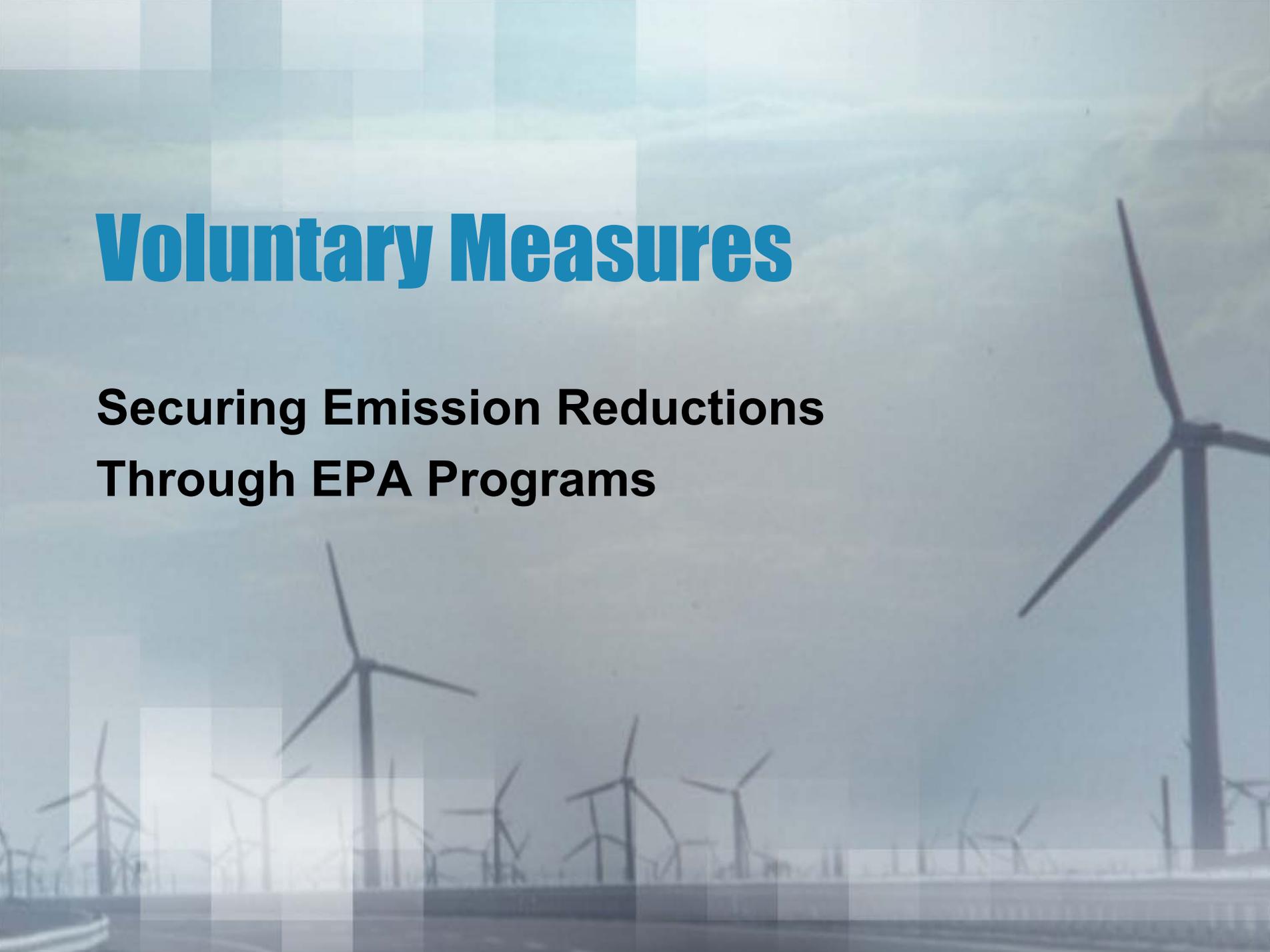


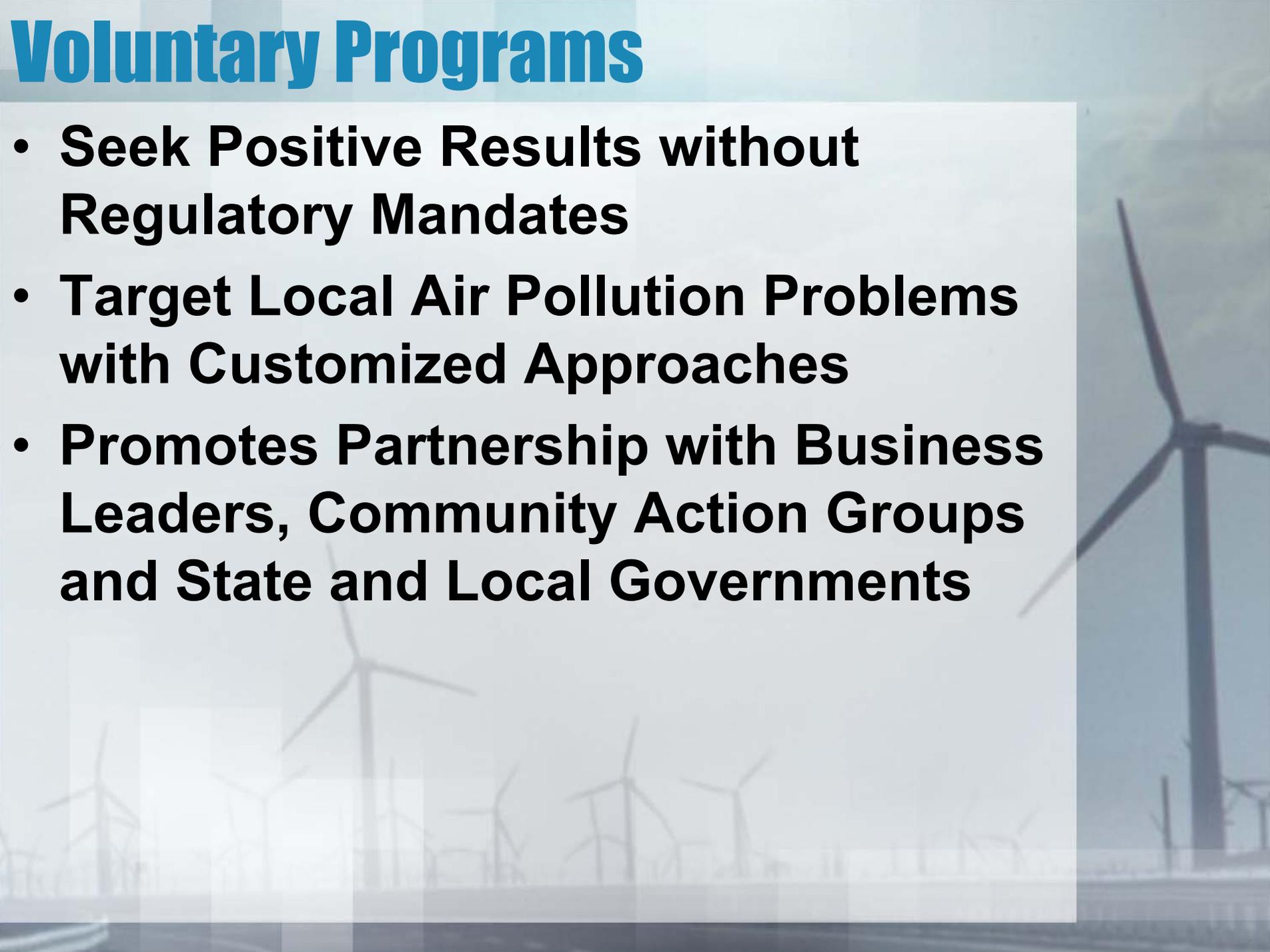
Voluntary Measures

**Securing Emission Reductions
Through EPA Programs**



