

Ozone Attainment: Reformulated Gas

Louisville Metro Air Pollution Control District
February 11, 2020



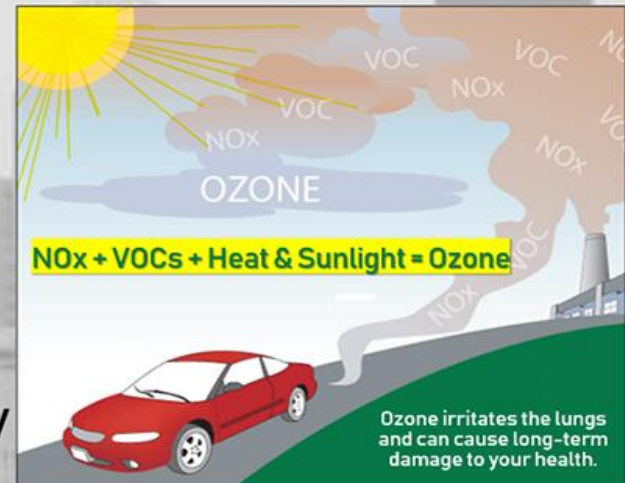
Louisville's Current NAAQS Status

Pollutant	Standard	Averaging Time	Attainment Status
Carbon Monoxide	9 ppm	8-hour	Attainment
	35 ppm	1-hour	Attainment
Lead	0.15 $\mu\text{g}/\text{m}^3$	Rolling 3-month Average	Attainment
Nitrogen Dioxide	53 ppb	Annual Average	Attainment
	100 ppb	1-hour	Attainment
Particulate Matter (PM10)	150 $\mu\text{g}/\text{m}^3$	24-hour	Attainment
Particulate Matter (PM2.5)	12.0 $\mu\text{g}/\text{m}^3$	Annual Average	Attainment
	35 $\mu\text{g}/\text{m}^3$	24-hour	Attainment
Ozone	0.070 ppm	8-hour	Nonattainment
Sulfur Dioxide	75 ppb	1-hour	Partial County Nonattainment

Louisville's Ozone NAAQS Status

OZONE LOUISVILLE'S PERSISTENT POLLUTANT

Although ozone pollution has declined over the years, it's still a big health problem, especially for people with asthma, COPD, and other ailments. That's why we must work together as a community to reduce ozone, because everyone deserves safe and clean air to breathe.

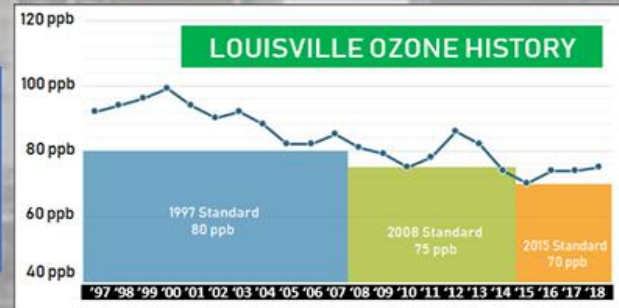


VOC SOURCES

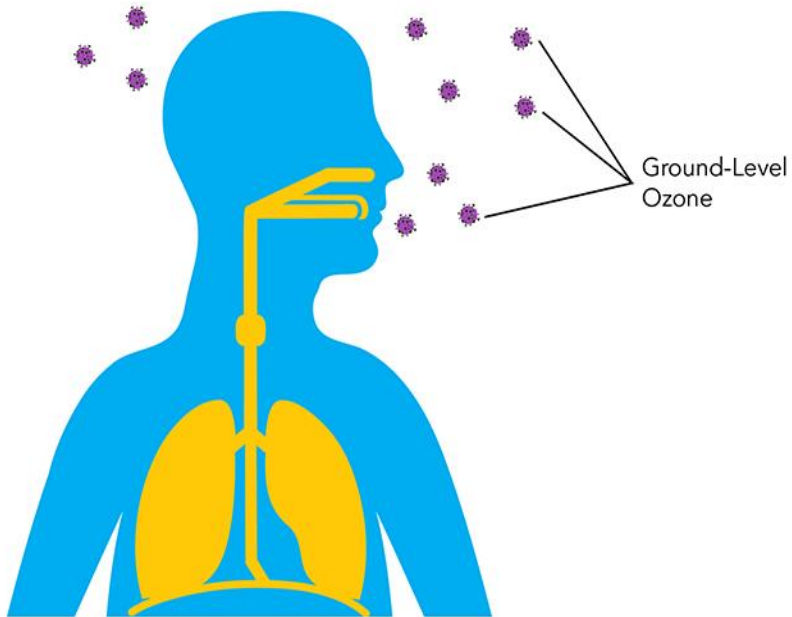


NOx SOURCES

Ozone is the combination of air pollutants known as volatile organic compounds (VOCs) and oxides of nitrogen (NOx). They are emitted from commercial activity and vehicle tailpipes. The charts show the local breakdown of VOC and NOx sources.



