

Prepared by:
Amy J. Gaskill, APR
OAQPS/OID/IPOG

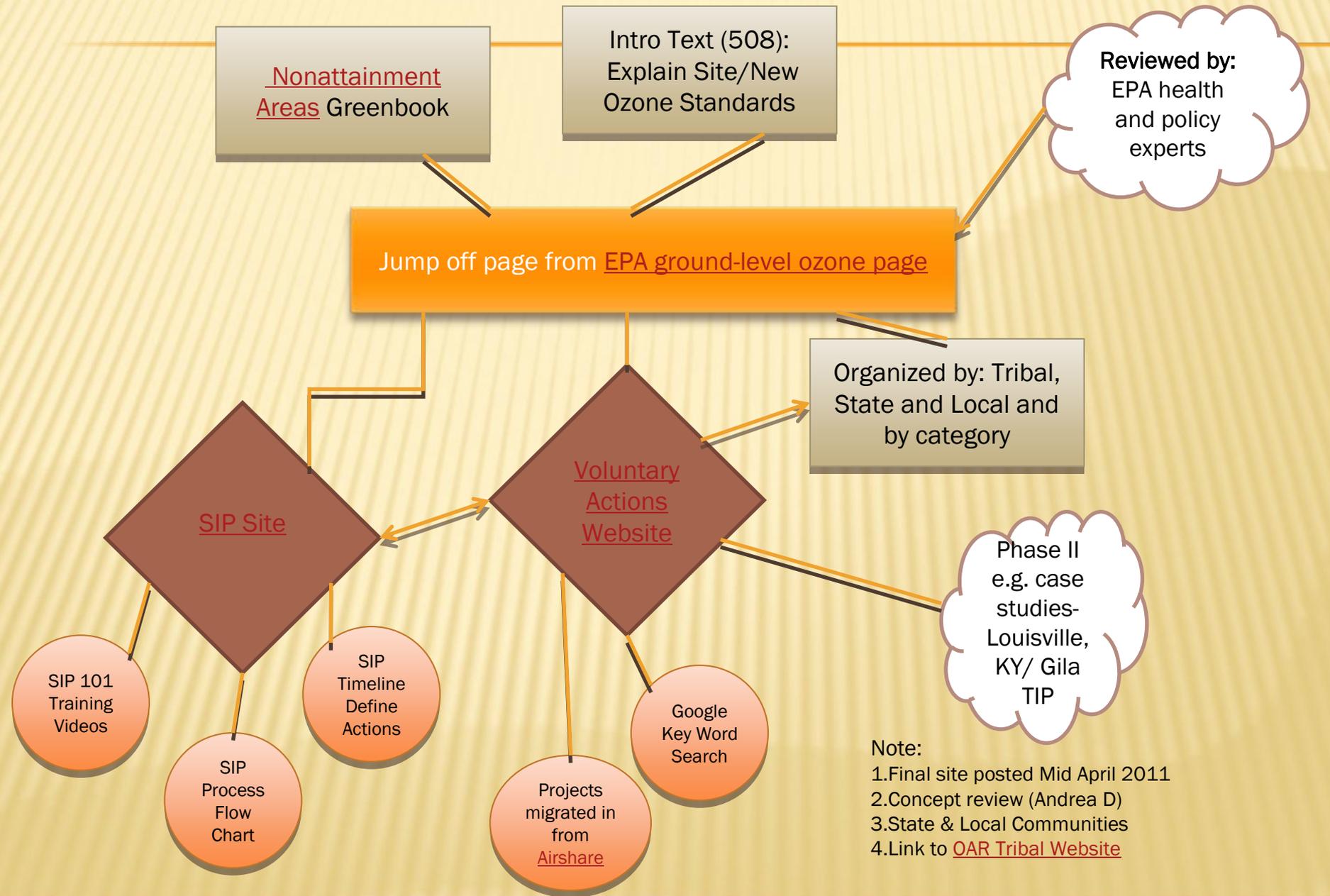
Presented at:
2011 National Air Quality Conference
March 8, 2011

OZONE REDUCTION STRATEGIES

PURPOSE

- ✘ New nonattainment areas looking for help
- ✘ Adopting some voluntary actions can achieve local reductions
- ✘ Website points to successful examples of local reduction activities (not the end all)
- ✘ Partnership with state, local and tribal clean air agencies provides helping hands

OZONE OUTREACH – RESOURCE WEB SITE(S)