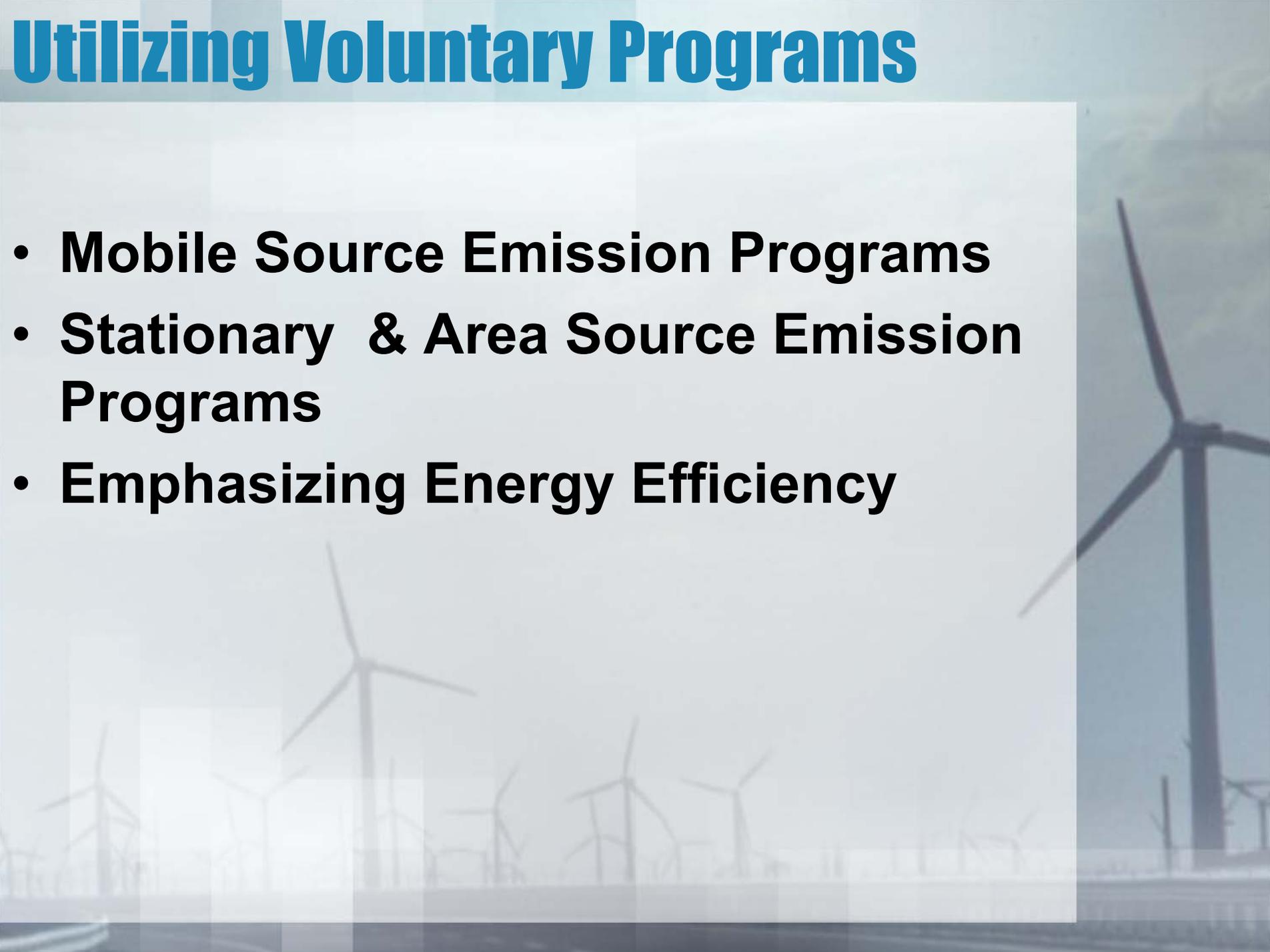
Voluntary Programs

- **Seek Positive Results without Regulatory Mandates**
- **Target Local Air Pollution Problems with Customized Approaches**
- **Promotes Partnership with Business Leaders, Community Action Groups and State and Local Governments**



