Abstract

Water is essential for life as well as for the economy. Nowadays, to solve and manage the water scarcity is becoming challenging. With the reduction of water resources, the demand for quality water is increasing day by day. Water utilities are important to provide good quality water, but due to outdated or lack of sufficient infrastructure it becomes difficult. Along with this, water get wasted due to metering errors, leaks, pipe bursts, and becomes polluted because of industrial waste. To manage all these issues, water utilities have to come up with smart water management solutions and techniques. This paper proposes a mechanism that predicts the amount of water that can be made available for consumption, distribution, storage of Agriculture, Domestic, Industrial purposes. This mechanism takes into consideration four important factors – current population, current water levels from water reserves, amount of rainfall, amount of water currently consumed. By this mechanism, it will be possible to make predictions as to, how much water should be made available based on the available statistics.

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**Index Terms**

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