Nonattainment Areas Greenbook

Intro Text (508):
Explain Site/New
Ozone Standards

Reviewed by:
EPA health
and policy
experts

Jump off page from EPA ground-level ozone page

Organized by: Tribal,
State and Local and
by category

SIP Site

Voluntary
Actions
Website

SIP 101
Training
Videos

SIP
Process
Flow
Chart

SIP
Timeline
Define
Actions

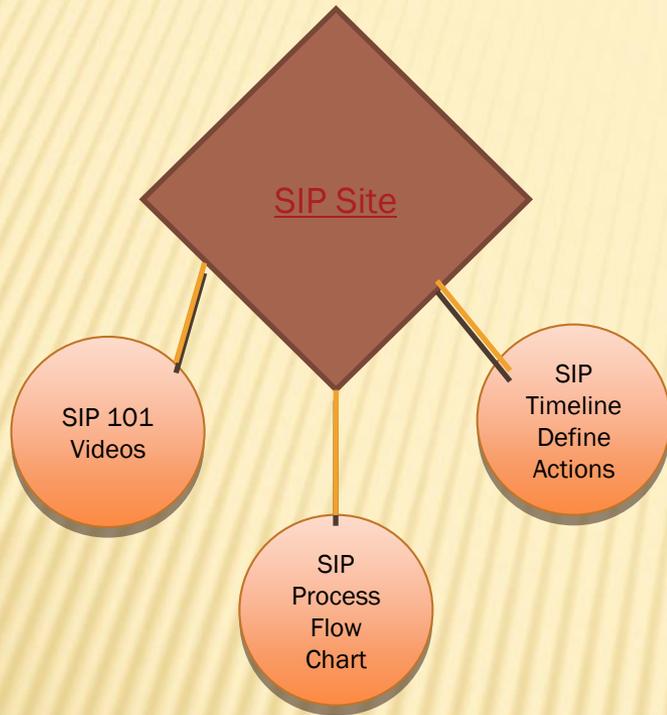
Projects
migrated in
from
Airshare

Google
Key Word
Search

Phase II
e.g. case
studies-
Louisville,
KY/ Gila
TIP

Note:
1. Final site posted Mid April 2011
2. Concept review (Andrea D)
3. State & Local Communities
4. Link to OAR Tribal Website

REGULATORY ACTIONS



State Implementation Site

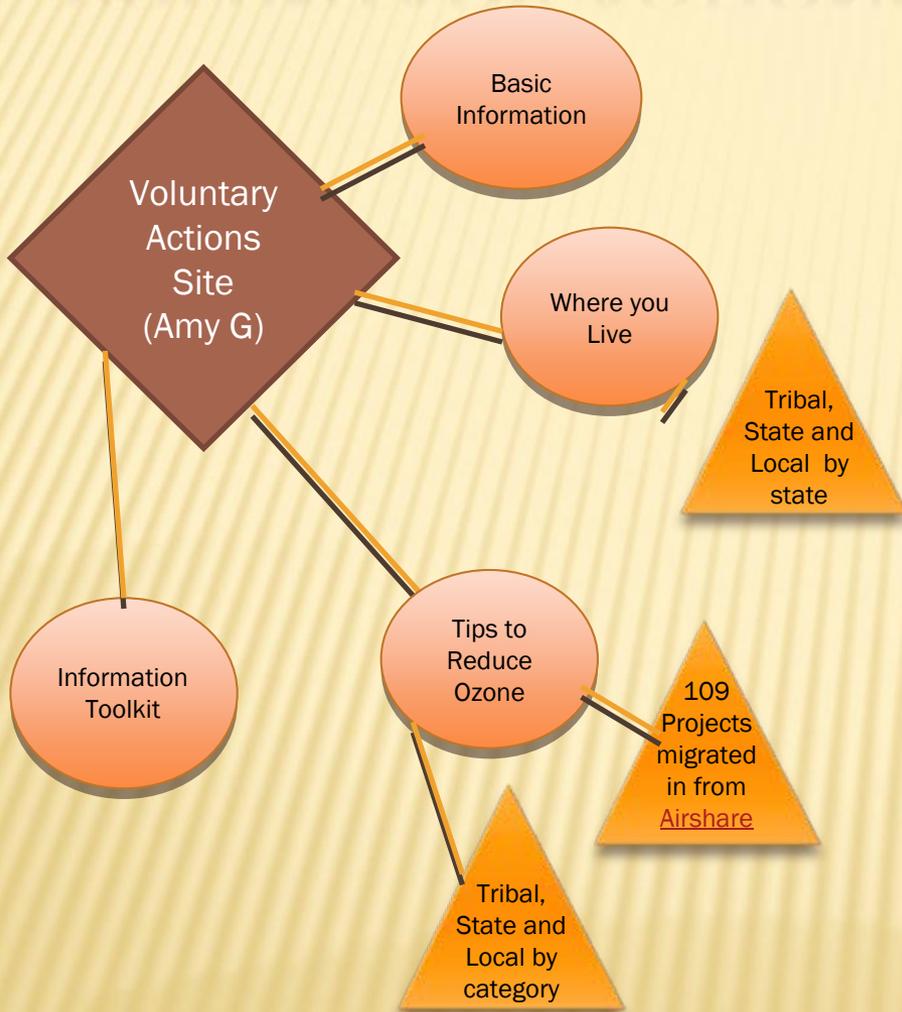
Butch Stackhouse project

- ✓ Flow charts showing process
- ✓ Timeline to meet requirements

SIP 101 Webinars

APTI SIP training videos

VOLUNTARY ACTIONS



➤ Airshare.info – ozone projects

➤ Airshare.info networking site



➤ Partner sites (e.g. [Clean Air Partners](#), [State clean air sites](#), etc...)

