Do Good in the Hood

4th Annual Fume Hood Competition
Fume hoods use 115kWh/day, which is enough to power a typical household 3.5 times.

VAV hoods reduce energy consumption. How?

VAV= Variable air volume
• Air volume in hood changes based on sash position, using less energy

CAV= Constant air volume
• Air volume stays the same no matter if sash is open or closed, using more energy than needed

This competition incentivizes lab users to close their sashes when not in use to lessen air flow and energy.

Results and Savings

Savings
• $2,411 in savings from Byers Hall
• $3,048 in savings from CVRB
• $5,459 in total savings

Culture Shift/ Best Practices
• Byers Hall shows significant improvement from year to year, as seen in the baseline change
• CVRB has a large number of changing variables due to inconsistent fume hood users

Lessons Learned

Overall, the campaign was successful and has shown an increase in users closing their VAV fume hoods when not in use.

Successful Strategies:
1. Skyspark- live metering of CFM and kWh
2. In person sign-ups
3. Weekly metric updates posted in labs

Recommendations for Improvement / Program Expansion:
1. More accurate baseline- strategy consistent from year to year
2. Displayed info on VAV hoods

Linda Fu and Kailyn Klotz
Energy and Communication Outreach Fellow, UC Merced graduate
BS in Biological Science with an emphasis in Microbiology and Immunology..................Linda
Communications and Outreach Fellow, Western Washington University graduate
BA in Business and Sustainability with an emphasis in Green Marketing....................Kailyn

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