

Amendments to the Low Emission Vehicle Program in Delaware

Division of Air Quality

March 28, 2013

The Purpose

- Delaware is committed to protecting public health and the environment through programs and policies that address air pollution and climate change.



Health effects

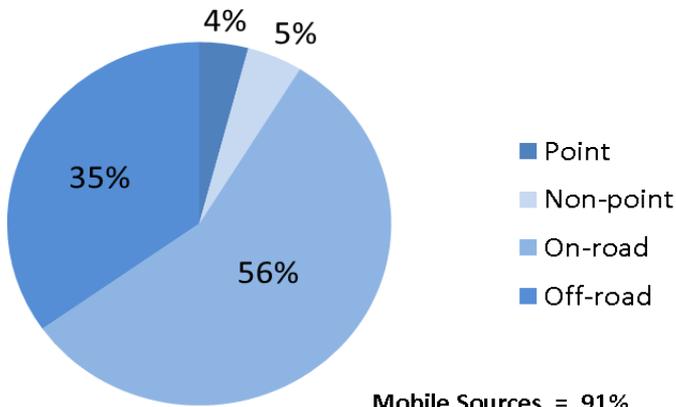
- Smog, particle pollution, and toxic pollutants pose serious health concerns and increase the incidence of cardio-pulmonary diseases, asthma, and cancer, especially for sensitive groups of people including children, older adults, and people with heart or lung diseases.

The Environment

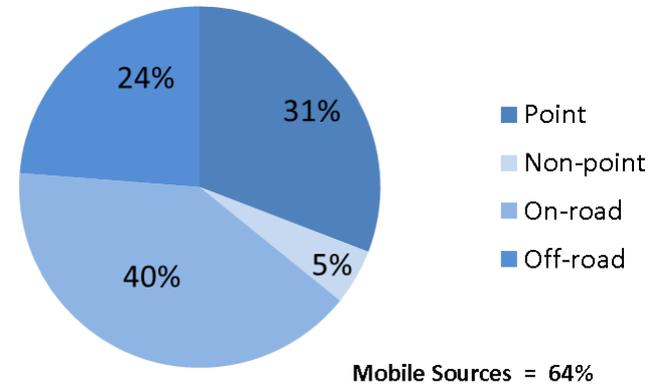
- Continued reductions of criteria pollutant emissions are needed to ensure and maintain national ambient air quality standards.
- Significant reductions in GHG emissions are needed to address the growing threat of climate change in Delaware.

Emissions

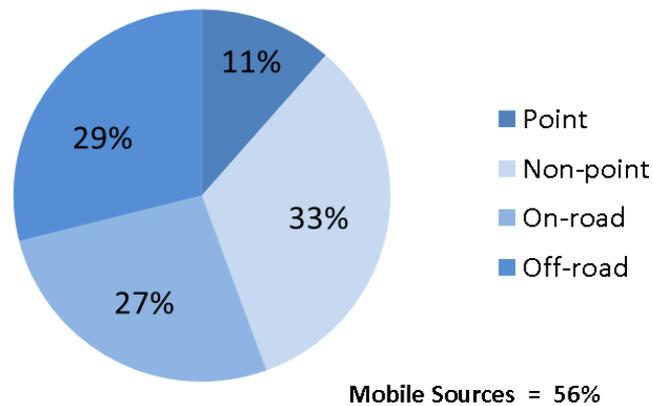
2008 CO Emissions



2008 NOx Emissions



2008 VOC Emissions



Delaware's Air is Unhealthy to Breathe

Last summer Delaware's air was unhealthy to breathe throughout the state.