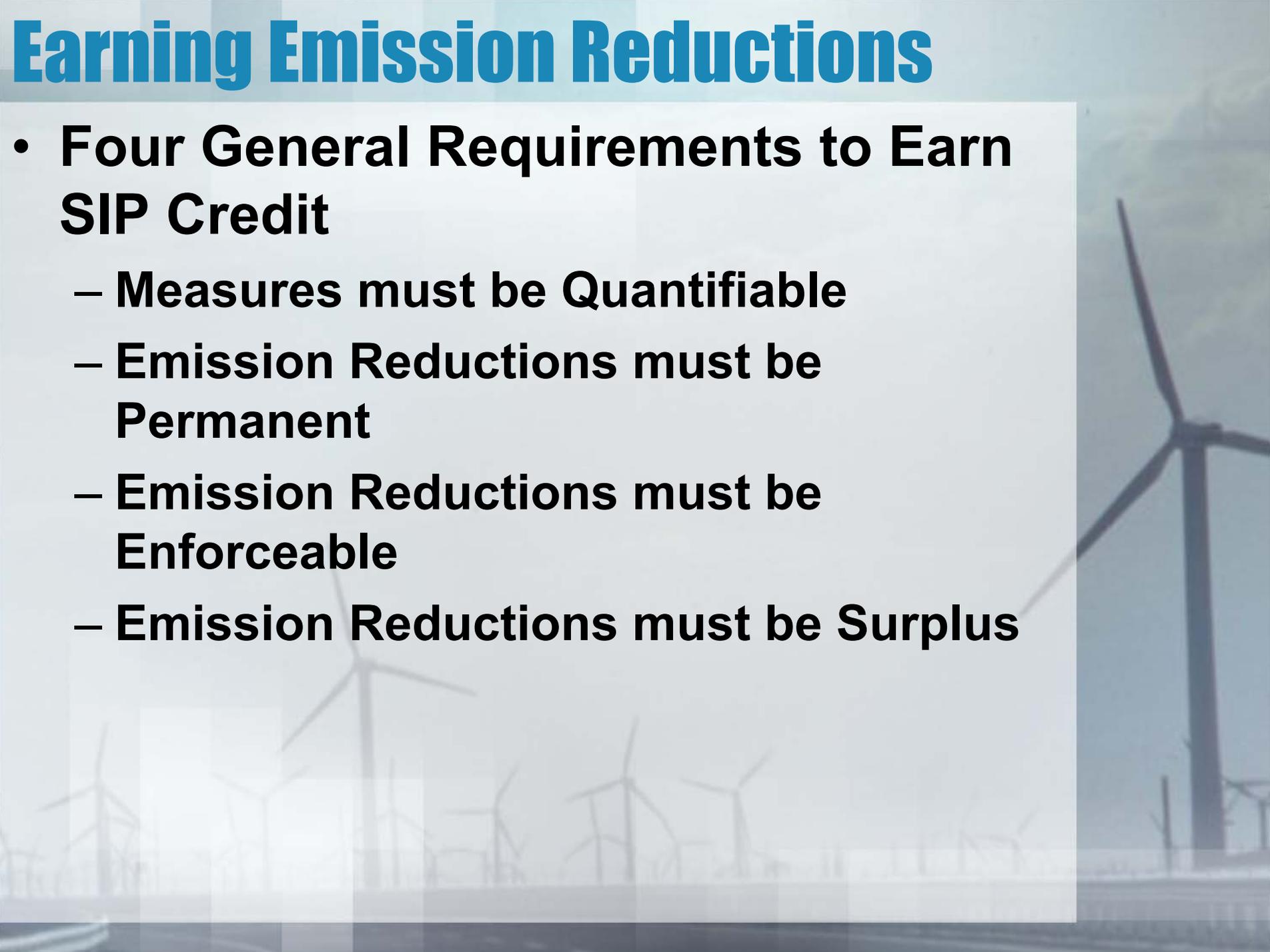
Utilizing Voluntary Programs

- **Mobile Source Emission Programs**
- **Stationary & Area Source Emission Programs**
- **Emphasizing Energy Efficiency**



