

## Colombia Fossil Fuel Policies and Their Impact on Urban Air Quality

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**Abstract :** Colombia Urban Areas shows a decreasing of their air quality, no matter the actions developed by the Government facing the mitigation of pressure factors related with air pollution. Examples of these actions were the fossil fuel quality improvement policies (FFQI). This study evaluated the impact of three FFQI in the air quality of Bogotá during the period 1990 - 2006: The phase-out of lead in the gasoline; the sulfur reduction in diesel oil consumed in Bogotá and the oxygenation of gasoline through the addition of ethanol. The results indicate that only the policy of phase-out of lead in gasoline has been effective, showing dropping of lead oxides concentration in the air. Some stakeholders believe that the FFQI evaluated in the study are environmental policies, but no one of these policies has been supported by an environmental impact assessment that shows specific benefits in air quality. The research includes some fuel policy elements to achieve positive impact on the air quality in the urban centers of Colombia.

**Keywords :** policy assessment, fuel quality, urban air quality, air quality management

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