

ENERGY CONSERVATION

POTABLE WATER USE REDUCTION

WASTE DISCHARGE REDUCTION

REPLACEMENT OF POTABLE WATER
WITH RECYCLED WATER

WATER & SEWER COST SAVINGS

INDUSTRIAL WATER CONSERVATION *services*

CHEMICAL DISCHARGE ELIMINATION

ENVIRONMENTAL FOOTPRINT REDUCTION

WATER FOOTPRINT REDUCTION

CARBON FOOTPRINT REDUCTION

NATURAL GREEN CHEMISTRY

As part of the continued advancement of sustainable engineering practices, RBF Consulting (RBF) has developed state of the art practices in Industrial Water Conservation.

RBF's Water Resources engineers have designed cooling towers using a patented green technology that increases the cycle of concentration to achieve almost zero blowdown. This technology significantly reduces water consumption, completely eliminates the use of chemicals, and negates issues related to the use of reclaimed water as makeup water in the cooling system.

Using this innovative technology, RBF's designers have proven to be eligible for Leadership in Energy and Environmental Design (LEED) certification points, as they reduce the carbon footprint and water footprint of the cooling towers, and eliminate all chemicals used for the treatment of the cooling water.

The types of facilities that would benefit from this service include:

- Power Plants
- Refineries
- Chemical Processing Plants
- Petrochemical Plants
- Food Processing Facilities
- Pulp & Paper Industries
- Hospitals
- Universities, Colleges & Schools
- Commercial and Institutional Buildings
- Steel Mill Plants
- Electronic Industries
- Automotive Industries
- Pharmaceutical Industries



SERVICES:

PHASE I – PLANNING

- *Environmental Analysis*
- *Regulatory Permitting*
- *Economic Analysis*
- *Use of Reclaimed Water in Cooling Towers*
- *Alternative Water Resources for Cooling Towers*
- *Cooling Tower Water Quality Assessment*
- *Cooling Tower Chemical Consumption Reduction*
- *Water Conservation Practices for Cooling Towers*
- *Feasibility Studies / Conceptual Design*
- *Funding Application Assistance*
- *Pilot Plant Design and Operation*

PHASE II – DESIGN

- *Preliminary Design*
- *Incorporation of LEED Practices*
- *Cost Estimating*
- *Value Engineering*
- *Final Design*

PHASE III – CONSTRUCTION / OPERATION

- *Construction Management / Inspection*
- *Start-Up / Commissioning*
- *O&M Manuals / Training*
- *Optimization / Troubleshooting*



PLANNING ■ DESIGN ■ CONSTRUCTION

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