficiency and Conservation

- · More funding is available for energy efficiency.
 - Federal and state rebate programs are available for upgrades and retrofits.
- Piggybacking on energy (and water) efficiency and conservation programs is one of the best ways to help finance your IAQ management program.
- Use energy or water efficiency savings to offset costs/fund an IAQ management program.



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Where is the Money?

It is in...

The capital budget process.

- Maintenance and custodial budgets are often determined here.
 - Essential custodial staffing and material needs are funded through this source.
 - Incorporating an IAQ program into this process can be challenging due to competing priorities and taxpayer resistance.



Where is the Money?

It is in...

Rebates and subsidized loans.

- · Available from:
 - State and local governments.
 - · Utility companies.
- · Available for:
 - · Energy efficiency upgrades.
 - HVAC and weatherization upgrades.

Programs often provide 0% interest or very low interest loans.



http://www.dsireusa.org

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Where is the Money?

It is in...

A tax-exempt lease.

- Quick and streamlined way to acquire money for "hard assets" or tangible property, including an HVAC system.
 - Can be organized and completed within a few weeks.
 - Not counted as debt on the schools books because the school does not own the IAQ upgrade.

http://www.energystar.gov/ia/business/government/FINAL_Paper.pdf

(see page 4)



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| Where is the Money? |
|--|
| It is in |
| Performance contracting. |
| A common method of project financing that comes with guarantees and a schedule of projected savings. |
| A vehicle for reducing energy costs without upfront payments. |
| An ESCO performs energy audit first and guarantees savings. |
| http://www.energy.ca.gov/reports/efficiency_handbooks/400-00-001D.PDF |

Where is the Money?

It is in...

Bond Issuance.

- · Pairs an IAQ initiative with a larger project.
- Reduces the chances of fallout from weary taxpayers.
- Options include QSCB, QECB and QZAB.
 - All have direct subsidies federal government refunds the cost of interest back to the district.

http://www.qzab.



http://www1.eere.energy.gov/win/ndfs/gech_creh_nrimer.nd

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Where is the Money?

It is in...

Grants.

- Pulls at the heart-strings of foundations because of the impact poor IAQ in learning environments can have on children's overall health and scholarly performance.
- Identify foundations in your area that have a history of giving money for environmental and public health causes.



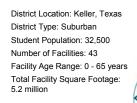
Indoor Air Quality (IAQ)

Where is the Money?

It is in...

Gifts.

- Parents associations or other groups sometimes set up donation funds for specific causes, including IAQ.
- Be sure to frame the effort carefully so as not to produce backlash from the community who think that an IAQ project should be paid for through taxpayer's dollars.



IAQ Tools for Schools National Awards:

Great Start: 2008 Leadership: 2009 Excellence: 2009

Model of Sustained Excellence:

2010

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Getting Started



2005 M&O Brought "in-house"

Cost Reduction & Quality Improvement

2006 Switch to Green Seal Certified Products

Vendor Proposal = Cost Reduction

2007 Implement Paper Recycling

Vendor Proposal = Cost Reduction

2007 Focus on Educational Excellence

Paradigm Shift in Business Function

2007 Locate EPA Tools for Schools Site

2007 Plan Tools for Schools Implementation

Communicate Benefits to all Departments

2008 Board Presentation

Buy In

dia.



Indoor Air Quality (IAQ)

Invested Saving in EPA's Tools for Schools Program Test Equipment and Training Implemented Single Stream Recycling Further reduced waste cost Communicated to and Educated Department Heads Expand buy-in via IAQ Team Transition to Microfiber Cleaning – Reduced W/Comp Tools for Schools Great Start and Leadership Awards Publicize, Publicize, Publicize 2008 Bond Election Identified Building Needs

Roofing Projects, Flooring Replacement, HVAC Controls



Funding Sources



Bonds

Capital Projects Roofing

Flooring





Rebates, From Utility Companies for Reduced Peak Demand Use Rebates from New Construction to Upgrade Existing Facilities 1 New School Provides Funds to Update Lighting in 2 1/2 Facilities

State of Texas Grant to Reduce Emission on School Busses Department Budgets

Board Goals Influence Department Spending



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Building Momentum



A Singular, Purpose Focused Message

IAQ Contributes to Educational Excellence for all KISD KIDS Educational Excellence is the Reason KISD Exists

Trustees, Administrators, Educators, Parents, Tax Payers and Reporters "Get That"

IAQ Team Promoted and Educated Internally With EPA Publications and Success Sharing

The IAQ Coordinator Sits on the School Health Advisory Council (SHAC) consisting of Parents, Local Health Providers and KISD Administrators.

