

# Air Abatement - Necessary Evil - OR - Cost Reduction Opportunity

Most industrial businesses create emissions and many have air pollution control equipment as a means of meeting permit requirements. To most, these systems are a “necessary evil” – something that the business must spend money on even if the equipment does not increase productivity or grow revenue. There is a different and far more positive way of viewing these systems. Beyond the obvious downside of paying fines when not meeting permit requirements, and making the news for all the wrong reasons (such as emitting toxins into the surrounding community), system upgrades can in many cases quickly pay for themselves resulting in a net positive result on the balance sheet.

Air abatement systems consume significant electrical power and in some cases require a sizeable volume of natural gas.

Operating costs of these systems can overwhelm first cost capital expenditures and therefore need to be understood in order to manage these recurring expenses.

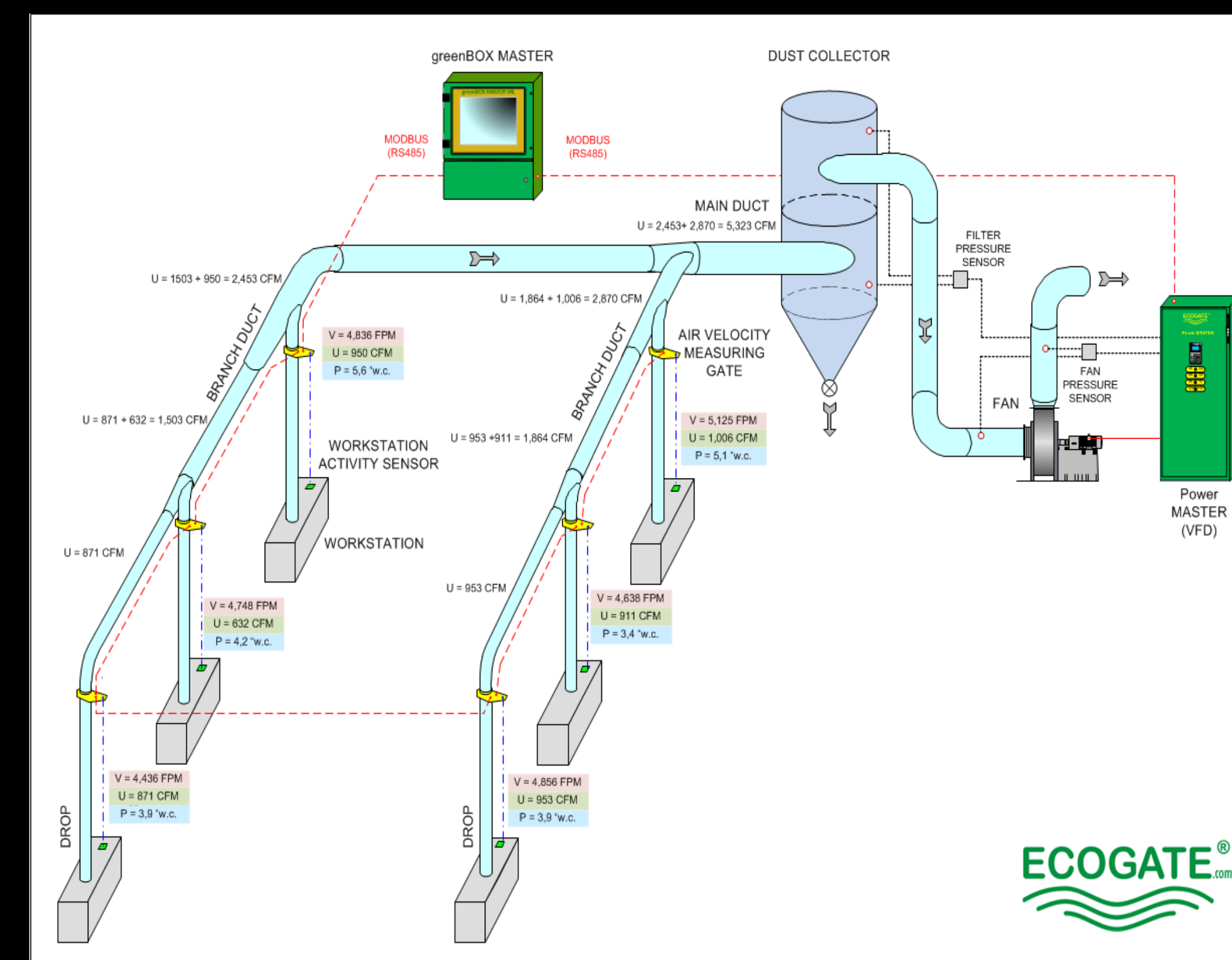
Optimizing air abatement systems with engineered ducting, hoods, collectors, fans, VFDs, and advanced controls can significantly reduce operating costs while providing a cleaner, safer, and healthier work environment. Securing energy efficiency incentives can reduce payback dramatically. Health benefits will be enjoyed by employees and members of the community.

Presented By: Ray Hawksley **EnergyTrust** of Oregon



“This was one of the most compelling projects we have ever completed because it offers real dollar savings in electricity and is not dependent on changing market or business demands that can diminish the savings of many projects over time. And, the savings started the day the system was commissioned.”

**Dan Wagner, Plant Engineering Manger**  
**Brentwood Corporation**



Avoided Capital Expense	\$900,000+
Avoided Annual Electric Cost	\$100,000+
Energy Efficiency Investment	\$515,359
Incentive from Energy Trust	\$257,680
Cost after Incentive	\$257,679
Annual Electric Cost Savings	\$86,000
Payback <i>excluding avoided expense</i> = 3 years	
<b>True Financial Savings vs. System Expansion:</b>	
\$642,321+ Upfront AND \$186,000+ Annual Expense	

