



K-BREF(Korean BAT reference document) development : BAT and BAT-AELs for large combustion plants and waste incinerators in Korea.

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Since the initial environmental policy namely “Regulation on assigning license for environmental pollutant emission facilities” was introduced in 1971, the previous environmental policy that assign licenses on emission facilities of each pollutant has been implementing in Korea. From this, economic standard and environmental quality of Korea are recognized as level of developed countries, even though various development activities for industrialization.

However, amount of pollutant, emission route and emission source are increasing with development of various industries, and citizens recognition for environment have been changed as well. Thus, ministry of environment of Korea needs systematic policy based on scientific grounds for conversion of paradigm. For this, ministry of environment was introduced new policy namely “integrated pollution prevention and control(IPPC)”, and it will be implemented from 2017 in Korea.

IPPC is established for considering environment, economic and efficiency: 10 licenses on each pollutant emission will be integrated to one license, and it can be expected simplification for business licensing process. As well, this policy can be upgraded and processed while considering characteristics on location and industry types, in the future.

However, to conduct this system harmoniously, policy demanders have to apply integrated control system to their facilities. Especially, the first applied industries by IPPC are two industries, such as large combustion plants for power generation and waste incineration facilities. Therefore, ministry of environment has to publish technical guideline books firstly for those industries, and they were named to “BAT reference document(BREF)”. In this study, essential information for BREFs publishment, that is including emission levels, best available technique(BAT) and so on was investigated. In addition, the BAT-associated emission levels (BAT-AELs) of each industry were set using emission data obtained from realtime-monitoring system.