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# Ecological Constructed Wetland





## Ecological Constructed Wetlands

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We bring you a sustainable and cost-efficient solution to water pollution, river remediation and wastewater treatment in a cost-effective, energy-efficient and environmentally friendly manner. The technology has a wide range of benefits over both traditional and modern techniques.

These systems are applicable in municipalities, communities, resorts, local regions, reservoirs, polluted rivers and estates.



## Background\_\_

Constructed Wetlands are generally constructed and controlled wetlands that simulate the functions and characteristics of natural wetlands. The system employs artificial substrate like gravels, aquatic plants and microorganisms as the main components of constructed wetland, thereby creating a unique “soil-plant microorganism” ecosystem.

The main mechanism of a constructed wetland technology includes: using the physical, chemical and biological synergism of substrate, aquatic plants and microorganisms in the system, the efficient purification of wastewater through substrate filtration, adsorption, precipitation, ion exchange, plant absorption and microbial decomposition.

Our recipe and designs of the ecologically constructed wetlands add special multipurpose functions suitable for clients benefits and satisfaction. We aim to serve our clients with value for their money while they contribute to environmental sustainability and protection.

## Why do you need our constructed wetlands —

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### · LOW INVESTMENT, LOW CONSTRUCTION AND OPERATION COST

The construction of ecological wetland can significantly reduce the investment cost and increase the ecological (and recreational) benefits at the same time (which could become a source of income).

### · THE ECOLOGY AND DIVERSITY OF POLLUTANT TREATMENT

The combined system increases the function of ecological water purification. Adopts the combination of the traditional sewage treatment process and modern ecological treatment technology with the concept of ecology, environmental protection and landscape.

### · HIGH EFFICIENCY OF SEWAGE TREATMENT

Improve the quality of tailwater that meets EPA standards.

### · RECLAIMED WATER

Tailwater leaving the wetland system can meet the standards of reclaimed water reuse and can be reused within the facility, pumped to other areas or discharged into nearby water bodies.

### · MULTIPURPOSE FUNCTION

The site can be designed into a multipurpose system which can include buildings such as hotels, apartments, restaurants, conference rooms, recreational areas and many others.

### · UNIQUE FUNCTION OF THE GREENING & ECOLOGICAL ENVIRONMENT

Improve the surrounding ecological environment



## Our mechanism and projects —

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Depending on client demands, we design an ecological site with recreational activities, multifunctional buildings, restaurants, hotels, conference room, etc.

