



**Dianchi Lake Protection Bureau, Kunming
 Kunming Urban Planning and Design Institute
 City Partnership Kunming –Zürich,
 Entsorgung und Recycling Zürich (ERZ) / SDC
 WWTPs No. 1 bis 7, Kunming
 Yunnan (China)**

Project description

Optimization, retrofit and expansion of six large municipal wastewater treatment plants, as well as new construction of an additional plant for enhanced nutrient removal to minimize pollution and eutrophication in rivers open channels and Dianchi Lake. Mechanical treatment unit, biological treatment with nitrification denitrification and biological phosphorous elimination, additional filtration unit and disinfection with UV or chlorination. Sludge treatment with dewatering units. Feasibility study for centralized sludge treatment and disposal units. Present wastewater flow is 550'000 m3/d and in future 990'000 m3/d.

- Location: Kunming Yunnan (China)
- Duration: Retrofit and expansion until 2015
- Total Costs: around 700 Mio EUR

Highlights

- Retrofit and expansion of the treatment works with enhanced nutrient removal.
- Environmental impact analysis for several effluent standards.
- Advanced treatment with coagulation flocculation, filtration and disinfection.

Our services

- Consulting, expertise and technical project appraisal, analysis of wastewater sector, present operational state.
- Evaluation of project alternatives within the City Partnership Kunming–Zürich and SDC.
- Expert for wastewater and sludge treatment, process engineering and project development.



Biological treatment unit (Bardenpho) WWTP No. 1



Biological treatment unit (ICEAS) WWTP No. 3



Biological treatment unit (A2O) WWTP No. 5