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BAT licensing for pollution reduction: Italian experiences

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This paper describes new issues and opportunities in terms of pollution prevention, abatement and reduction from IED/IPPC activities by the adoption and implementation of IED/IPPC permits released in Italy at national level following the Italian Decree n. 46 issued of March 4th, 2014, adopting European Union Commission 'Industrial Emissions Directive' (IED) issued on 2010 to require the adoption of new regulations for IPPC permits. IED/IPPC operational permits releases started hundreds of different scenarios of best available techniques (BAT) implementation in industrial sites, where environmental pollution is now under a planned control, in order to perform a proper and adequate monitoring and data reporting activities with, if needed, also periodic environmental inspections. About 50,000 installations undertaking such industrial activities, as listed in Annex I of the IED, are required to operate in accordance with a permit (granted by Authorities of EU Member States), by means of selected prescriptions and proper provisions. Particularly, new applications of best available techniques (BAT) are available in order to achieve a high level of protection of environmental matrices, as reducing pollutants industrial emissions, in term of pollutants concentrations reduction at the sources of emission and by means of new advanced monitoring and control activities. In this paper, a review of the efficiency and effectiveness of environmental inspections, performed in Italy by ISPRA, shows that pollution reduction is achievable by means of direct applications of BAT conclusions-as now currently available – supplying valuable pollutants emissions limits, that represent both the respect of law limits and more effective level of environmental protection. Some data, moreover, are presented coming from more ten years of applications of these methodologies and also some results coming from some selected Case Studies are hereby represented by official diagrams and graphics.

Biography

Lorenzo Maiorino is a Senior Research Analyst/Chemical Engineer with 20 years of professional experience in systems R&D and design; technical and regulatory evaluation of complex environmental projects; conducting accident and incident investigations and environmental inspections; developing and implementing energy efficiency projects and sustainable solutions within national research agencies and transnational corporations. From the start, his career was focused on the development of skills and methodological tools appropriate to the study of environment, energy, waste and sustainability models.

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