

# WATER EFFICIENCY PERFORMANCE ASSESSMENTS



GEA is an expert water resource consulting firm specializing in conducting water efficiency assessments to facilitate high levels of performance in the handling, use, treatment, and distribution of water within industrial, utility, commercial and institutional facilities. GEA is a licensed, professional engineering firm, with the tools and computerized models needed to assess complex systems.



## Historical Perspective:

The vast majority of water handling and treatment equipment was built during the period from 1960 to the 1980's and has a poor standard of water performance. Facilities were constructed in conditions of very low water cost, where traditional inefficient systems and equipment were provided with less than optimal operation and maintenance routines. As energy, and chemical costs increased over the past 15 years, the cost of delivered water has skyrocketed and water system losses became significant. The cost of wastewater disposal has increased as well. The advent of newer technologies including membranes, energy recovery devices, monitoring and

automation instrumentation, leak sensing, and reduction equipment has provided the means to realize significant cost savings through improved performance. These enhanced performance improvements and cost savings can be realized through economically viable water efficiency investments and operational modifications.



## The GEA Expert Water Team of Professionals aims to foster improvements in water efficiency through a program of:

- Waste Efficiency Performance Assessments & Surveys (Audits)
- Wastewater Generation & Disposal Cost
- Production of a Facility's Water Circulation Interactive Flow Network and Dynamic Mass Balance
- Independent Investigation of True Cost Water Use (Actual Costs)
- Cost Benefit Analysis of Water Efficiency Improvement Opportunities
- Development of Water Efficiency Guidelines for Corporate Management and Facility Operations
- Implementation of Water Efficiency Monitoring and Continuous Assessment
- Water Efficiency Management Training

## Targeted Industries:

<i>Electrical Utilities</i>	<i>Pharmaceutical Plants</i>
<i>Cooling Towers</i>	<i>Food/Beverage Plants</i>
<i>Water Plants</i>	<i>Hospitals</i>
<i>Schools/Universities</i>	<i>Wastewater Plants</i>
<i>Textile Manufacturers</i>	<i>Paper Companies</i>
<i>Electronic Manufacturers</i>	<i>Chemical Manufacturers</i>
<i>Agriculture</i>	<i>Power Plants</i>

### The GEA Group:

- GEA Water Solutions
- GEA Engineering, P.C.
- GEA Environ. Cons., INC
- GEA Green Tech. Engr. P.C.

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