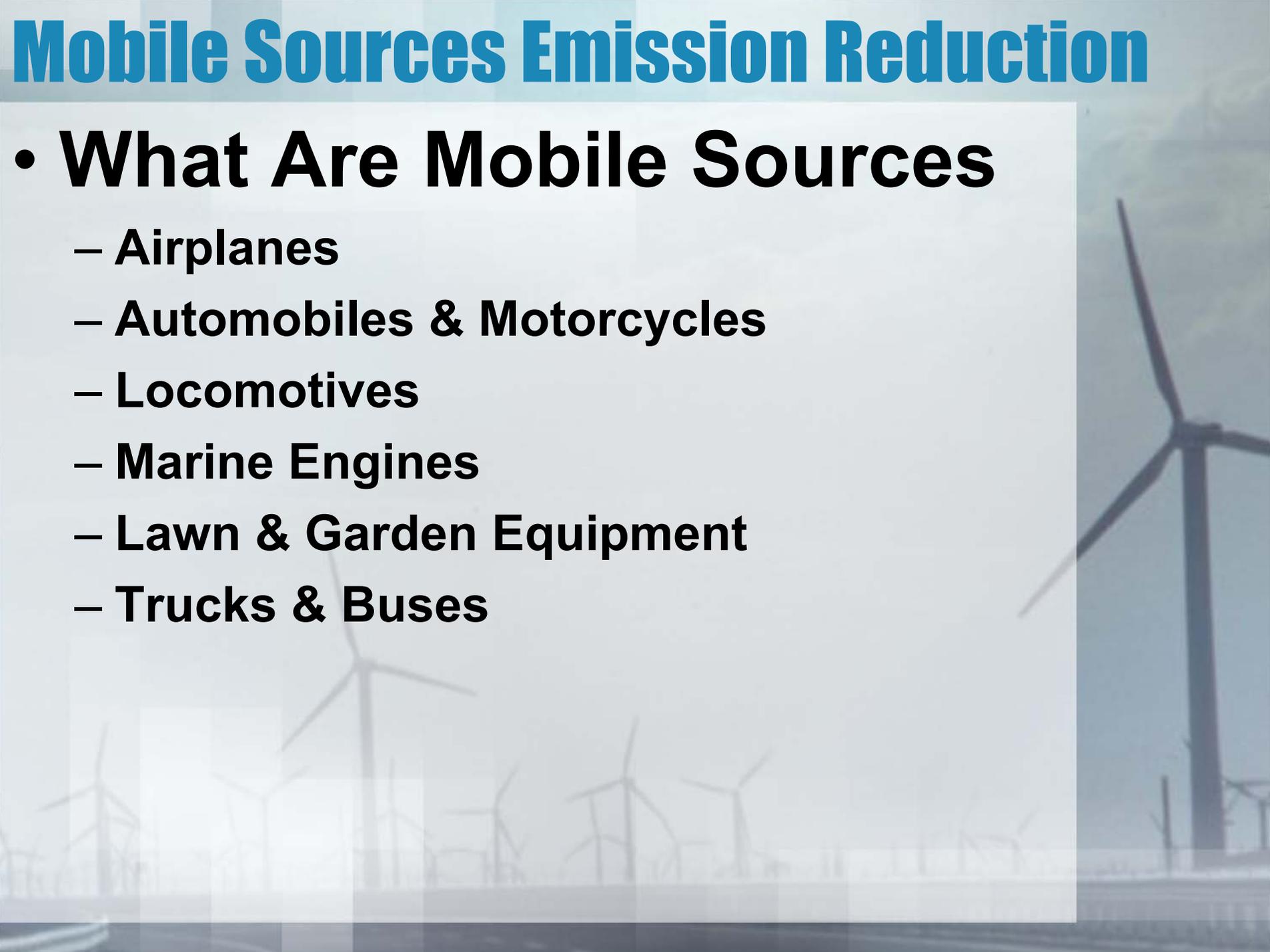
Earning Emission Reductions

- **Four General Requirements to Earn SIP Credit**
 - **Measures must be Quantifiable**
 - **Emission Reductions must be Permanent**
 - **Emission Reductions must be Enforceable**
 - **Emission Reductions must be Surplus**



