

# Annual Report of Air Emissions from PCAC Plants

*Short Presentation posted on Members page of [www.pasadenacac.org](http://www.pasadenacac.org)*

Jenna Timtiman, Environmental Engineer with Sekisui, presented the Annual Report of Air Emissions from PCAC Plants. (PCAC plants rotate serving as the presenter.) The annual report derives its data from two annual inventories: The Air Emissions Inventory (EI), which plants submit to the TCEQ, and the Toxics Release Inventory (TRI), which plants submit to the EPA. Highlights of the 2023 data on emissions follow on Page 2. Overall, there was a 2% increase in total TCEQ Air Emissions Inventory (EI) and a 3% decrease in total EPA Toxics Release Inventory (TRI) Releases to Air from 2022 to 2023. The data show the least pounds of TRI Releases to Air from PCAC plants ever. A variety of reasons reflect the mixture of increases and decreases from 2022 to 2023. The report compared Nitrogen Oxides (NO<sub>x</sub>) and Volatile Organic Compounds VOC emissions at PCAC plants to those reported in the Air Emissions Inventory in Harris County and in Texas overall. For this comparison, data from 2022 are the most current. In 2022, 0.6% of the state's NO<sub>x</sub> emissions came from PCAC plants, and 8% of the county's NO<sub>x</sub> emissions did so. In 2022, 3% of the state's VOC emissions came from PCAC plants, and 16% of the county's VOC emissions inventory did so.

*PCAC 10-2024 Annual Emissions Highlights follow.*

**PASADENA CITIZENS' ADVISORY COUNCIL**  
**HIGHLIGHTS OF 2023 DATA in October 2024 EMISSIONS REPORT**

<b>Full Emissions Inventory by Cause</b>	<b>Pounds in 2023</b>	<b>Compared to 2022</b>
Routine Permitted Emissions	11,443,598	<b>+3%</b>
Maintenance Emissions	108,615	<b>-23%</b>
Upset Emissions	86,152	<b>-40%</b>
<b>Emissions Inventory of Selected Criteria Air Pollutants</b>	<b>Pounds in 2023</b>	<b>Compared to 2022</b>
NOx – nitrogen oxides	2,546,441	<b>-1%</b>
All VOCs – volatile organic compounds	4,812,565	<b>-0.04%</b>
— Portion of pounds that are highly reactive (HRVOCs)	293,455	<b>+22%</b>
SOx – sulfur oxides	993,188	<b>+8%</b>
CO – carbon monoxide	2,560,148	<b>+7%</b>
TSP – total suspended particulates	648,891	<b>-3%</b>
PM 2.5 - TSPs less than 2.5 micrometers in diameter	590,178	<b>+1%</b>
<b>Toxics Release Inventory (TRI)</b>	<b>Pounds in 2023</b>	<b>Compared to 2022</b>
Total releases to the air	662,115	<b>-3%</b>
Portion from fugitive air sources	235,979	<b>-5%</b>
Portion from point air sources	426,136	<b>-1%</b>
TRI total air releases from 1995 – 2023	4,732,013 in 1995	662,115 lbs. in 2023 <b>-86%</b>
	<b>In 2024</b>	<b>The year before...</b>
<b>Number of Pasadena CAC Plants *</b>	18	18
Plants reporting TRI	13	13
Plants reporting air emissions inventory	15	15
Plants reporting Highly Reactive VOCs	9	9
<p><i>*PCAC has 18 plant members in October 2024.  Based on reports submitted by 17 of the 18 PCAC plants. None due from Next Wave Energy Partners because they were not yet operating in 2023.</i></p>		

Green = decreased from 2022 to 2023 - Red = increased from 2022 to 2023