Health Effects



IF YOU ARE ACTIVE AND EXERCISE OUTDOORS... ↓

OZONE CAN CAUSE YOU BREATHING DIFFICULTY AND EYE IRRITATION.

IF YOU ARE YOUNG OR ELDERLY... ↓

OZONE CAN CAUSE REDUCED RESISTANCE TO LUNG INFECTIONS AND COLDS.

IF YOU ARE ASTHMATIC... ↓

OZONE CAN TRIGGER ATTACKS.

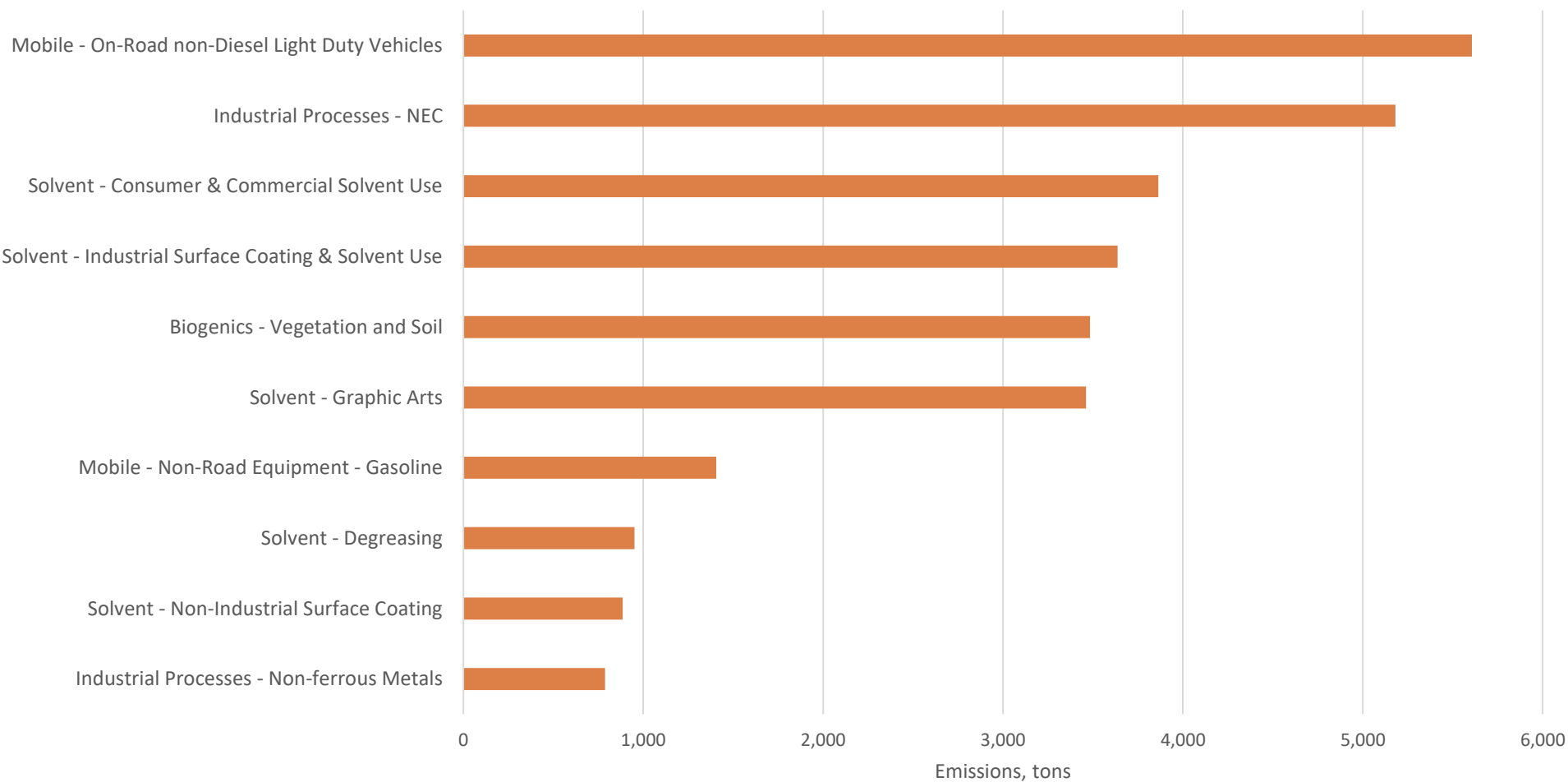
IF YOU SUFFER FROM RESPIRATORY ILLNESS... ↓

