

NO_x Control Time Line

LA smog contains Ozone **Haagen-Smit (1953)**



NO_x is irrelevant (**Junge, 1962**)



NO_x is involved in ozone chemistry. (**Crutzen, 1970**)



NO_x is a key for ozone (**Fishman et al., 1978**)



Three-way catalysts for VOC's & NO_x (**EPA, 1981**)



Effective control of NO emissions from cars (**1990**)



NO_x inventories ±300% (**NRC, 1991**)



Most areas NO_x limited (**Chameides et al., 1992**)



US NO_x emissions peak out (**1994**)



Reductions in power plant NO_x emissions (**EPA, 1999-2004**)