- 39 exceedances of the ozone NAAQS were recorded
- On June 29th a rural Delaware monitor recorded concentrations of 105 ppb -- more than 25% above the NAAQS

Delaware 2012 Ozone Exceedance Summary Table

Exceedances of 8-hour Ozone NAAQS (0.075 ppm)

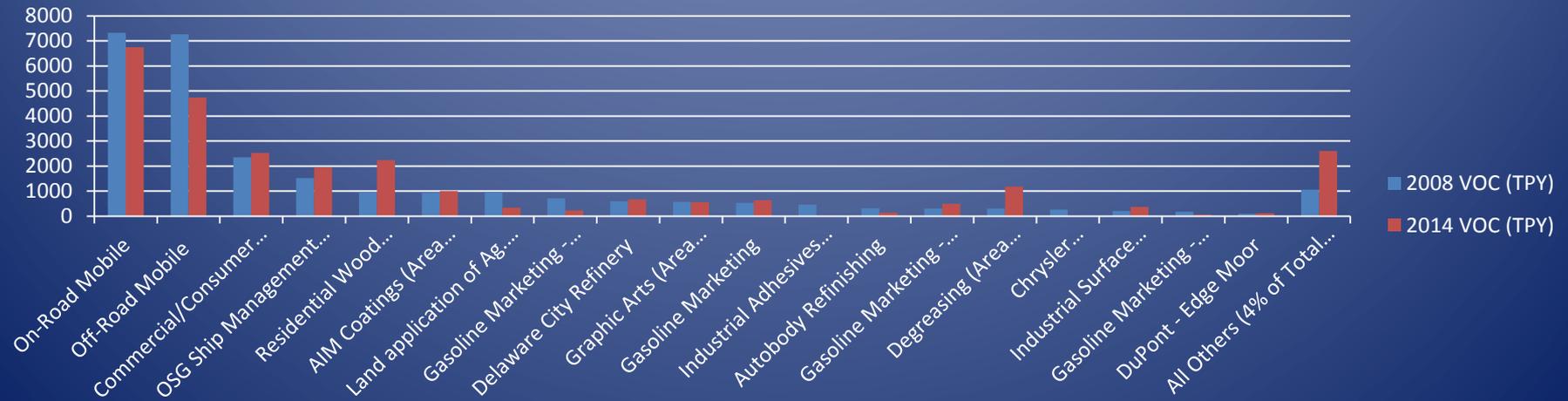
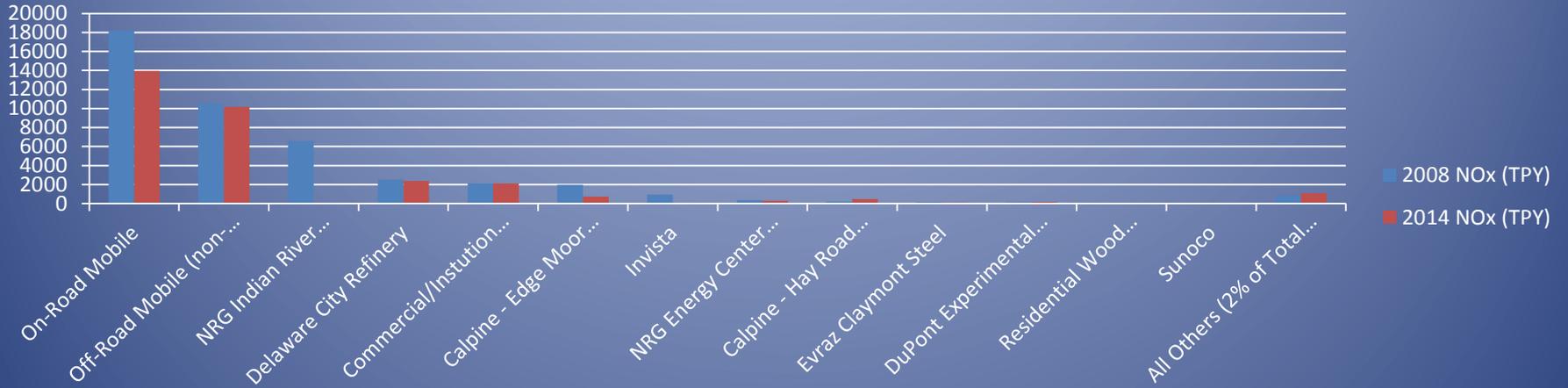
Note: Data have not been validated.

