Noble odor control technologies for various industries

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Concerning selection of odor control facilities, it is necessary to consider removal technologies according to odorous pollutants. Most of odorous pollutants are effectively removed with adsorption, incineration, but the efficiencies of other methods are showing much variations with odorous materials.

Although activated carbons is often used for its low initial cost, it requires more operating cost with periodical exchange of carbon. Fuels are required in the incineration, and more fuels are required if the concentrations of flue gases are low. The initial cost of this method is high, but it is used in many chemical plants because of its easy handling and management.

As ozonation, photocatalyst, plasma are yet tested in laboratories and fields, they are not fully demonstrated. Therefore it is necessary to select commercialized control facilities when odorous pollutants should be removed.

When odor control facilities are equipped to production process, practical condition of this production process should be considered. Untreated dust from bagfilter and scrubbers should be treated simultaneously, and additionally pretreatment facilities for tar and moisture should be considered together.