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DEVELOPMENT OF A TOOL FOR INDUSTRIAL ATMOSPHERIC EMISSION MANAGEMENT IN THE APULIA REGION

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Abstract

Atmospheric emission inventories are useful tools to support informed decision making in air quality management. In the framework of Apulia Region emission inventory, a tool for the industrial atmospheric emission management called Territorial Emissions Cadastre (CET) was developed. CET is a Web-based system able to store all data related to the industrial plants and to perform spatial queries; its components are used for synchronizing, exporting and querying the underlined database. CET also enables access to information that is useful to support air quality monitoring experts in their decision-making process. An innovative feature of CET is CETGE. It allows the users to visualize the industrial plants and the associated emissions in Google Earth® which provides an effective tool to display the most relevant industrial emission sources on a Regional area view. CETGE can be used by the stakeholders to evaluate and present alternative solutions for areas characterized by high impact emission sources.

Key words: cadastre, CORINAIR, Google Earth, industrial emissions, inventory database

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