For the CTX market, Aquatech has developed an efficient and reliable process to economically achieve Zero Liquid Discharge.

AquaEZ™ technology is an optimized integrated process utilizing High Efficiency Reverse Osmosis, Evaporation & Crystallization technologies resulting in the lowest Life Cycle Cost for such systems for the CTX industry.

CTX wastewater streams have high scaling and fouling potential due to the presence of hardness, organic species, ammonia, silica, and other impurities. The periodic variation in the characteristics of the wastewater poses further challenges in achieving consistent performance of the treatment system.

AquaEZ™ provides a robust and reliable treatment technology for this complex application. The system generates high quality water which can be reused in the process and Mixed Salts which can either be landfilled, eliminating any liquid discharge from the plant or can be further processed to produce reusable salts of desired purity.

**Solutions**
Zero Liquid Discharge  
Wastewater Treatment  
Recycle & Reuse

**Applications**
Coal to Chemicals  
Liquid Waste
AquaEZ™ Advantages

- Lower Capital Cost
- Lower Operating Cost
- Recovery of reusable salts of desired purity
- Bulk pre-concentration through membrane system thus a smaller thermal system
- Ease of operation
- Higher availability
- No Mechanical Cleaning of the evaporator system

China CTX
To reduce its carbon and water footprint, and to ensure statutory compliance, Shenhua Coal Oil Chemical Co. Ltd implemented a project to construct a system to recycle water from wastewater generated by the plant and eliminate waste water discharge (ZLD). Shenhua Xinjiang selected Aquatech to design, engineer, and supply the wastewater recycle and ZLD system, and to supervise installation and commissioning.