Identification of Cleaner Production Improvement Opportunities

Description: Regardless of its size or nature, every industry generates waste and is responsible for implementing the practices of pollution prevention and waste minimization in its day-to-day operations. Whether it's dirty water or toxic wastes, industrial pollution is all the same in one way: it reduces a business's profitability. Identification of Cleaner Production Improvement Opportunities urges environmental, health, and safety department managers, industrial environmental consultants, and personnel across all chemical engineering industries to employ a forward-thinking and tested technology of process improvements that will reduce waste generation, reduce the resources requirements to manufacture a product, and, most important to the life of a business, increase revenues.

This new publication consists of the following five sections:

- Section I: The relationships among cleaner production, waste, cleaner production analyses, and their business values
- Section II: How to develop a cleaner production program
- Section III: The data requirements and data analyses for the opportunity identification step
- Section IV: The opportunity identification step
- Section V: How to assess and rank the best ideas

Industry expert and chair of AIChE's Environmental Division, Kenneth Mulholland introduces methodology in this manual that has been used to identify process improvement opportunities for more than fifty processes, including pharmaceutical intermediates, elastomer monomers and polymers, polyester intermediates and polymers, batch processes such as agricultural products and paints, chlorofluoro-hydrocarbon and chlorocarbon processes, and specialty chemicals and waste water treatment facilities. With no product changes or new technology necessary, these process improvements have produced a 200 percent internal rate of return and reduced waste generation by 40 percent to 50 percent.

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