

Climate Change , Air Quality & AAAE SEC Airports

**Presentation to the:
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Discussion Topics

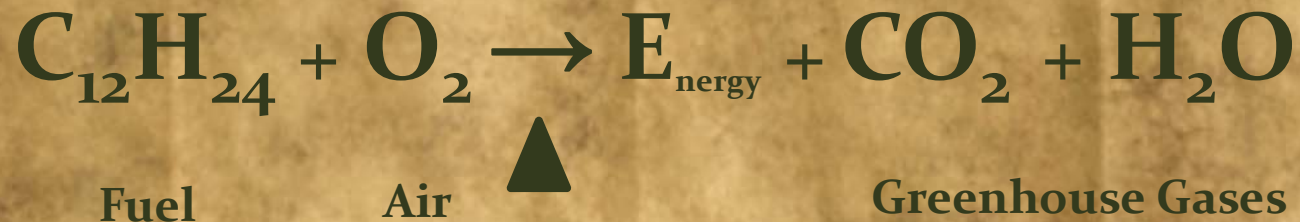
1. **Climate Change**
 - CO₂ a natural by-product.
 - Ownership is “key”.

2. **Air Quality**
 - O₃ Non-attainment Areas
 - Pb and P_{M10.1} concerns

3. **Airport Outlook**
 - Public & Industry Perceptions
 - SEC Airports Action Plan

Greenhouse Gases

1. Natural by-products of fuel combustion.

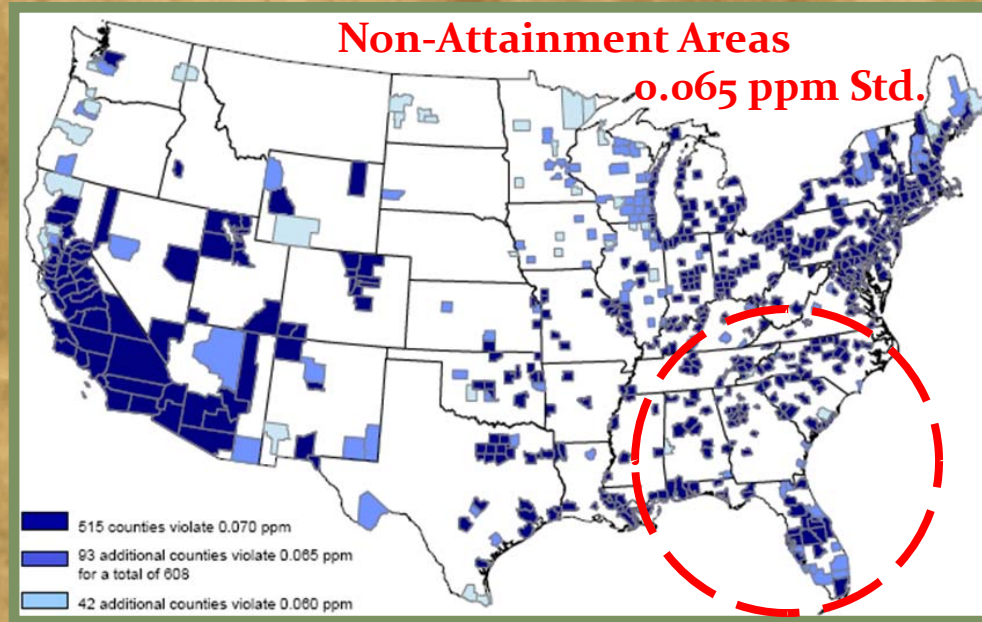


Ideal and ~99+% Efficient

2. Aviation ~ 2% manmade CO₂ nationally.
3. Reporting for sources > 25,000 MT CO₂.
4. Ownership and boundaries “key” to management.



Ozone



- Aug. 2011: Non-attainment Designations
- Aug. 2012: CAA Conformity Rule Applies.
- Dec. 2013: New SIPs released.

Lead

- National Ambient Air Quality Standard (U.S. EPA)
 - ✓ 10-fold lower ($1.5 \text{ ug/m}^3 \rightarrow 0.15 \text{ ug/m}^3$)
 - ✓ Calls for outdoor air monitoring
- Leaded Avgas Petition (Friends of Earth)
 - ✓ Assumes no “safe” level for lead
 - ✓ Replace 100LL Avgas

PM_{0.1}

- Health studies aimed at PM_{0.1}.
- Size of aircraft engine exhaust.



Public Perception



“Is Life Under the Flight Path More Toxic?” Nov. 19, 2008



“Study Uncovers Harmful Air Around Teterboro Airport” Feb., 12, 2008

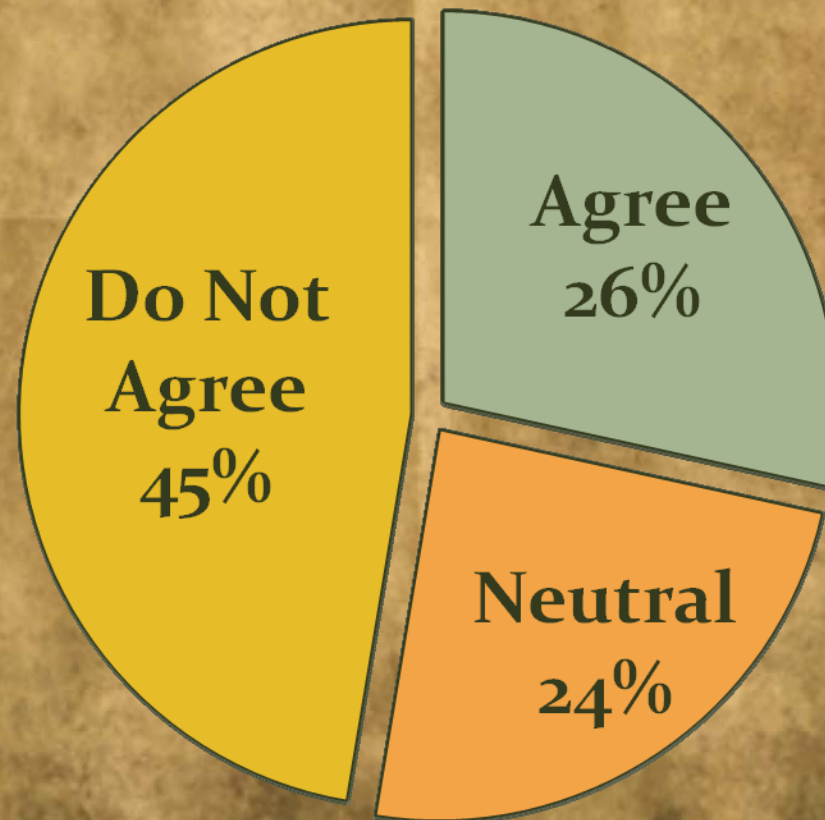


“Homeowners Near the Airport Fear They Are Living in a Toxic Zone, the Fumes are Making Them Sick and May Even Be Killing Them”

Channel 9, KCAL Santa Monica, CA. 1997

Industry Perception

*The Aviation Sector Is Effectively Managing It's Greenhouse Gases.**



Connecting the dots...

1.) Climate Change

- CO₂ a natural by-product.
- Ownership is “key”.

2.) Air Quality

- O₃ Non-attainment Areas
- Pb and PM₁₀ concerns

3.) Airport Outlook

- Low Public & Industry Perceptions.
- SEC Airport Actions

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