Risk Reduction Matrix

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What is the Risk Reduction Matrix?

- A web-based matrix of voluntary air toxics risk reduction activities for indoor, stationary, and mobile sources which provides the public, States, locals and Tribes with options for reducing their exposures to air toxics.

- Activities include practical options for voluntary reduction activities for air toxics that can be used by communities and small business owners.

- Reduction activities also describe opportunities for environmental, health, and economic benefit.

How Does the Matrix Work?

- Each risk reduction activity identifies calculators or other tools that can help you determine the benefits of undertaking that activity.
- Identifies measures that can be implemented at the State and local levels to reduce toxic air pollution.
- Takes a comprehensive look at ambient air quality pollution sources (both stationary and mobile) and indoor pollution.
- Includes assessment guides that will help community leaders understand exposure risk levels.

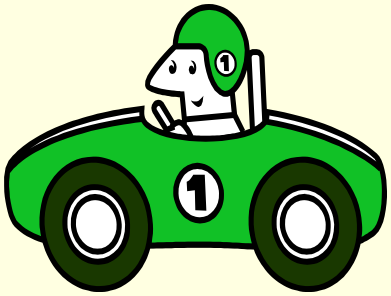
The Matrix Contains:

- Specific activities that you can undertake to reduce risk
- Background information on these activities
- Health benefits and emissions reductions
- Costs to establish and maintain each activity
- Where to find more information

The Matrix Contains:

- Indoor Air

- Outdoor Air – stationary sources



- Outdoor Air – mobile sources

Indoor Air

You can improve your indoor air quality and your health in a number of ways.

- Gas Can Replacement
- Green Procurement
- Hospitals
- Improve Indoor Air Quality (IAQ) in Schools
- Lodging Sector
- Pesticides in the Home
- Radon
- Reduce Exposure to Environmental Tobacco Smoke
- Residential Wood Burning
- Special Concerns in Older Homes: Asbestos
- Special Concerns in Older Homes: Lead

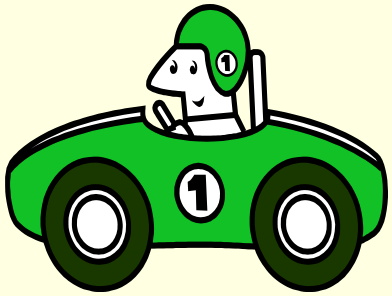
Outdoor Air – Stationary Sources

These activities include: substituting materials, recycling materials, reducing emissions, and changing or modifying processes.

- Auto Body Repair Shops
- Backyard Trash Burning
- Boilers
- Dry Cleaning
- Electroplating
- Fiberglass Fabrication
- Gas Can Replacement
- Healthcare Industry (Hospitals)
- Hospitality Industry (Lodging Sector)
- Lawn Equipment
- Metal Operations
- Oil and Natural Gas Production
- Paint and Coating Manufacturing
- Painting and Coating Operations
- Paint and Coating Stripping Operations
- Residential Wood Burning
- Wood Furniture Operations

Outdoor Air - Transportation Sources

Mobile sources emit a variety of air toxics.



- Gas Cans
- Yard Equipment
- Clean School Bus USA Fuel Savings from Reduced School Bus Idling Calculator
- Mobile Source Air Toxics
- Transportation and Air Quality Overview
- Retrofit Calculator
- Business Benefits Calculator

Status of Matrix

- Going through Agency review
- Will add more source categories in the future
- Will be linked off of EPA's Community webpage
  http://www.epa.gov/air/toxicair/community.html

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