KISD has Partnered with Cook Children's Medical Center and the American Lung Association to Develop and Conduct Asthma Management Training for Students, Parents and KISD Staff



The Culture Changes 🌠



Cross Functional IAQ Team's Impact

All Department Heads Exposed to IAQ Program Benefits Core of the Business, Educational Excellence

Business Functions Focused on Educational Excellence

Functions Becomes Part of the Educational System

Board Includes Green Initiatives in 5 Year Strategic Plan

Buy-in at The Highest Level

IAQ becomes Over-arching Umbrella for all "Green Initiatives"

Test Scores Increase Annually

Widespread Improvement Across the District Publicize, Publicize, Publicize

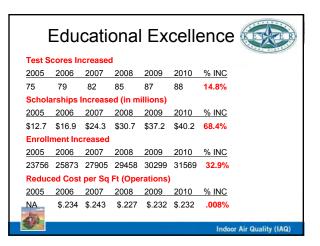


Spending Patterns Change

Departments Seek Cost Effective "Green Solutions"









West Carrollton School District District Location: West Carrollton, Ohio District Type: Suburban, near Dayton Student Population: 3,750 Number of Facilities: 7 Facility Age Range: 42 – 97 years Total Facility Square Footage: 614,901 IAQ TfS Excellence Award: 2003 IAQ TfS National Mentorship Award: 2006 IAQ Management Plan Funding **Preventative Maintenance Capital Improvement Levy Using Projected Energy Savings** (Ohio HB 264) Indoor Air Quality (IAQ) **Preventive Maintenance** Set Schedule Keep Schedule Periodic building walkthroughs Takes less time & expense to maintain than to repair.





Capital Improvement Levy Passed initially in 1996 Passed permanently in 2006 Generates 2.5 mills = \$900,000 annually Must be used for items that have life of 5 years or more Used to address a myriad of IAQ issues



Using Projected Energy Savings

Ohio allows school districts to borrow for energy conservation projects that have a payback of 15 years or less.

Must be able to demonstrate energy savings are less than cost of project.

I.E., HVAC, windows, boilers, etc. meet both energy and IAQ needs.



Indoor Air Quality (IAQ)

HVAC & boiler replacements financed by lighting retrofits and energy control modification programs.

Energy savings pays for loan if spread over a 10 to 15 year period.

IAQ items included in project and still reduce annual expenditures.

Getting & Maintaining Buy-in

Survey Occupants & Keep Ear to the Ground

WCSD uses staff surveys to collect information on the health of the facility and assess staff satisfaction annually.

Walk the Talk - Walk the Grounds

EH&S team (maint. staff, prin., health dept., CO admin.) conduct walkthroughs annually to identify sources or potential contributors to IAQ problem.

Keep the Customers Satisfied

WCSD takes concerns seriously – builds confidence in program - treats occupants as partners in IAQ monitoring.



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Getting Positive Results

Use Technology to Make it Easier

WCSD uses a Q-Trak to simplify assessments & accommodates establishing facility performance baselines.

Air quality measurements of CO, CO₂, temperature and relative humidity are taken in classrooms, monthly or as needed.





Getting Positive Results

Establishing Your Baseline

Monitor progress with monthly assessments.

Track severity and length of time to solve problems over time to identify room for improvement.

Prevention Today Means Savings Tomorrow

Preventative maintenance and assessments throughout year will reduce risk of problems and save time and money.



Points of Contact

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Resources Recap

Rebates

http://www.dsireusa.org

Tax exempt leases

http://www.energystar.gov/ia/business/government/FINAL_Paper.pd

Performance contracts

http://www.energy.ca.gov/reports/efficiency_handbooks/400-00

Bonds

http://www.qzab.org/

http://www1.eere.energy.gov/wip/pdfs/qecb_creb_primer.pdf

