



Revolutionizing the world with AI and keeping up with the data storage demands of the future requires new innovations for water and energy. **Toepfer & Associates, PLLC** has the expertise to help guide you and the experience to back it up. Through virtually any aspect of water sourcing, treatment, discharge, and permitting, from early site due diligence through start-up and commissioning, we have you covered. Industrial pretreatment system design and permitting for locations where municipal connections are possible; environmental sourcing and discharge where municipal water is not an option. We can even extract water out of the air or help you determine if waterless cooling is feasible. For owners and developers alike, allow us to relieve the management burden by serving as your Owner's Engineer. We have worked on some of the biggest datacenters in the nation and we look forward to working on yours.

## What we do:

### **Technical Administration Services:**

- ✓ Full Project Management and Owner's Engineer services, from cradle to grave.
- ✓ Cost/ schedule estimation.
- ✓ Contract and procurement management.
- ✓ Alternatives analyses.
- ✓ Design/ engineering design change management.
- ✓ Sustainability management.
- ✓ Community impact and economic indicators assessments.
- ✓ BIM management.
- ✓ Litigation, policy, and expert witness work.
- ✓ Other advisory services as needed.

### **Environmental Services:**

- ✓ Early due diligence site investigations.
- ✓ Detailed due diligence for prioritized sites.
- ✓ Risk identification.
- ✓ Wetlands assessment.
- ✓ Water sourcing, withdrawal, and discharge permitting support.
- ✓ Utility outreach (power, fiber, water/ wastewater).
- ✓ Permitting, regulatory compliance, and utility integration.
- ✓ Water availability studies and resilience planning.

### **Water & Energy Services:**

- ✓ Full process, process mechanical water/ wastewater treatment plant design, from concept to delivery.
- ✓ Advanced treatment, filtration, and reuse systems.
- ✓ Closed-loop and zero-liquid discharge (ZLD) strategies.
- ✓ Ultrapure water (UPW) generation and distribution.
- ✓ High-precision conveyance for cleanroom processes.
- ✓ Use of reclaimed water from municipal wastewater utilities.
- ✓ Water supply (surface, groundwater, municipal grid) assessment.
- ✓ Industrial pretreatment process selection and design for municipal/ sewer discharges.
- ✓ Water/ energy use efficiency evaluations.
- ✓ Interpretation of sampling results.
- ✓ Hydraulics and water balances.
- ✓ Water treatment technology selection.
- ✓ Sludge and disposal permitting/ support.
- ✓ Conveyance system design.
- ✓ Forecasted utility demand and required infrastructure assessments.
- ✓ Site concept plans.
- ✓ Renewable power colocation options.



## Our Advocacy

- ✓ Working to change the way people think about radiation, clean water, and energy consumption.
- ✓ We support the technological growth of human innovation through the responsible use and development of artificial intelligence.
- ✓ We support legal teams who advocate for industry, providing technical reviews, undertaking academic research, and allowing the voice of science to be heard.

### Contact:

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# Where Policy Meets Progress.