➤ [Information Tool Kit](#)
[Heart Disease, Stroke, and Outdoor Air Pollution](#)
[Why is Coco Orange](#)

MAIN PAGE

U.S. ENVIRONMENTAL PROTECTION AGENCY



Voluntary Ozone Reduction Strategies

Share

Contact Us Search: All EPA This Area

You are here: [EPA Home](#) » [Air and Radiation](#) » [Ground-level Ozone](#) » [Ozone Reduction Strategies](#) » Voluntary Ozone Reduction Strategies

Industrial facilities emit a significant amount of the pollutants that form ground-level ozone (nitrogen oxides and volatile organic compounds). But our daily activities can contribute to the problem as well. Driving and refueling our vehicles, mowing the lawn, even exterior painting emits the pollutants that can react to form ozone.

Outreach activities including lawn mower exchange programs, ozone action days, anti-idling, and ride share campaigns can lead to improvements in ozone air quality. This website provides ideas for voluntary programs and contacts to connect with potential partners.

[Basic Information](#) - The basics about EPA's voluntary ozone reduction strategies.

[Where You Live](#) - EPA's state partners are excellent sources of relevant information. They can help you brainstorm and leverage ideas for success.

[Tips to Reduce Ozone](#) - Identify strategies for reducing ozone and its precursors. Please follow the links to successful clean air program websites.

[Funding](#) - Here you will find links to grant and funding opportunities to help make your projects a reality.

[Information toolkit](#) - State Implementation Planning training videos, ozone fact sheets, brochures and multimedia materials for outreach campaigns.

Announcements

January 6, 2010

- EPA proposes revisions to national standards for ground-level ozone. [Learn more](#)
- EPA extends the deadline for area designations for the 2008 ozone standards. [Learn more](#)



[AirShare](#) - Air Quality Communicator's Home Page

- Purpose of site
- Linkages to rest of site
- Linkages to SIP process and status

[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)

<http://www.epa.gov/airquality/ozonestrategy/>
[Print As-Is](#)

Last updated on February 17, 2011

Ground-level
Ozone

Voluntary Ozone
Reduction
Strategies Home

Basic Information

Where You Live

Tips to Reduce
Ozone

Funding

Information Toolkit

BASIC INFORMATION

U.S. ENVIRONMENTAL PROTECTION AGENCY



Voluntary Ozone Reduction Strategies

Contact Us Search: All EPA This Area

Share

You are here: [EPA Home](#) » [Air and Radiation](#) » [Ground-level Ozone](#) » [Ozone Reduction Strategies](#) » [Voluntary Ozone Reduction Strategies](#) » Basic Information

Ground-level Ozone

Voluntary Ozone Reduction Strategies Home

Basic Information

Where You Live

Tips to Reduce Ozone

Funding

Information Toolkit

Basic Information

The [Clean Air Act](#) provides the framework for national, state, tribal, and local efforts to protect air quality. Improvements in air quality are the result of effective implementation of clean air laws and regulations, as well as efficient industrial technologies. Under the Clean Air Act, EPA has a number of responsibilities, including:

- Conducting periodic reviews of the National Ambient Air Quality Standards (NAAQS) for the [six common pollutants](#) that are considered harmful to public health and the environment.
- Ensuring that these air quality standards are met (in cooperation with the state, tribal, and local governments) through national standards and strategies to control air pollutant emissions from vehicles, factories, and other sources.
- Ensuring that sources of toxic air pollutants that may cause cancer and other adverse human health and environmental effects are well controlled and that the risks to public health and the environment are substantially reduced.

The Clean Air Act requires states with areas that fail to meet the NAAQS to submit [state implementation plans](#) (SIPs) to EPA. These plans must provide for implementation, maintenance, and enforcement of the primary and secondary NAAQS established by EPA under Title I of the Act.

State, local and tribal agencies could benefit greatly from employing [voluntary actions](#) along with required [regulatory actions](#) to meet their clean air goals. Programs like "ozone action days" on which drivers and businesses voluntarily take actions to reduce their emissions that form ground-level ozone -- may be more cost-effective than the prescriptive measures required in nonattainment areas. Such actions may benefit air quality not only where they are taken, but also in downwind areas that may be affected by declining air quality.

[Voluntary programs](#) educate citizens about their role in contributing to air pollution and the role they can play in reducing it. By incorporating voluntary actions alongside regulatory actions a state may meet their ozone reduction attainment goals more quickly and with stronger community support.

This [Ozone Reduction Strategies website](#) will provide you with links to partners who are already experiencing success with their voluntary ozone reduction programs. It will also lead you to the [State Implementation Plan website](#) which will lead you step-by-step through that regulatory process.

