**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 |