

Air Quality & Pollution Control Webinar

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US Air Quality Markets (\$ billion)

Segment	1997 Market Size	2007 Market Size	2017 Market Size	2018 Market Size	2020 Market Size	AAGR 18-20
APC Equipment*	3.5	4.3	5.4	5.2	4.8	-4%
Consulting & Engineering	1.3	1.9	2.6	2.6	2.7	2%
Instruments & Info.Systems	0.5	1.2	1.8	1.9	2.1	6%
Analytical Lab Svcs	0.1	0.1	0.1	0.1	0.1	3%
Mobile Source APC	12.8	14.0	12.0	12.1	12.4	1%
Vehicle Emissions Testing	1.4	1.5	1.5	1.5	1.4	-2%
Indoor Air Quality	0.5	0.6	0.7	0.7	0.7	2%
Total Air Quality Market	20.0	23.6	24.1	24.1	24.2	0.3%
Growth	2.0%	0.1%	3.5%	0.2%	0.4%	

Source: Environmental Business International Inc. (San Diego, Calif.) *Stationary source air pollution control equipment

Rating of Air Quality & APC Market Drivers by Impact on Client Spending in 2019

	Most influential	Strong	Significant	Moderate	Minimal	Negligible
State Regs & Enforcement	27%	43%	23%	7%	0%	0%
Federal Regs & Enforcement	13%	40%	17%	20%	7%	3%
Technology requirements: RACT, BACT and LAER	15%	19%	38%	23%	4%	0%
Regional Regs & Enforcement	14%	39%	11%	21%	11%	4%
New Source Performance Standards or NSR	15%	19%	33%	26%	4%	4%
National Ambient Air Quality Standards	18%	18%	25%	29%	11%	0%
Local/City Regs & Enforcement	18%	14%	21%	32%	11%	4%
Public Emissions Reporting	4%	19%	33%	33%	4%	7%
Corporate Environmental Standards	7%	14%	31%	28%	17%	3%
Occupational Safety and Health Administration Indoor Standards	11%	11%	26%	22%	22%	7%
Industry Association Standards	0%	8%	27%	27%	27%	12%

Source: 2019 EBJ Survey of Air Quality Services. Question was: Please rate the following market drivers on their impact on spending on air quality / pollution control by your clients in 2019.