[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)

<http://www.epa.gov/airquality/ozonestrategy/basic.html>

[Print As-Is](#)

Last updated on February 17, 2011

- Background to ozone standard
- State requirements to meet standard
- Linkages to voluntary strategies and SIP websites

STATE IMPLEMENTATION PLAN STATUS

U.S. ENVIRONMENTAL PROTECTION AGENCY



Six Common Air Pollutants

Contact Us Search: All EPA This Area



You are here: [EPA Home](#) » [Air & Radiation](#) » [Six Common Air Pollutants](#) » State Implementation Plan Status and Information

State Implementation Plan Status and Information

This web site identifies how states and EPA work together to ensure that the agency's [National Ambient Air Quality Standards \(NAAQS\)](#) are met and maintained. The Clean Air Act requires states to develop a general plan to attain and maintain the NAAQS in all areas of the country and a specific plan to attain the standards for each area designated nonattainment for a NAAQS. These plans, known as State Implementation Plans or SIPs, are developed by state and local air quality management agencies and submitted to EPA for approval. This web site contains information on this process:

- [State Implementation Plan Overview](#). An overview of State Implementation Plans.
- [State Implementation Plan Development Process](#). A summary of the steps states must follow when EPA revises or sets a new national ambient air quality standard.
- [Status of Nonattainment Area and Ozone Transport Region SIP Requirements](#). States that have areas not meeting any one of the NAAQS must submit state plans to EPA that detail how they will meet and continue to meet the standards. EPA must approve or disapprove these plans. This page shows the status of each state submittal and EPA action on required SIP elements for each nonattainment area, including Ozone Transport Region requirements for specific states.
- [Infrastructure SIP Element Reports](#). The status of the state submittal and EPA action on the submittal for required infrastructure elements.
- [Clean Data Policy & Redesignation Policy](#). Overview of EPA policies and implementation rules outlining EPA interpretations of the provisions of the Clean Air Act as they apply to areas that have attained standards.
- [EPA Regional Office Implementation Plan Links](#). Regional SIP Web Pages where state regulations which have been incorporated by reference into the SIP are located.

[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)

<http://www.epa.gov/airquality/urbanair/sipstatus/>
[Print As-Is](#)

Last updated on April 29, 2010

➤ Identifies how states and EPA work together to ensure NAAQs are met and maintained

[Air & Radiation Home](#)

[Six Common Air Pollutants Home](#)

[Ozone](#)

[Particulate Matter](#)

[Carbon Monoxide](#)

[Nitrogen Oxides](#)

[Sulfur Dioxide](#)

[Lead](#)

[Designations](#)

[State](#)

[Implementation Plan Status and Information](#)

WHERE YOU LIVE

U.S. ENVIRONMENTAL PROTECTION AGENCY



Voluntary Ozone Reduction Strategies

Share

Contact Us Search: All EPA This Area Go

You are here: [EPA Home](#) » [Air and Radiation](#) » [Ground-level Ozone](#) » [Ozone Reduction Strategies](#) » [Voluntary Ozone Reduction Strategies](#) » Where You Live

Where You Live

Find a partner in your community by clicking on your state on the map below or in the pull down menu. GO



[Federal Partners](#)

[Regional Partners](#)

[International Partners](#)

[National Organizations](#)



[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)

<http://www.epa.gov/airquality/ozonestrategy/partners.html>

[Print As-Is](#)

