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WATER MANAGEMENT IN AN INDUSTRY

by

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Project Report

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S U M M A R Y

This project deals with water management in an industry. First of all the whole industry is divided into sections, in Chapter 1 and the processes executed in each section are briefly described.

In Chapter 2 water service for the industry is examined. This includes water treatment and water supply for various purposes. In this Chapter the sewage system of the industry is also examined, i.e. where the discharged water and effluent from the various processes is discharged and where it terminates.

The quantities of water consumed by the industry in general, and that consumed by each section and for the main processes executed in this section, are given in Chapter 3.

In Chapter 4 the areas for possible water conservation are identified. These are mainly processes throughout the industry where water or steam (great quantities) is discharged in the sewers while it could be easily used for some purpose.

After examination of the areas for possible water conservation, water conservation strategies are proposed in Chapter 5. The necessary equipment for the implementation of these methods is also recorded.

In Chapter 6 the main system (Wastewater Treatment Plant) for water conservation is presented. Also a background on Sewage (wastewater) Treatment Aspects is made.

Finally in Chapter 7 an economic feasibility study is presented, for two of the methods proposed for water conservation in order to observe if is feasible the practical implementation of these methods.

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