

**Routine Emissions  
APS Operations**

		2002	2001	2000	1999	1998
<b>Greenhouse Gases</b>						
<b>CO<sub>2</sub></b>	Total (tons)	24,369,548	27,378,942	25,594,386	24,565,372	23,600,000
	Normalized (lb./MWh)	877	984	928	908	897
	Industry average (lb./MWh)*	N/A	1,881	1,666	1,486	1,484
<b>Key Air Pollutants</b>						
<b>VOCs</b>	Total (tons)	400	653	585	483	453
	Normalized (lb./MWh)	0.01	0.02	0.02	0.02	0.02
<b>NO<sub>x</sub></b>	Total (tons)	55,710	66,339	64,405	61,008	59,207
	Normalized (lb./MWh)	2.00	2.38	2.34	2.26	2.24
	Industry average (lb./MWh)*	N/A	3.71	3.52	3.51	3.87
<b>Particulate Matter (PM10)</b>	Total (tons)	2,921	3,388	3,173	3,022	2,888
	Normalized (lb./MWh)	0.10	0.12	0.12	0.11	0.11
	Industry average (lb./MWh)*	N/A	0.50	0.45	0.16	0.14
<b>SO<sub>x</sub></b>	Total (tons)	53,624	61,151	56,421	61,599	57,604
	Normalized (lb./MWh)	1.93	2.19	2.05	2.28	2.18
	Industry average (lb./MWh)*	N/A	8.22	7.55	7.76	8.35
<b>Mercury</b>	Total (tons)	0.45	0.43	0.42	0.41	0.40
	Normalized (lb./GWh)	0.01	0.01	0.02	0.02	0.01
<b>Carbon Monoxide</b>	Total (tons)	3,332	5,042	4,564	3,957	3,714
	Normalized (lb./MWh)	0.12	0.18	0.17	0.15	0.14
<b>Lead</b>	Total (tons)	0.26	0.29	0.28	0.27	0.26
	Normalized (lb./GWh)	0.01	0.01	0.01	0.01	0.0099

\* The Industry and APS emissions in pounds per megawatt-hour include nuclear generation. The industry average emission data for SO<sub>x</sub>, NO<sub>x</sub>, CO, PM10, and VOC for the period between 1998-2001 was obtained from emission trends summaries located on EPA Emission Inventory web site at: [www.epa.gov/ttn/chief/trends/index.html](http://www.epa.gov/ttn/chief/trends/index.html). The CO<sub>2</sub> emission data was obtained from "Emissions of Greenhouse Gases in the United States, 2001," DOE/EIA-0573, Dec. 2002. The report can be downloaded at: <http://www.eia.doe.gov/oiaf/1605/ggrpt/index.html>. The annual industry generation data was obtained from Electric Power Monthly, January 2003, DOE/EIA-0226 (2003/01).

We track emissions in both the plants we operate and the plants in which we hold ownership. We operate the Palo Verde, Four Corners, Cholla, West Phoenix, Ocotillo, Childs-Irving, Fairview, Yucca and Saguaro power plants.