Last updated on February 17, 2011

Ground-level Ozone

Voluntary Ozone Reduction Strategies Home

Basic Information

Where You Live

Tips to Reduce Ozone

Funding

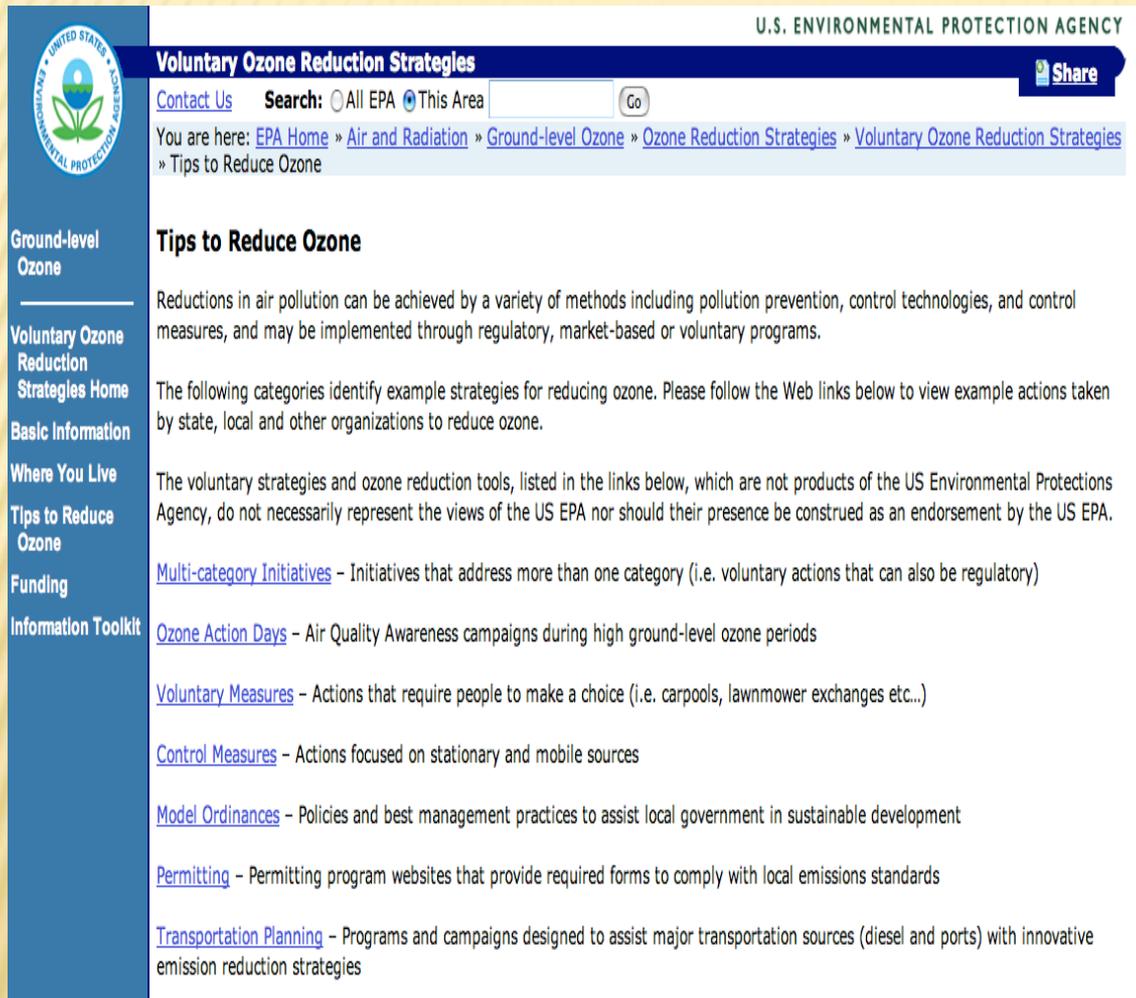
Information Toolkit

➤ Centerpiece of website

➤ Direct links to Federal, Tribal, State and Local air quality organizations

➤ Direct links to Federal, Regional, National and International Partners

TIPS TO REDUCE OZONE



The screenshot shows the EPA website's 'Voluntary Ozone Reduction Strategies' page. At the top, it features the EPA logo and the text 'U.S. ENVIRONMENTAL PROTECTION AGENCY'. Below this is a navigation bar with a search box and a 'Share' button. The breadcrumb trail reads: 'You are here: EPA Home » Air and Radiation » Ground-level Ozone » Ozone Reduction Strategies » Voluntary Ozone Reduction Strategies » Tips to Reduce Ozone'. The main heading is 'Tips to Reduce Ozone', followed by a paragraph explaining that reductions in air pollution can be achieved through various methods. Below this, a list of categories is provided, each with a brief description and a link to more information.

Voluntary Ozone Reduction Strategies

Contact Us Search: All EPA This Area [Share](#)

You are here: [EPA Home](#) » [Air and Radiation](#) » [Ground-level Ozone](#) » [Ozone Reduction Strategies](#) » [Voluntary Ozone Reduction Strategies](#) » [Tips to Reduce Ozone](#)

Tips to Reduce Ozone

Reductions in air pollution can be achieved by a variety of methods including pollution prevention, control technologies, and control measures, and may be implemented through regulatory, market-based or voluntary programs.

The following categories identify example strategies for reducing ozone. Please follow the Web links below to view example actions taken by state, local and other organizations to reduce ozone.

The voluntary strategies and ozone reduction tools, listed in the links below, which are not products of the US Environmental Protections Agency, do not necessarily represent the views of the US EPA nor should their presence be construed as an endorsement by the US EPA.

- [Multi-category Initiatives](#) – Initiatives that address more than one category (i.e. voluntary actions that can also be regulatory)
- [Ozone Action Days](#) – Air Quality Awareness campaigns during high ground-level ozone periods
- [Voluntary Measures](#) – Actions that require people to make a choice (i.e. carpools, lawnmower exchanges etc...)
- [Control Measures](#) – Actions focused on stationary and mobile sources
- [Model Ordinances](#) – Policies and best management practices to assist local government in sustainable development
- [Permitting](#) – Permitting program websites that provide required forms to comply with local emissions standards
- [Transportation Planning](#) – Programs and campaigns designed to assist major transportation sources (diesel and ports) with innovative emission reduction strategies

Links to successful local measures across the country. Gleaned by solicitation, Airshare and surfing the Internet.

Listed by category:

- [Multi-category](#)
- [Ozone Action Days](#)
- [Voluntary Measures](#)
- [Control Measures](#)
- [Model Ordinances](#)
- [Permitting](#)
- [Transportation Planning](#)

FUNDING

U.S. ENVIRONMENTAL PROTECTION AGENCY



Voluntary Ozone Reduction Strategies

[Share](#)

[Contact Us](#) Search: All EPA This Area

You are here: [EPA Home](#) » [Air and Radiation](#) » [Ground-level Ozone](#) » [Ozone Reduction Strategies](#) » [Voluntary Ozone Reduction Strategies](#) » Funding

Ground-level
Ozone

Voluntary Ozone
Reduction
Strategies Home

Basic Information

Where You Live

Tips to Reduce
Ozone

Funding

Information Toolkit

Funding

[EPA Regional Office Grant Programs](#) - Includes information on a broad spectrum of funding opportunities, how to apply for a grant, and an application kit for Federal Assistance. These grant opportunities are available to state, local and tribal clean air agencies. Many grant opportunities are available on an annual basis. Regional EPA grants coordinators are listed here.

[Transportation Grants and Funding](#) -Federal funding sources available to state and local agencies for projects relating to transportation and air quality. Funding sources both within and outside EPA are included.

