**Waste and Waste Water**

**(WT06)**



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| **Fact Sheet WT06: Clean and disinfect artificial lakes** | |
| **Overview** | |
| *Objective* | Clean and disinfect water in artificial lakes from algae and bacteria |
| *Action* | Install chemical dosing unit for all artificial lakes |
| *Key Challenges* | High rate of chemicals consumption due to the huge areas of the artificial lakes. |
| **Process** | |
| *Complexity* | Low – chemical dosing unit |
| *Equipment & Material* | Holding tanks, dosing pumps and disinfection chemicals |
| *Human Resources* | Maintenance technicians in house team or a professional swimming pool water treatment companies |
| **Considerations** | |
| *Regulatory Aspects* | None |
| *Economic* | Low CAPEX, Moderate OPEX, Moderate savings, Moderate payback |
| *Advantages* | Decrease fresh water consumption, fresh water is used only to recover 1% of evaporation |
| *Disadvantages* | Continuous monitoring of the water quality. |
| **Impacts** | |
| *Environmental* | Decrease the amount of fresh water used |
| *Employment Opportunities* | Moderate – technical labors |