OZONE CAN CAUSE WORSENERD SYMPTOMS OF COPD (CHRONIC OBSTRUCTIVE PULMONARY DISEASE) OR CHRONIC BRONCHITIS

<https://simplestepsbetterair.org/get-smart-about-ozone/>

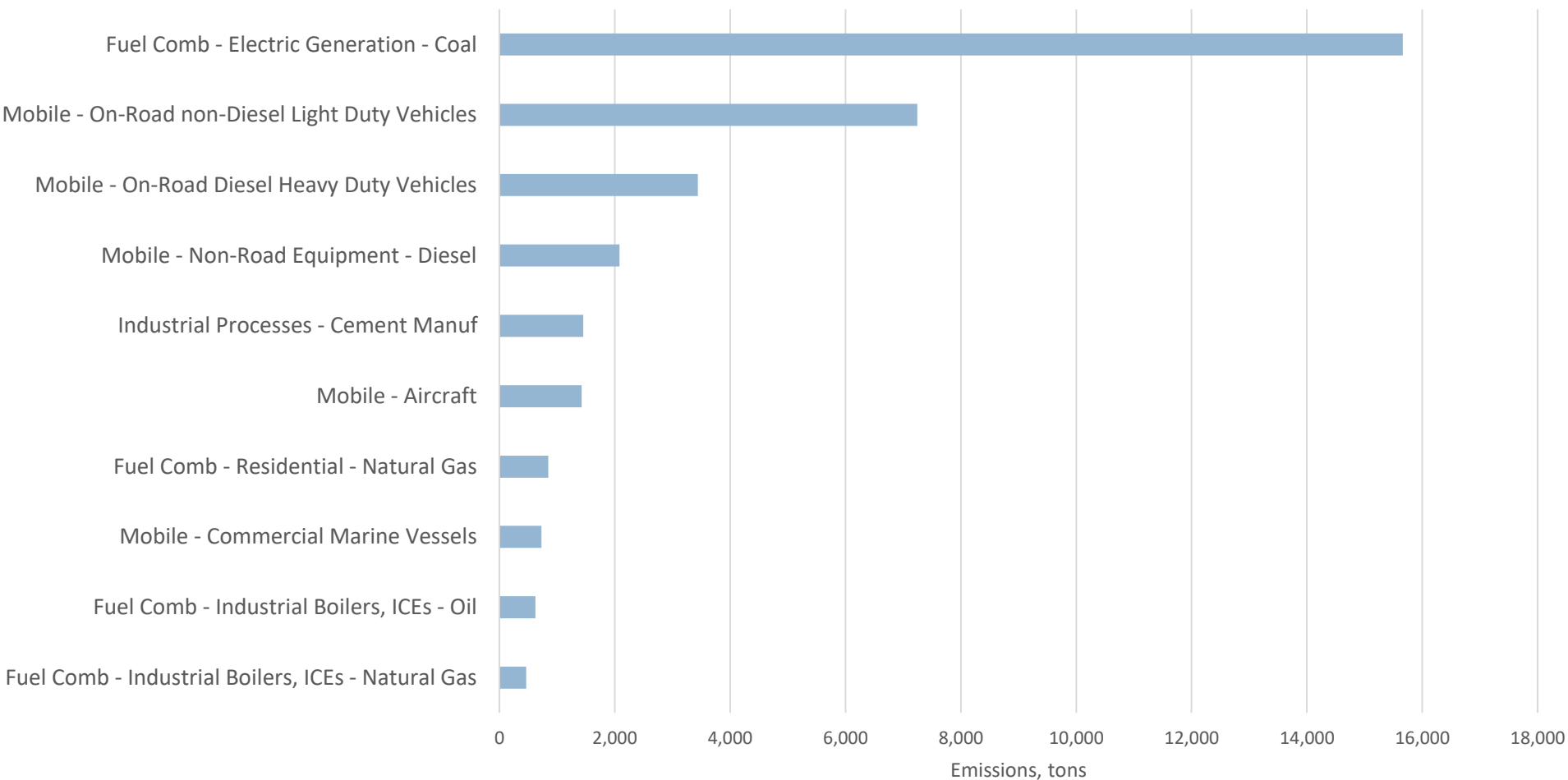
Emissions by Sector

Volatile Organic Compounds – Jefferson County top 10