[Grants.gov](#) - A central storehouse for information on over 1,000 grant programs and provides access to approximately \$500 billion in annual awards. New opportunities are posted daily.

EPA provides [grant assistance to Tribes](#) to identify problems, educate staff and communities, implement strategies to reduce air pollution, and work with EPA and states to protect air quality and human health.

[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)

<http://www.epa.gov/airquality/ozonestrategy/funding.html>

[Print As-Is](#)

Last updated on February 17, 2011

➤ Links to EPA regional, tribal and other grant opportunities

INFORMATION TOOLKIT – 10F3

U.S. ENVIRONMENTAL PROTECTION AGENCY



Voluntary Ozone Reduction Strategies

Contact Us Search: All EPA This Area

Share

You are here: [EPA Home](#) » [Air and Radiation](#) » [Ground-level Ozone](#) » [Ozone Reduction Strategies](#) » [Voluntary Ozone Reduction Strategies](#) » Information Tool Kit

Ground-level Ozone

Voluntary Ozone Reduction Strategies Home

Basic Information

Where You Live

Tips to Reduce Ozone

Funding

Information Toolkit

Information Tool Kit

The following categories identify example strategies for reducing ozone. Please follow the Web links below to view example actions taken by state, local and other organizations to reduce ozone.

The voluntary strategies and ozone reduction tools, listed in the links below, which are not products of the US Environmental Protections Agency, do not necessarily represent the views of the US EPA nor should their presence be construed as an endorsement by the US EPA.

Clean Air Act

- The [Plain English Guide to the Clean Air Act](#) provides a brief introduction to the 1990 Clean Air Act. The 1990 Clean Air Act is the most recent version of a law first passed in 1970 to clean up air pollution. This summary covers some of the important provisions of the 1990 Clean Air Act and may help you understand what is in the law and how it may affect you. (updated April 2007)

On-line Training

- [The Air Pollution Training Institute \(APTI\)](#) - provides technical air pollution training to state, Tribal, and local air pollution professionals. APTI's goal is to facilitate professional development by enhancing the skills necessary to understand and implement environmental programs and policies. APTI also provides self-instructional courses, training videos, webinars, and a course calendar for upcoming training by multi-jurisdictional organizations, and some state and local agencies.
- [State Implementation Plans for Ground-Level Ozone: Webinar for State and Local Air Agencies](#) - recording of a webinar held June 16, 2010
- National Association of Clean Air Agencies – [Air Quality Training](#) - State and local air officials receive training on air pollution from a number of sources. Link to many of those sources from this site.

Case Studies and Urban Planning Tools

- [Air Quality Improvement: Guide for Local Governments](#) - A publication of the National Association of Counties.
- [Federal Highway Administration - Livability in Transportation Guidebook](#) - includes information on case studies, programs, resources, and information on partner activities.



[Climate and Air Pollution Planning Assistant \(CAPPA\)](#) is a decision support tool designed to help U.S. local governments explore, identify, and analyze potential climate and air pollution emissions reduction opportunities.

Provides Links to useful background information:

- Fact sheets
- Online training
- EPA publications
- Partnerships
- Programs
- Measurement tools
- SIP credit guidance

TOOLKIT 20F3

EPA Publications

- [A Human Health Perspective on Climate Change \(PDF\)](#) (80pp, 4.9 MB) - A publication of the National Institute of Environmental Health Services.
- [EPA's Science Notebook – Asthma](#) - EPA's *Science Notebook* offers a window into science at the EPA, through stories, interviews, videos, podcasts and more.
- [Ground-Level Ozone Publications](#) - Reports and informational booklets that help people to understand the adverse effects of and protection from ground-level ozone.
- [EPA Airnow's air quality publications](#) -these publications provide information to help raise awareness about air quality index, health factors associated with air pollution and reports that provide technical guidance on air quality forecasting.

Fact sheets/brochures

- [Ground-level Ozone and Health - Fact Sheet \(PDF\)](#) (3pp, 28k)
- [Heart Disease, Stroke, and Outdoor Air Pollution - Fact Sheet \(PDF\)](#) (2pp, 325k)
- [Proposal to revise the National Ambient Air Quality Standards for Ozone – Fact Sheet \(PDF\)](#) (6pp, 39k)
- [Ozone and your health – Brochure \(PDF\)](#) (2pp, 2.6 MB)
- [Smog – Who does it hurt? \(PDF\)](#) (10pp, 818k) - What you need to know about ozone and your health.
- [Summertime Fun – Keeping kids safe from sun and smog – flyer \(PDF\)](#) (2pp, 206k)
- [Ozone Good up High, Bad Nearby](#): Ozone acts as a protective layer above the earth, but it can be harmful to breathe. This publication provides basic information about ground-level and high-altitude ozone.