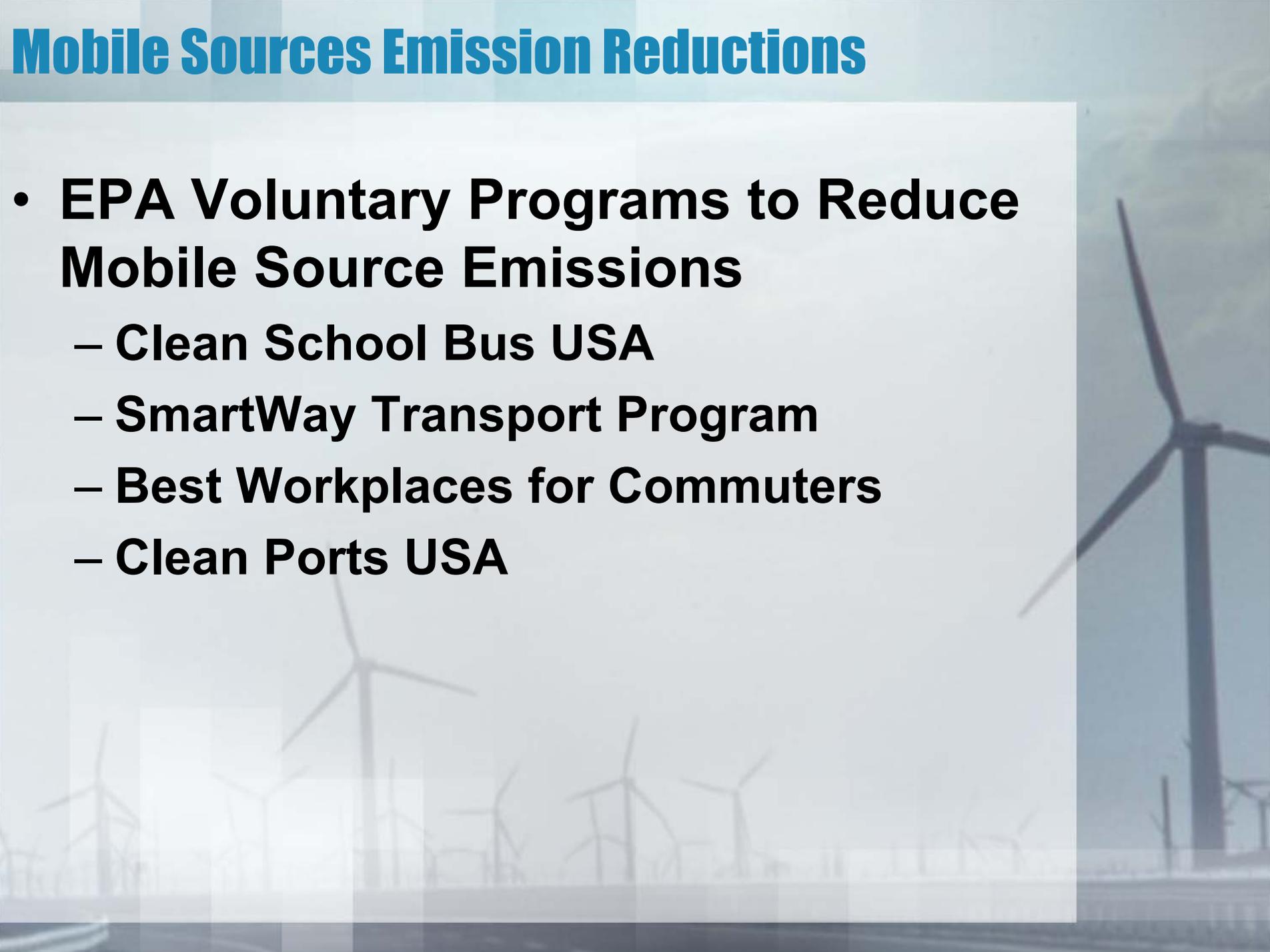
Mobile Sources Emission Reduction

- **What Are Mobile Sources**
 - Airplanes
 - Automobiles & Motorcycles
 - Locomotives
 - Marine Engines
 - Lawn & Garden Equipment
 - Trucks & Buses