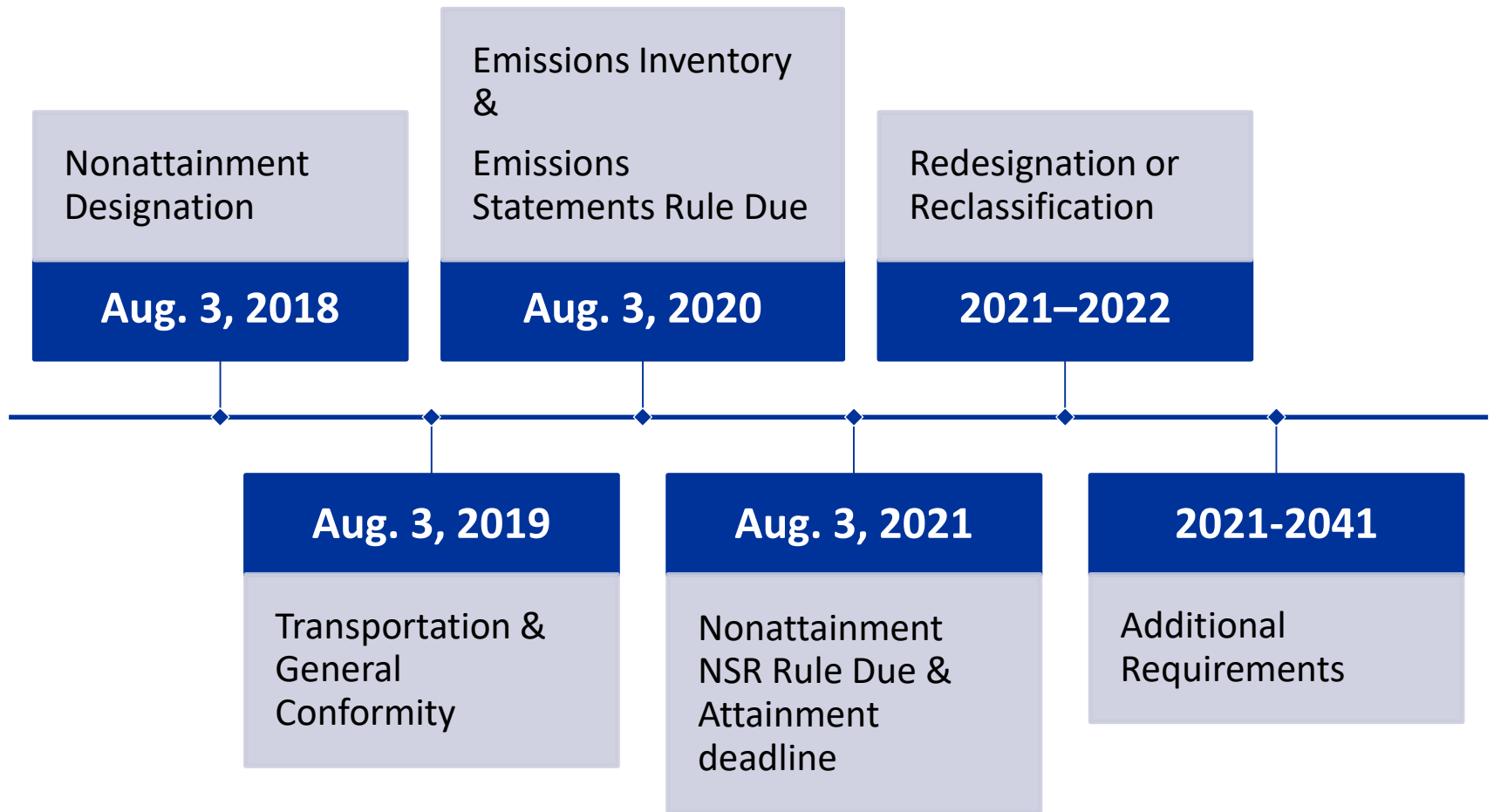


Emissions by Sector

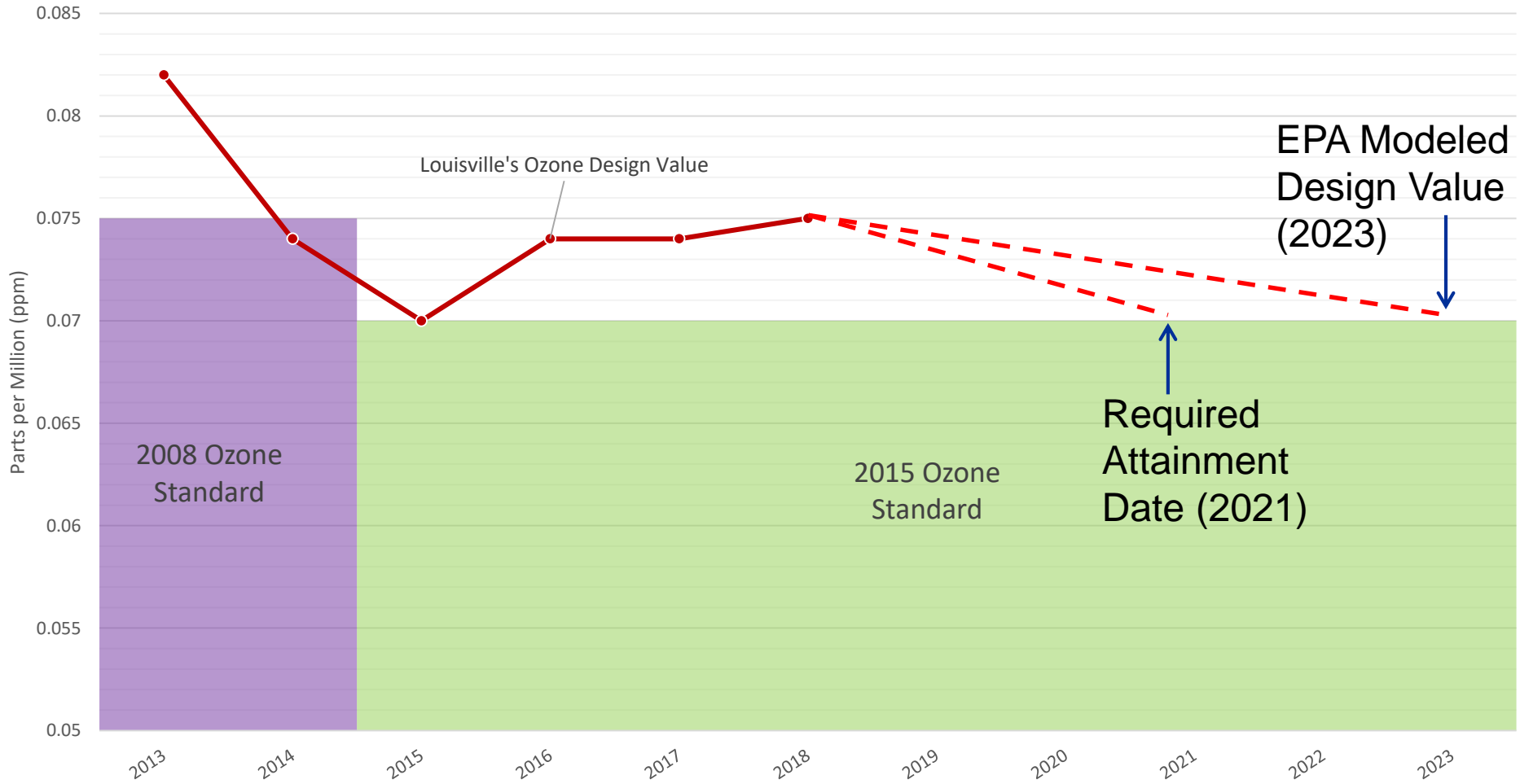
Nitrogen Oxides – Jefferson County top 10



SIP Planning - Marginal



Ozone Projections



SIP Planning - Moderate

- Reasonable Further Progress (RFP)
- Reasonably Available Control Technology (RACT)
- Motor Vehicle Inspection & Maintenance (I&M – i.e., VET)
- NSR offset requirement increases 50% (1.15 to 1)

Thank you!



Keith H. Talley, Sr.
Director

Louisville Metro Air Pollution
Control District

701 W. Ormsby Ave.
Ste. 303

Louisville, KY 40203
(502) 574-6000

www.louisvilleky.gov/APCD