

AN INTEGRATED SYSTEM FOR THE ASSESSMENT OF AIR POLLUTION CONTROL STRATEGIES IN URBAN AREAS APPLICATION TO ATHENS

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ABSTRACT

An integrated system for the assessment of emission control measures that are put forward in order to reduce air pollution levels in urban areas is presented and applied to the Greater Athens area. In contrast to the majority of the currently used assessment tools, this system allows for the evaluation of any air pollution control measure in terms of its combined impact on air quality and social welfare, by correlating the environmental and economic aspects of alternative air pollution abatement solutions. Based on the multi-pollutant, multi-effect concept, the system is an integrated tool for the objective assessment of the most cost-effective packages of measures, the latter being allocated according to the particular features and needs of the areas examined.