EPA Air Quality Initiatives/Programs

- [AirNow School Flag Program](#) - Helps children, parents, school personnel and the community be aware of daily air quality conditions using colored flags.
- [Air Quality Awareness Week](#) - The EPA, National Oceanic and Atmospheric Administration's National Weather Service urges Americans to "Be Air Aware" during Air Quality Awareness Week and throughout the year.
- [Enviroflash](#) - EnviroFlash is sponsored by the EPA with support from State and local air quality agencies. EnviroFlash provides air quality information such as forecasts and action day notifications via email for your area of interest.
- [AIRNow](#) - The U.S. EPA, NOAA, NPS, tribal, state, and local agencies developed the AIRNow Web site to provide the public with easy access to national air quality information. The Web site offers daily AQI forecasts as well as real-time AQI conditions for over 300 cities across the US, and provides links to more detailed State and local air quality Web sites.

TOOLKIT 30F3

EPA Partnerships

- [Tribal Air](#) - Native American Tribes have a primary role air resources in Indian country. Indian tribes have express authority under the Clean Air Act to manage air quality on their reservations.



[Smartgrowth Network](#) – The EPA joined the US Departments of Housing and Urban Development and Transportation to help improve access to affordable housing, more transportation options, and lower transportation costs while protecting the environment in communities nationwide.

- [EPA Partnership Programs](#) offer participating enterprises a wide variety of valuable services and resources to reduce their overall environmental impact.
- [Environmental stewardship](#) is the responsibility for environmental quality shared by all those whose actions affect the environment. While all of EPA's work supports environmental stewardship in some way, users can search here for some of the programs and resources that may be of most interest.
- [Voluntary initiatives](#) that can help state and local agencies, community groups, businesses and other organizations improve air quality by reducing emissions from the transportation sector.

Voluntary Initiatives and Measurements– SIP Credits

- [Incorporating Voluntary Stationary Source Emission Reduction Programs Into State Implementation Plans](#) - EPA guidance documents outlining basic processes in place for securing air quality credit for voluntary and innovative emission reduction programs in the context of state implementation plans, emission trading programs, and economic incentive programs.
- [Incorporating Emerging and Voluntary Measures in a State Implementation Plan \(PDF\)](#) (30pp, 63k): Guidance on how to include and apply for credit for voluntary stationary source emission reduction programs in a SIP.
- [Guidance on Incorporating Bundled Measures in a State Implementation Plan](#)
Guidance on how to combine the sum of emissions reductions from a group of emerging measures (transportation and stationary) for the purposes of submitting them to EPA in a single SIP submission.
- [Voluntary Programs to Improve Transportation and Air Quality](#) - that can help state and local agencies, community groups, businesses and other organizations improve air quality by reducing emissions from the transportation sector.
- [Voluntary Mobile Source Emission Reduction Program in SIPs \(PDF\)](#) (15pp, 39k): Voluntary mobile source measures have the potential to contribute, in a cost-effective manner, emission reductions needed for progress toward attainment and maintenance of the National Ambient Air Quality
- [Guidance for Quantifying and Using Long Duration Truck Idling Emission Reductions \(PDF\)](#) (33pp, 378k): emission reductions may be quantified in State Implementation Plans and Transportation Conformity
- [Guidance for Quantifying and Using Long Duration Switch Yard Locomotive Idling Emission Reductions \(PDF\)](#) (24pp, 726k): Reductions may be quantified in State Implementation Plans
- [Protect the Environment: On the Road](#) - Information on the environmental impacts of transportation.
- [Mobile source-based control strategies calculators](#) - State, local and tribal agencies can use these calculators and tools to estimate emission reductions or to conduct analyses of the outcome that a specific emission-reduction strategy may produce.

Airshare.info



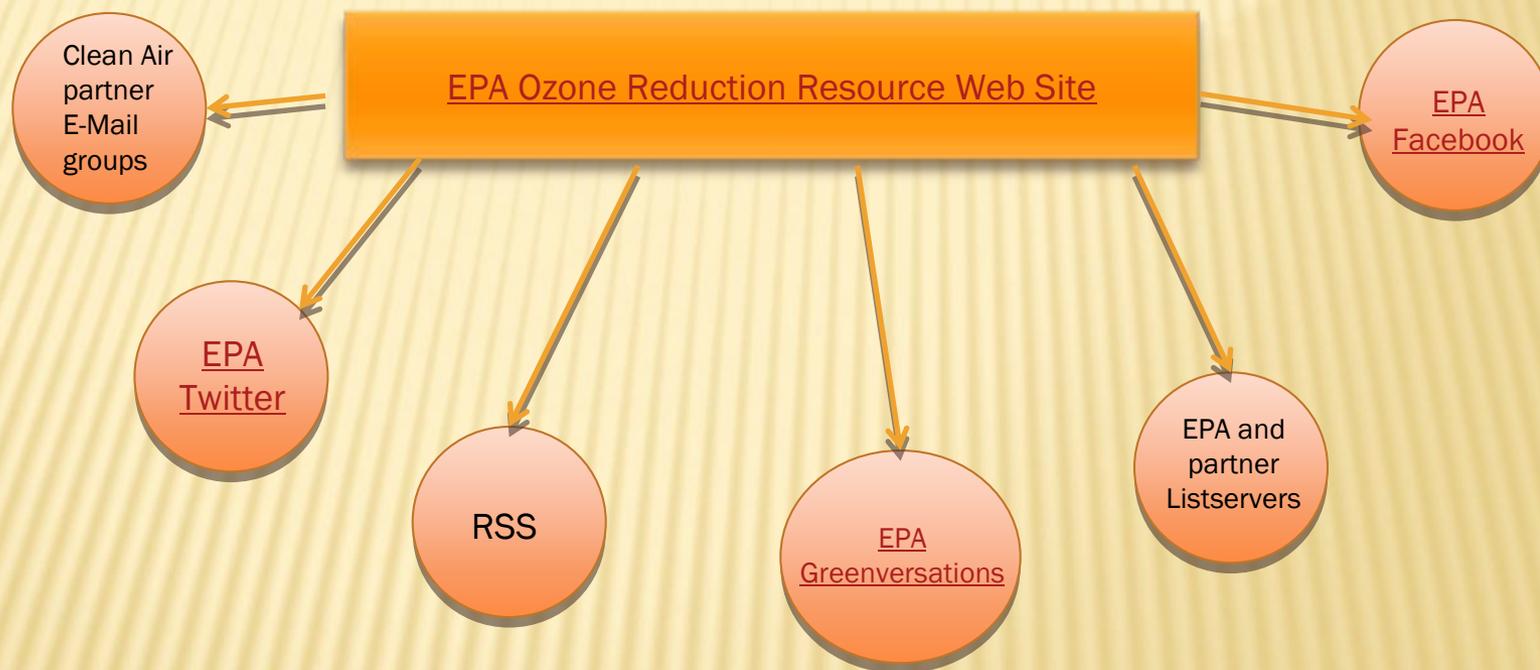
[AirShare](#) - Air Quality Communicator's Home Page. Participate on this peer-to-peer information Website to save time and leverage resources to meet current National Ambient Air Quality Standards. Airshare.info is a place where the collective intelligence of the air quality community thrives with the ongoing conversation about innovative solutions to 21st century challenges.