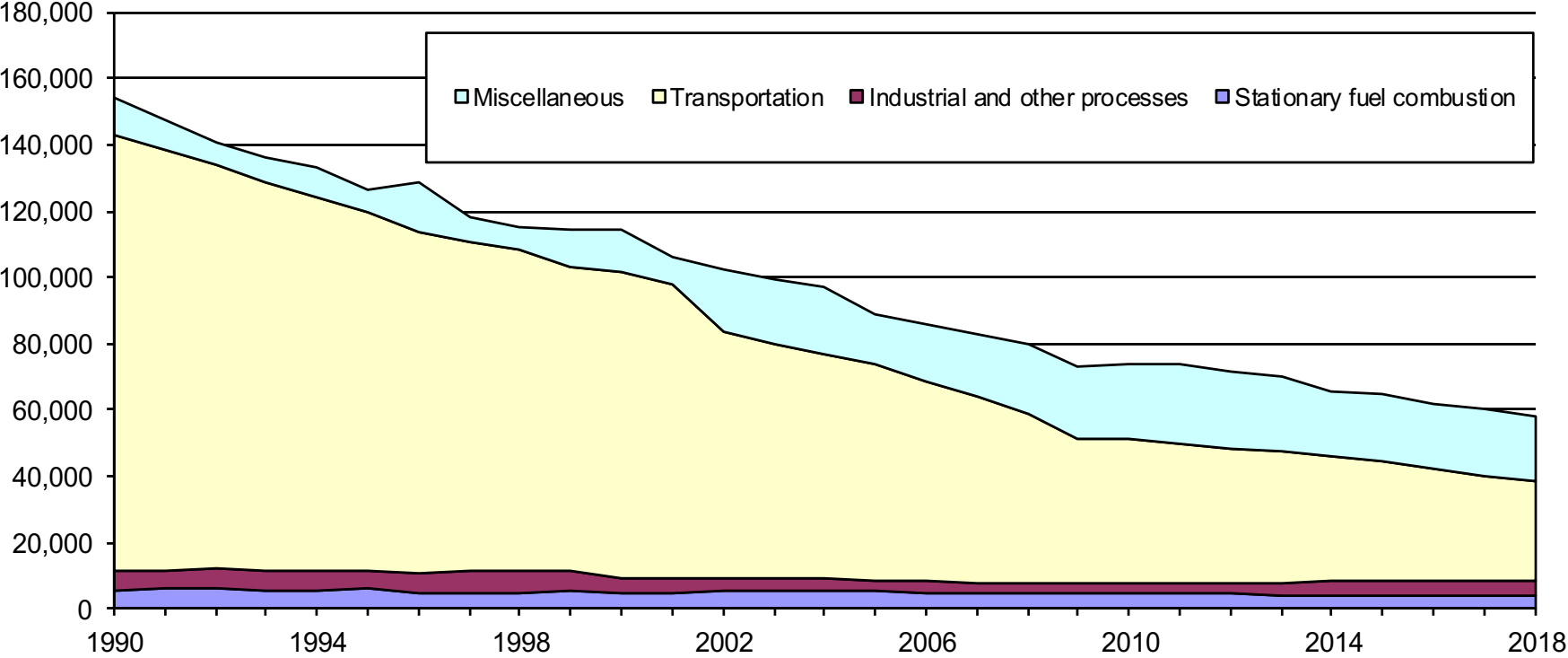


EPA Data on 'Percent Change in Air Quality'

	1980 vs 2018	1990 vs 2018	2000 vs 2018	2010 vs 2018
Carbon Monoxide	-83	-74	-59	-15
Lead	-99	-97	-93	-82
Nitrogen Dioxide (annual)	-65	-57	-49	-22
Nitrogen Dioxide (1-hour)	-61	-50	-35	-15
Ozone (8-hour)	-31	-21	-16	-4
PM10 (24-hour)	---	-26	-31	-2
PM2.5 (annual)	---	---	-39	-16
PM2.5 (24-hour)	---	---	-34	-3
Sulfur Dioxide (1-hour)	-91	-89	-80	-68

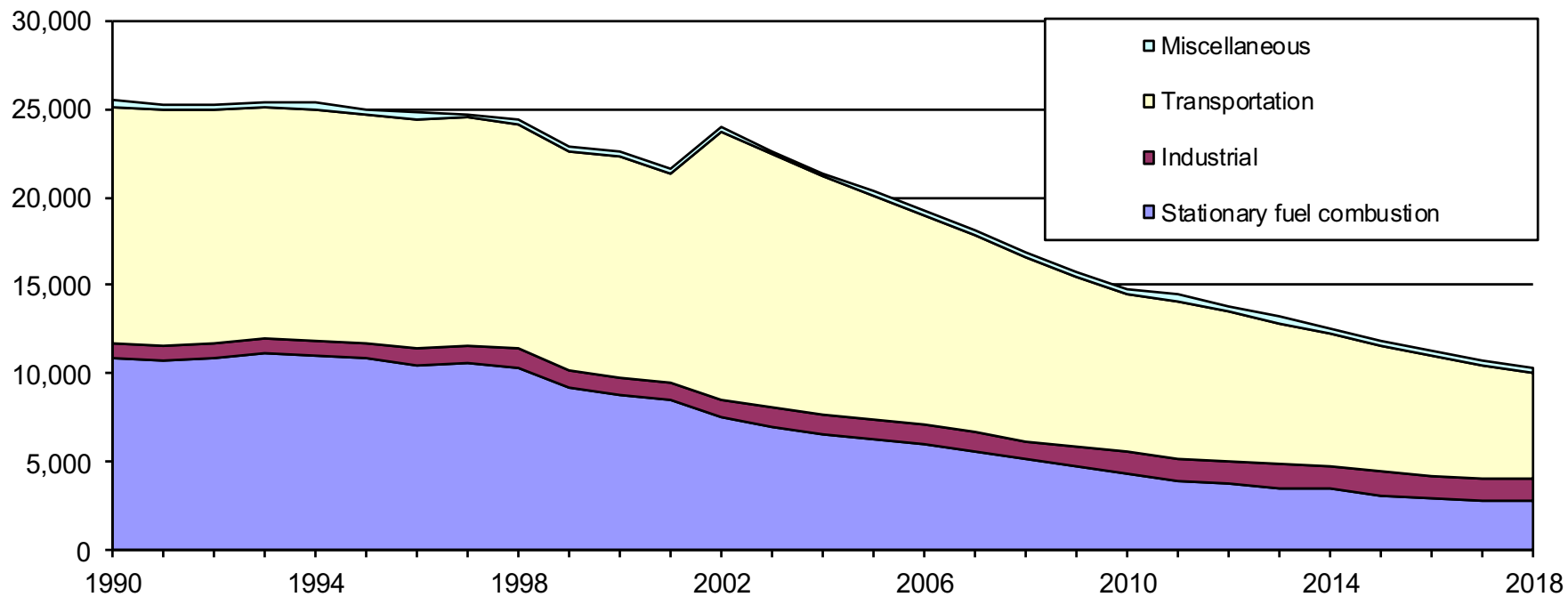
Source: US EPA National Summary of Air Quality. EPA creates air quality trends using measurements from monitors located across the country.

Carbon Monoxide (CO): USA Emissions (thousands of tons)



Source: U.S. EPA National Emissions Inventory (NEI)

Nitrogen Oxide (NO_x): USA Emissions (thousands of tons)



Source: U.S. EPA National Emissions Inventory (NEI)