Mobile Sources Emission Reductions

- **EPA Voluntary Programs to Reduce Mobile Source Emissions**
 - **Clean School Bus USA**
 - **SmartWay Transport Program**
 - **Best Workplaces for Commuters**
 - **Clean Ports USA**



Guidance for Calculating Mobile Sources Emission Reduction

- **Diesel Retrofits – Quantifying and Using Their Benefits in SIPS and Conformity**
- **Guidance for Quantifying and Using Emission Reductions from Best Workplaces for Commuter Programs in SIPS and Transportation Conformity Determinations**
- **Total of all voluntary measures cannot exceed more than 3% of total reductions needed to meet any requirements for reasonable further progress, attainment or maintenance**



Diesel Retrofit Guidance

- Provides guidance on quantifying and using emission reductions on highway and nonroad diesel vehicles, engines, and equipment that have been retrofitted with emission reduction technology.
- Fulfills the directive from 2005 Energy Policy Act for EPA to provide SIP guidance for retrofit projects under diesel emission reduction provision.
- EPA recommends that states other than California use the National Mobile Inventory Model (NMIM) to quantify emission reductions.

Best Workplaces for Commuters Emission Reductions

Guidance

- **Guidance Supersedes 1998 document “SIP Development Guidance: Using Emission Reductions from Commuter Choice Programs to Meet Clean Air Act Requirements”.**
- **State must identify and describe BWC-related control measure and its implementation schedule to reduce emissions within a specific time period.**
- **States can use COMMUTER model which provides estimates on how commuter benefit programs can impact NO_x, PM and air toxic emissions and fuel use and costs.**



Reducing Stationary & Area Source Emissions

- **2001 – EPA issues guidance for Voluntary Stationary Source Emission Reduction Programs.**
- **Provide an alternative to traditional command and control approaches that have to encourage new, untried and cost-effective approaches to reduce emissions.**
- **Voluntary Measures cannot be used to meet any other emission reduction requirement such as RACT, BACT, BART or NSPS.**



Stationary & Area Source Emission Programs

- **Can be continuous or episodic**
- **Seasonal – usually in effect when an area experiences high pollution concentration.**
- **Air Quality Action Days**
- **No Burn Days for PM programs – woodstoves, agricultural burning**
- **Heat Island Programs**
 - **Cool Roofs**
 - **Green Roofs**
 - **Trees & Vegetation**
- **Measures are limited to 3% reductions needed to demonstrate attainment of the NAAQS**



Guideline for Receiving SIP Credits for Stationary & Area Source Voluntary Measures

- **Measures must meet the four general SIP requirements to receive credit**
- **In addition to the general requirements, States must also:**
 - **Identify the source or facility that will be involved in the emission reduction activity.**
 - **Explain the emission reduction technique and provide a detailed estimate of the amount of emissions that will be reduced.**
 - **Identify the number of sources that will participate in the voluntary measure and provide documentation how the number was derived.**

Emphasizing Energy Efficiency

- **August 2004 EPA Issued Guidance on SIP Credits from Electric Sector Energy Efficiency and Renewable Energy Measures.**
 - **Projects that qualify for SIP Credits under this guidance include:**
 - **Electric Sector Energy Efficiency and Renewable Energy Projects**
 - **Measures that will result in quantifiable reductions in emissions at existing fossil fuel-fired EGU's and will improve air quality in non-attainment areas.**



Energy Efficiency Measures

- **Demand Side Management Energy Efficient Projects**
 - Replacing Electrical Devices with more energy efficient devices (i.e. Energy Star products)
 - Programs related to design, construction or reconstruction that result in energy savings.
- **Supply Side Measures which include new and innovative measures to increase the efficiency or decrease the emissions from electricity generation. Projects include:**
 - Combined Heat and Power Projects
 - Fuel Cell Power Generation
 - Renewable Energy Project (wind power, solar power)



Conclusion

- **Voluntary measures can be a reliable source for achieving additional emission reductions**
- **EPA has provided states with models and calculators to assist planners in quantifying the emission reductions attained through voluntary programs.**
- **Voluntary measures can be a cost saving benefit to achieve emissions reductions since energy prices and control technologies grow increasingly expensive.**

