

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 – Constructions / Operation

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

Industrial Water Conservation

As part of the continued advancement of sustainable engineering practices, Michael Baker International has developed state of the art practices in Industrial Water Conservation.

Michael Baker International'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, Michael Baker International'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

