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“INTEGRATING CLEANER PRODUCTION INTO SUSTAINABILITY STRATEGIES”

Alternatives Reuse for Waste of Treatment Plants Water and Sewage: The Brazilian Situation

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Abstract

The existence of an environmental sanitation system that meets the population for public water supply and sewage is so relevant for basic needs. This infrastructure prevents water borne diseases and improves life's quality. However, the treatment process of water and out puts produces solid waste. Therefore, this activity has brought concerns about the proper disposal of these wastes produced by Treatment Stations Water -ETA, and Sewage-EET. The waste accumulated during the treatment process has as destination the aquatic system and soils of land near the stations. This is deposited in nature form, without any pretreatment, which causes large environmental damage by insertion of chemical and biological contaminants in these environments, contained in the waste disposed. So-called sludge ETA and ETE possess highly toxic organic load to the environment. The adoption of alternative measures for proper disposal is an urgent issue. This approach brings work on reuse of material from the procedures operating of stations in some segments identified as units of utilization of these wastes.

Keywords: Sanitation. Solid waste. Reuse.

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