SHARE AND USE THE RESOURCES

- Share widely with government partners and co-workers
- Identify and fill information gaps
- Commit to working together to migrate information onto Airshare.info
- Commit to maintaining/updating information on Airshare.info



MARKETING STRATEGY (MID APRIL & FINAL NAAQS)



Web address will be broadcast widely when site has received final approvals and again when final NAAQS has been announced.

QUESTIONS?

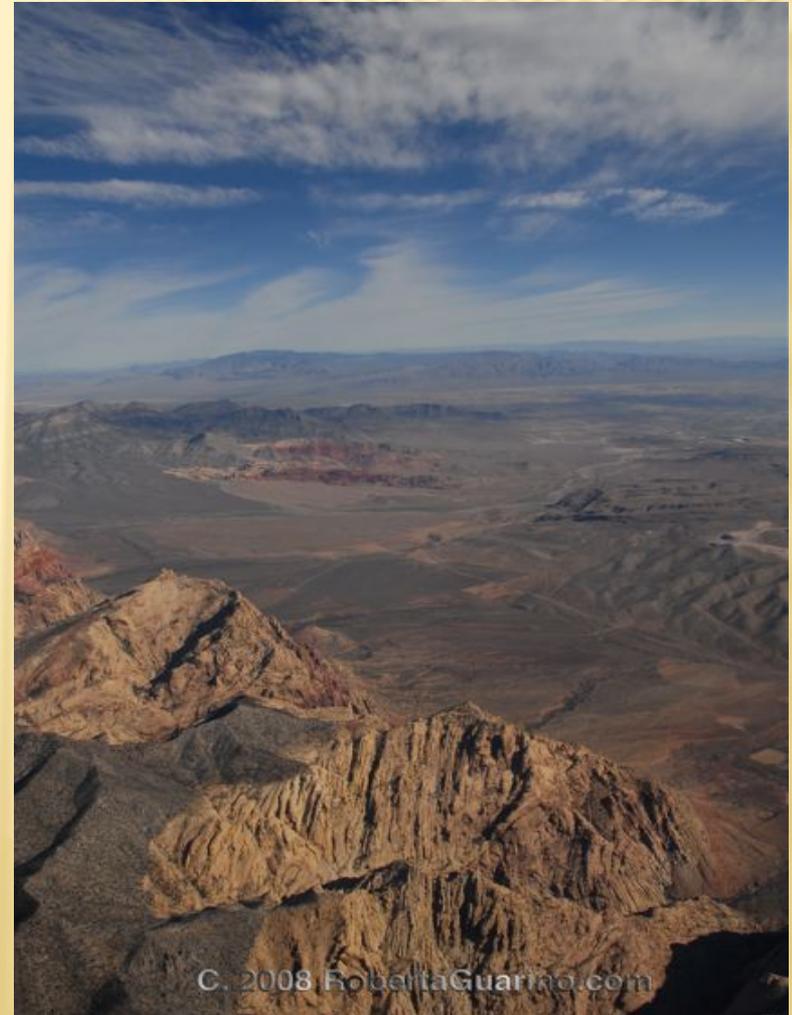
<http://www.epa.gov/airquality/ozonestrategy/>

Username: Ozone

Password: Review

“Collective intelligence emerges when a group works together effectively. When it is synergetic, the whole is greater than the sum of its parts.”

-- Trudy and Peter
Johnson-Lenz,



C. 2008 RobertaGuarino.com