Date	Brandywine	Bellefonte	MLK	Summit Bridge (Lums)	Felton (Killens)	Seaford	Lewes
May 12		0.079					
June 9					0.076		
June 10		0.078	0.080	0.082	0.088	0.083	***
June 20			0.076	0.079	0.077	0.080	0.077
June 21	0.078	0.077	0.079	0.082	0.085	0.090	0.085
June 28		0.076	0.079	0.082	0.085	0.077	0.080
June 29	0.082	0.080	0.085	0.086	0.098	0.105	0.097
June 30					0.085	0.081	0.085
July 1					0.087	0.084	0.082
July 4			0.076		0.084	0.082	0.080
July 5					0.080	0.086	0.086
July 7	0.077	0.080	0.080	0.080	0.089	0.084	0.086
July 8						0.076	
July 17	0.079		0.077	0.076	0.082	0.081	
July 24					0.076		
July 26	0.076	0.077	0.078				
August 22			0.080				
August 23	0.076		0.078		0.076		
August 24	0.080	0.077	0.086				

*** No data available

Total number of days exceeding the 8-hour NAAQS:
 New Castle County = 13
 Kent County = 14
 Sussex County = 12
 Total Days in Delaware = 19

There is Not Much Left that Delaware Can Do



DAQ Purpose

1. Help DE meet air quality standards
2. Ensure Program Purpose
3. Preserve Consumer Choice

The Program

- Advanced Clean Cars Program
 - coordinated package of requirements
 - MY 2015 to 2025 for LEV III standards
 - MY 2017-2025 for GHG standards
 - MY 2018 – Beyond for ZEV standards

Program Purpose

- The proposed amendments are designed to preserve consumer choice while ensuring the development of a full range of environmentally superior cars and trucks.
- Vehicles will continue to deliver the performance, utility, and safety consumers have come to expect.

Objectives

- Reduce emissions to improve air quality
- By MY 2025, new vehicles will emit 75% less smog-forming pollution than the average new car sold today and GHG emissions will be reduced by 34% annually for DE
- For MY 2017 to 2025 vehicles, the proposed GHG standards will reduce CO₂ emissions by approximately 4.5% per year for the combined fleet.

Objectives

- MY 2009 – MY 2017 extends the travel provision to count towards ZEV
- MY 2018 and beyond ZEV program simplifies the regulation and pushes technology to higher volume production in order to achieve cost reductions.
- Compliance can flexibly be achieved by creating regional pools to meet program requirements.

Requirements

- Advanced emission control technology standards:
 - a fleet average SULEV level for new vehicles by MY 2022
 - increased stringency and restructuring of the NMOG and NO_x standards
 - increased stringency for PM standards,

Requirements

- increased durability requirements for emission control systems,
- expanded coverage of more restrictive evaporative control requirements,
- new requirements for supplemental test procedure emission testing, and
- new federal fuel economy and environmental labeling requirements.

Requirements

- Section 177 of the CAA requires that if a state adopts the California motor vehicle emission standards, the standards must be “identical to the California standards” for which California received a waiver of preemption from implementing the federal motor vehicle emission standards from EPA.
- The proposed Delaware vehicle emission standards will incorporate by reference the applicable sections within Title 13 of the CCR and reflect the last date of adoption .

Requirements

- Exhaust Emission Standards and Test Procedures - 2015 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles.
- Greenhouse Gas Exhaust Emission Standards and Test Procedures - 2017 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles.

Requirements

- Zero-Emission Vehicle Standards for 2009-2017 Model Passenger Cars, Light-duty Trucks, and Medium-duty Vehicles, including California Exhaust Emission Standards and Test Procedures for 2009 -2017 Model Zero-emission Vehicles Hybrid Electric Vehicles, in the Passenger Car, Light-duty Truck and Medium-duty Vehicle Classes.

Requirements

- Zero-Emission Vehicle Standards for 2018 and Subsequent Model Passenger Cars, Light-duty Trucks, and Medium-duty Vehicles, including California Exhaust Emission Standards and Test Procedures for 2018 and Subsequent Model Zero-emission Vehicles and Hybrid Electric Vehicles, in the Passenger Car, Light-duty Truck and Medium-duty Vehicle Classes.

Next Steps

- Another workgroup meeting? If so, 4/13
- Public workshop – 6/13
- Public hearing – 7/13
- Final regulation – 10/13

More Information

- All information/materials regarding Reg . 1140 can be found at:

<http://www.dnrec.delaware.gov/whs/awm/Info/Regs/Pages/1140LEV.aspx>